

Report To :

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Report Date : September 28, 2020

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Brock Bradford

Analytical Services Branch Head

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Sample No. : 296663
Sample Description : SWQ25-1
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	149 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	0.00 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	0.00 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	149 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	0.00 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.3	mg/L		5/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.3 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	12.9 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		5/2/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	4 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	49.0 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	344 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.35 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	208 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	54.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	262 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	12.3 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	13.2 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.003698 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.002560 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.027331 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.00678 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	0.000031 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	28.393 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00122 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.002609 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	0.44405 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.000254 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	15.772 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.04088 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.002733 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.1874	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	8.415 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00029 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	7.706 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.000322 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.02572 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	70.9	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	136	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	7.01 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	193.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	32.8	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	13.0	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	45.8	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	14.000	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0042	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000150	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00295	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0276	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.0420	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000013	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	30.7000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00014	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00026	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00191	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	159.4	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.0950	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000096	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.0190	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	20.1000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.0616	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.000536	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.00214	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.184	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	9.1900	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0008	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000188	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	4.2700	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	8.9400	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.1220	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	2.0700	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00097	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00063	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.000669	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00232	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0037	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00043	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	4.82	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	3	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	1	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	365	MPN/100mL	5/19/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	0.062 ± 6.8%	mg/L	5/29/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.006 ± 7.8%	mg/L	5/29/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.140 ± 7.5%	mg/L	5/29/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	158.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.03	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Sample No. : 296664
Sample Description : SWQ25-12
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	152 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	152 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		5/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	17.1 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		5/2/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	NRISD				COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	38.0 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	372 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.30 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	206 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	40.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	246 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	11.1 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	11.6 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.002776 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.002985 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.028344 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.00819 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	30.750 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00035 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.001490 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	0.35231 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.000087 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	16.797 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.04562 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.002493 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.2394	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	8.964 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	9.718 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.000327 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.01131 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	76.8	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	146	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.47 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	189.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	31.8	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	11.7	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	43.5	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	17.900	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0042	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000140	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00337	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0291	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.0820	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	32.1000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00016	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00034	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00096	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	165.0	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.1870	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000055	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.0225	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	20.6000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.0652	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.000514	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.00233	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.226	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	9.2100	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0008	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000147	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	3.8300	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	11.8000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.1230	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	3.0900	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00085	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00056	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.000738	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00262	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0039	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00046	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	5.96	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	411	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	308	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	770	MPN/100mL	5/19/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	0.221 ± 6.8%	mg/L	5/29/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.003 ± 7.8%	mg/L	5/29/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.182 ± 7.5%	mg/L	5/29/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	155.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.03	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Sample No. : 296665
Sample Description : SWQ25-2
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	252 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	252 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	2.1	mg/L		5/30/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	3.0 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	51.0 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	54.7 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	13 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	154 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	741 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.76 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	424 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	252.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	676 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	20.0 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	21.9 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.002276 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.004035 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.072801 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.10596 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	0.001283 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	30.742 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00407 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.003813 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	2.2086 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.001409 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	26.728 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.24750 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.011046 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.8536	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	15.795 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00039 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	32.121 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.002270 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.02787 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	76.8	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	187	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	12.60 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	306.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	52.9	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	18.3	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	71.3	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	60.600	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0023	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000210	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00540	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0482	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.1590	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000400	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	45.1000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00042	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00066	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00117	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	297.1	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.0820	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000102	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.0495	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	44.8000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.0611	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.001400	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.00781	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.391	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	22.9000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0017	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000370	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	0.4150	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	39.4000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.2470	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	15.7000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00056	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00052	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.002320	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00356	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0057	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00079	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	43.70	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	17	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	3	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	461	MPN/100mL	5/19/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	0.026 ± 6.8%	mg/L	5/30/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.863 ± 7.8%	mg/L	5/30/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.283 ± 7.5%	mg/L	5/30/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	251.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.08	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	0.0010	mg/L	6/24/2020	ALS
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Sample No. : 296666
Sample Description : SWQ25-16
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	242 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	242 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.049 ± 16.9%	mg/L		5/7/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.123 ± 7.8%	mg/L		5/7/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		5/7/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	3.0	mg/L		5/7/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	3.1 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	90.0 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	21.0 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	24 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	126 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	821 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.52 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	457 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	173.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	630 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	16.7 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	23.4 ± 13%	mg/L		5/4/2020	COW_ASB

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	0.002065 ± 9.2%	mg/L	5/12/2020	COW_ASB
Arsenic (As), total in water	0.003178 ± 8.1%	mg/L	5/12/2020	COW_ASB
Barium (Ba), total in water	0.064754 ± 11.8%	mg/L	5/12/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.06200 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	0.000008 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	49.487 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00157 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.003164 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	0.92300 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.000688 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	31.215 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.18360 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.005694 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.6256	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	14.393 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00027 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	48.021 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.002951 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.01987 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	124	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	252	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	41.70 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	309.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	52.8	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	16.8	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	69.5	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	113.000	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0021	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000270	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00293	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Barium (Ba), dissolved in water	0.0997	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS
Boron (B), dissolved in water	0.1010	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000005	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	98.7000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00035	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00090	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00174	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	601.4	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.6440	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000051	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.0586	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	86.2000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.6900	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.000910	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.00460	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.217	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	16.3000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0012	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000449	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	1.6400	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	73.0000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.4000	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	48.1000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00087	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.002860	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00274	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0047	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00055	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in Water by IC

Sulfate in water by IC	26.90	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	25	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	19	MPN/100mL	5/19/2020	ALS
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Total Coliforms by QT97	>2420	MPN/100mL	5/19/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	253.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.05	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	0.0015	mg/L	6/24/2020	ALS
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Sample No. : 296667
Sample Description : SWQ25-6
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	2180 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	2180 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	301	mg/L		5/30/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	301 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	747 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	501 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	83 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	1070 ± 6.1%	mg/L		5/5/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6610 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.12 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3680 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	396.0	mg/L		5/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	4070 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	299 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	340.3 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.021021 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.27211 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	7.8479 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	0.000036 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	138.91 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.06634 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.014605 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	2.2068 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.002862 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	201.09 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.23776 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.14652 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	2.2576	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	164.07 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00660 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	670.19 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.002678 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.04422 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	347	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	1170	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	149.00 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	2570.00	mg/L	5/20/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/20/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/20/2020	ALS
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Carbons

Dissolved Inorganic Carbon	403.0	mg/L	5/20/2020	ALS
Dissolved Organic Carbon	382.0	mg/L	5/20/2020	ALS
Total Dissolved Carbon by Calculation	784.0	mg/L	5/20/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	807.000	mg/L	5/20/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0779	mg/L	5/20/2020	ALS
Antimony (Sb), dissolved in water	0.000520	mg/L	5/20/2020	ALS
Arsenic (As), dissolved in water	0.03100	mg/L	5/20/2020	ALS
Barium (Ba), dissolved in water	0.2940	mg/L	5/20/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/20/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/20/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	9.8200	mg/L	5/20/2020	ALS
Cadmium (Cd), dissolved in water	0.000033	mg/L	5/20/2020	ALS
Calcium (Ca), dissolved in water	43.8000	mg/L	5/20/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/20/2020	ALS
Chromium (Cr), dissolved in water	0.06150	mg/L	5/20/2020	ALS
Cobalt (Co), dissolved in water	0.02110	mg/L	5/20/2020	ALS
Copper (Cu), dissolved in water	0.00392	mg/L	5/20/2020	ALS
Hardness dissolved in water, calculated	1143.0	mg/L	5/20/2020	ALS
Iron (Fe), dissolved in water	1.1600	mg/L	5/20/2020	ALS
Lead (Pb), dissolved in water	0.000417	mg/L	5/20/2020	ALS
Lithium (Li), dissolved in water	0.1390	mg/L	5/20/2020	ALS
Magnesium (Mg), dissolved in water	251.0000	mg/L	5/20/2020	ALS
Manganese (Mn), dissolved in water	0.3380	mg/L	5/20/2020	ALS
Molybdenum (Mo), dissolved in water	0.001180	mg/L	5/20/2020	ALS
Nickel (Ni), dissolved in water	0.13500	mg/L	5/20/2020	ALS
Phosphorus (P), dissolved in water	1.410	mg/L	5/20/2020	ALS
Potassium (K), dissolved in water	181.0000	mg/L	5/20/2020	ALS
Rubidium (Rb), dissolved in water	0.0345	mg/L	5/20/2020	ALS
Selenium (Se), dissolved in water	0.002160	mg/L	5/20/2020	ALS
Silicon (Si), dissolved in water	16.2000	mg/L	5/20/2020	ALS
Silver (Ag), dissolved in water	0.000029	mg/L	5/20/2020	ALS
Sodium (Na), dissolved in water	772.0000	mg/L	5/20/2020	ALS
Strontium (Sr), dissolved in water	0.9090	mg/L	5/20/2020	ALS
Sulfur (S), dissolved in water	80.4000	mg/L	5/20/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/20/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/20/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/20/2020	ALS
Tin (Sn), dissolved in water	0.00073	mg/L	5/20/2020	ALS
Titanium (Ti), dissolved in water	0.04750	mg/L	5/20/2020	ALS
Tungsten (W), dissolved in water	0.00056	mg/L	5/20/2020	ALS
Uranium (U), dissolved in water	0.001400	mg/L	5/20/2020	ALS
Vanadium (V), dissolved in water	0.02430	mg/L	5/20/2020	ALS
Zinc (Zn), dissolved in water	0.0158	mg/L	5/20/2020	ALS
Zirconium (Zr), dissolved in water	0.00844	mg/L	5/20/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/20/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/20/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	187.00	mg/L	5/20/2020	ALS
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Fecal coliforms, 1:10 dilution by QT97

Fecal Coliforms, 1:10 dilution by QT97	2610	MPN/100mL	5/20/2020	ALS
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Total and E. coli, 1:10 dilution by QT97

Escherichia Coliform by QT97	2380	MPN/100mL	6/24/2020	ALS
Total Coliforms by QT97	24200	MPN/100mL	6/24/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	147 ± 6.8%	mg/L	5/30/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	5/30/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.614 ± 7.5%	mg/L	5/30/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	2110.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	175.00	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	0.00067	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	0.0105	mg/L	6/24/2020	ALS
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Sample No. : 296668
Sample Description : SWQ25-7
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	214 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	48.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	262 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	24.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	2.5	mg/L		5/30/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	2.5 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	148 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	244 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	13 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	109 ± 6.1%	mg/L		5/5/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1360 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.94 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	856 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	154.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1010 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	33.5 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	34.7 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001541 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.005549 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.043655 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.07812 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	67.533 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00054 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.002992 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	0.24934 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.000153 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	71.934 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.15647 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.009806 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.5672	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	42.525 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00041 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	80.732 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.005048 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.01220 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	169	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	465	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	11.40 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	279.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	24.20	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	54.7	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	30.0	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	84.7	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	164.000	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0042	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000340	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00655	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0462	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.2210	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	72.2000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00024	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00117	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00175	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	535.7	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.0330	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.0928	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	86.3000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.1740	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.003710	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.00891	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.416	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	44.8000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0023	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000389	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	3.8100	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	91.5000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.4760	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	76.5000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00023	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00087	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	0.00014	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.005380	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00385	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0018	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00084	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	227.00	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	19	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	10	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	118	MPN/100mL	5/19/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	0.108 ± 6.8%	mg/L	5/30/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	5/30/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.286 ± 7.5%	mg/L	5/30/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	269.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.08	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	0.0018	mg/L	6/24/2020	ALS
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Sample No. : 296669
Sample Description : SWQ25-8
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	418 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	418 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	15.2	mg/L		5/30/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	15.2 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	184 ± 6%	mg/L		5/10/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	158 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	11 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	265 ± 6.1%	mg/L		5/5/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1670 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.99 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1110 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	270.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1380 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	75.2 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	78.5 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000557 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.004208 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.086793 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.20370 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	0.000083 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	38.379 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00650 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.007076 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	2.4812 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.003404 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	36.000 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.15068 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.026388 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	1.3860	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	189.05 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00059 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	52.586 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.004378 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.03010 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	95.8	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	244	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	63.40 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	544.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	86.4	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	78.9	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	165.0	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	185.000	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0168	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000370	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00847	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0577	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.3180	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000014	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	69.9000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00125	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00408	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00420	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	508.1	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.4270	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000435	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.1130	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	81.0000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.4570	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.003000	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.02200	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	2.460	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	211.0000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0183	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000659	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	7.3600	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	0.000011	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	60.7000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.4280	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	45.9000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00012	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00428	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	0.00012	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.004540	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00567	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0061	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00380	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	126.00	mg/L	5/19/2020	ALS
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Fecal coliforms, 1:10 dilution by QT97

Fecal Coliforms, 1:10 dilution by QT97	140	MPN/100mL	5/19/2020	ALS
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Total and E. coli, 1:10 dilution by QT97

Escherichia Coliform by QT97	20	MPN/100mL	6/24/2020	ALS
Total Coliforms by QT97	370	MPN/100mL	6/24/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	6.25 ± 6.8%	mg/L	5/30/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.027 ± 7.8%	mg/L	5/30/2020	COW_ASB
Phosphorus, dissolved (0.45um)	2.17 ± 7.5%	mg/L	5/30/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	446.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	7.80	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	0.0038	mg/L	6/24/2020	ALS
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Sample No. : 296670
Sample Description : SWQ25-9A
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	221 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	221 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	2.5	mg/L		5/30/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	2.5 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	38.2 ± 6%	mg/L		5/10/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	30.9 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	5 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	59.0 ± 6.1%	mg/L		5/5/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	584 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.61 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	315 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	87.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	402 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	15.9 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	16.5 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001761 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.002563 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.049854 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.03057 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	37.125 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00124 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.002972 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	0.82764 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.000455 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	25.212 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.13035 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.004640 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.4196	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	12.147 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	17.808 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.001588 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.01364 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	92.7	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	197	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	16.90 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	279.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	46.8	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	16.4	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	63.3	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	38.500	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0529	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000150	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00328	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0476	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.0790	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000010	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	45.4000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00027	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00057	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00108	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	257.5	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.1170	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000101	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.0397	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	35.0000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.1780	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.000862	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.00391	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.428	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	14.2000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0014	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000232	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	4.8900	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	20.5000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.2100	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	9.1900	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00033	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00287	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.001840	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00417	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0048	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00081	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	26.00	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	>2420	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	1550	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	>2420	MPN/100mL	5/19/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	1.85 ± 6.8%	mg/L	5/30/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.015 ± 7.8%	mg/L	5/30/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.325 ± 7.5%	mg/L	5/30/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	228.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	2.00	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Sample No. : 296671
Sample Description : SWQ25-9B
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	193 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	193 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	3.0	mg/L		5/30/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	3.1 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	27.4 ± 6%	mg/L		5/10/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	23.7 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	6 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	58.0 ± 6.1%	mg/L		5/5/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	498 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.59 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	265 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	85.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	350 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	14.1 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	15.2 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.002067 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.002677 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.042597 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.02418 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	34.500 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00084 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.001897 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	0.72124 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.000214 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	21.325 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.16337 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.003994 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.5108	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	12.600 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	13.402 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.001379 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.01143 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	86.1	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	174	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	14.00 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	242.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	40.8	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	13.2	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	54.0	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	27.300	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0371	mg/L	5/20/2020	ALS
Antimony (Sb), dissolved in water	0.000130	mg/L	5/20/2020	ALS
Arsenic (As), dissolved in water	0.00325	mg/L	5/20/2020	ALS
Barium (Ba), dissolved in water	0.0405	mg/L	5/20/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/20/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/20/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.0480	mg/L	5/20/2020	ALS
Cadmium (Cd), dissolved in water	0.000006	mg/L	5/20/2020	ALS
Calcium (Ca), dissolved in water	37.3000	mg/L	5/20/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/20/2020	ALS
Chromium (Cr), dissolved in water	0.00020	mg/L	5/20/2020	ALS
Cobalt (Co), dissolved in water	0.00054	mg/L	5/20/2020	ALS
Copper (Cu), dissolved in water	0.00077	mg/L	5/20/2020	ALS
Hardness dissolved in water, calculated	206.4	mg/L	5/20/2020	ALS
Iron (Fe), dissolved in water	0.1540	mg/L	5/20/2020	ALS
Lead (Pb), dissolved in water	0.000073	mg/L	5/20/2020	ALS
Lithium (Li), dissolved in water	0.0315	mg/L	5/20/2020	ALS
Magnesium (Mg), dissolved in water	27.5000	mg/L	5/20/2020	ALS
Manganese (Mn), dissolved in water	0.2290	mg/L	5/20/2020	ALS
Molybdenum (Mo), dissolved in water	0.000770	mg/L	5/20/2020	ALS
Nickel (Ni), dissolved in water	0.00344	mg/L	5/20/2020	ALS
Phosphorus (P), dissolved in water	0.489	mg/L	5/20/2020	ALS
Potassium (K), dissolved in water	14.3000	mg/L	5/20/2020	ALS
Rubidium (Rb), dissolved in water	0.0014	mg/L	5/20/2020	ALS
Selenium (Se), dissolved in water	0.000259	mg/L	5/20/2020	ALS
Silicon (Si), dissolved in water	5.5100	mg/L	5/20/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/20/2020	ALS
Sodium (Na), dissolved in water	15.3000	mg/L	5/20/2020	ALS
Strontium (Sr), dissolved in water	0.1700	mg/L	5/20/2020	ALS
Sulfur (S), dissolved in water	6.7300	mg/L	5/20/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/20/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/20/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/20/2020	ALS
Tin (Sn), dissolved in water	0.00040	mg/L	5/20/2020	ALS
Titanium (Ti), dissolved in water	0.00225	mg/L	5/20/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/20/2020	ALS
Uranium (U), dissolved in water	0.001240	mg/L	5/20/2020	ALS
Vanadium (V), dissolved in water	0.00381	mg/L	5/20/2020	ALS
Zinc (Zn), dissolved in water	0.0033	mg/L	5/20/2020	ALS
Zirconium (Zr), dissolved in water	0.00062	mg/L	5/20/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	21.90	mg/L	5/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	21	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	8	MPN/100mL	5/20/2020	ALS
Total Coliforms by QT97	272	MPN/100mL	5/20/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	2.22 ± 6.8%	mg/L	5/30/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.029 ± 7.8%	mg/L	5/30/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.357 ± 7.5%	mg/L	5/30/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	198.00	mg/L	6/25/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	2.23	mg/L	6/25/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/25/2020	ALS
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Sample No. : 296672
Sample Description : SWQ25-11A
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	627 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	21.9 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	649 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	11.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	24.9	mg/L		5/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	25.0 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	243 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	124 ± 10%	mg/L		5/2/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	42 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	300 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2100 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.30 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1260 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	376.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1640 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	60.4 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	67.1 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001597 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.006648 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.12341 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.72465 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	0.000049 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	38.851 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00955 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.005499 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	2.1569 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.002412 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	64.307 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.13331 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.046533 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.8297	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	40.269 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00076 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	171.87 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.007969 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.03053 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	97.0	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	362	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	47.20 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	831.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	130.0	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	64.5	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	194.0	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	262.000	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0134	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000700	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.01330	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0811	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.9390	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000027	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	55.2000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00302	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00595	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00335	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	673.2	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.0760	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000259	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.1330	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	130.0000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.1200	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.004900	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.04220	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.459	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	71.3000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0060	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000611	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	6.8500	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	0.000015	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	191.0000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.6120	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	46.0000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00023	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00217	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	0.00046	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.007910	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.01060	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0070	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00573	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	119.00	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	>2420	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	1550	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	>2420	MPN/100mL	5/19/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	15.6 ± 6.8%	mg/L	5/29/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.071 ± 7.8%	mg/L	5/29/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.249 ± 7.5%	mg/L	5/29/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	681.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	16.50	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	0.0026	mg/L	6/24/2020	ALS
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Sample No. : 296673
Sample Description : SWQ25-11B
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	571 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	27.5 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	598 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	13.8 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	20.5	mg/L		5/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	20.6 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	222 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	137 ± 10%	mg/L		5/2/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	17 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	265 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2060 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.37 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1220 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	209.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1430 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	57.7 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	61.7 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001055 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.008729 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.085656 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.66637 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	0.000019 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	55.860 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00355 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.004489 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	0.66656 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.000683 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	92.405 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.15894 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.036316 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	1.3247	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	66.269 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00097 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	144.37 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.007467 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.01850 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	140	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	520	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	30.60 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	727.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	11.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	123.0	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	64.8	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	188.0	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	244.000	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0072	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000620	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.01200	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0640	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.8800	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000017	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	60.3000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00262	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00435	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00241	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	673.6	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.0690	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000127	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.1520	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	127.0000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.0901	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.004760	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.03600	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.869	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	73.3000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0060	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000491	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	7.5700	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	0.000011	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	184.0000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.5520	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	53.4000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00016	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00243	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	0.00041	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.007500	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00809	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0047	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00416	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	128.00	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	118	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	75	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	961	MPN/100mL	5/19/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	11.9 ± 6.8%	mg/L	5/29/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.041 ± 7.8%	mg/L	5/29/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.639 ± 7.5%	mg/L	5/29/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	615.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	12.50	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	0.0028	mg/L	6/24/2020	ALS
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Sample No. : 296674
Sample Description : SWQ25-11C
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	641 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	44.2 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	685 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	22.1 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	14.2	mg/L		5/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	14.2 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	277 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	57.0 ± 10%	mg/L		5/2/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	98 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	820 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2280 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.51 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1530 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	3892	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5420 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	11.0 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	96.4 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.008604 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.13344 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.56763 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	77.005 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00672 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.018681 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	3.2114 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.002940 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	113.04 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.38970 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.038719 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	7.3922	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	97.905 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00135 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	180.31 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.006822 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.08285 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	192	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	658	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	89.70 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	839.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	14.40	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	140.0	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	58.2	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	198.0	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	331.000	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0108	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000690	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.01320	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0579	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.8390	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000027	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	58.4000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	0.000012	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00229	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00380	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00278	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	644.1	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.0680	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000157	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.1420	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	121.0000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.1560	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.004940	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.03260	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.911	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	70.8000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0057	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000529	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	7.9600	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	0.000013	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	170.0000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.5290	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	50.2000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00017	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00227	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	0.00039	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.007010	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00705	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0043	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00370	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	91.20	mg/L	5/19/2020	ALS
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Fecal coliforms, 1:10 dilution by QT97

Fecal Coliforms, 1:10 dilution by QT97	50	MPN/100mL	5/19/2020	ALS
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Total and E. coli, 1:10 dilution by QT97

Escherichia Coliform by QT97	10	MPN/100mL	6/24/2020	ALS
Total Coliforms by QT97	>24200	MPN/100mL	6/24/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	2.33 ± 6.8%	mg/L	5/29/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	5/29/2020	COW_ASB
Phosphorus, dissolved (0.45um)	1.43 ± 7.5%	mg/L	5/29/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	712.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	3.05	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	0.0043	mg/L	6/24/2020	ALS
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Sample No. : 296675
Sample Description : SWQ25-13A
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	148 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	148 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		5/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	18.3 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2.6 ± 10%	mg/L		5/2/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	NRISD				COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	39.0 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	364 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.31 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	199 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	41.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	240 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	10.2 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	11.5 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001075 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.002421 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.027548 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.01312 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	29.886 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00055 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.002330 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	0.45877 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.000077 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	16.333 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.01883 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.002608 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.2292	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	8.879 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00019 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	9.740 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.000337 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.01364 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	74.6	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	142	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.78 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	183.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	30.3	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	11.4	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	41.6	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	18.900	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0034	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00280	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0277	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.0640	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	31.5000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00014	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00018	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00107	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	161.0	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.1500	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.0220	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	20.0000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.0246	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.000482	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.00229	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.218	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	8.9700	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0009	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000129	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	3.5500	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	11.4000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.1200	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	3.0400	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00020	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00054	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.000727	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00331	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0024	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00041	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	6.95	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	47	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	59	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	308	MPN/100mL	5/19/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	0.018 ± 6.8%	mg/L	5/29/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.003 ± 7.8%	mg/L	5/29/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.175 ± 7.5%	mg/L	5/29/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	150.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.05	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Sample No. : 296676
Sample Description : SWQ25-13B
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	157 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	157 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		5/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	32.4 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	39.5 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	NRISD				COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	43.0 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	480 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.41 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	263 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	49.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	312 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	10.4 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	11.9 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001135 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.002324 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.029503 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.01420 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	34.082 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00045 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.002088 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	0.37017 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.000122 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	22.641 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.02168 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.002469 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.1881	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	8.499 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	15.725 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.001136 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.02281 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	85.1	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	178	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	3.74 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	197.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	32.4	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	11.8	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	44.1	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	34.800	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0293	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000110	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00274	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0315	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.0600	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000008	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	37.1000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00018	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00024	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00169	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	207.9	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.1770	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000167	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.0315	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	28.0000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.0296	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.000616	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.00253	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.231	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	9.0300	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0009	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000125	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	3.5000	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	19.3000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.1560	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	12.5000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00060	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00067	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.001450	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00334	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0142	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00046	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	34.10	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	66	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	50	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	461	MPN/100mL	5/19/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	0.039 ± 6.8%	mg/L	5/29/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.006 ± 7.8%	mg/L	5/29/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.163 ± 7.5%	mg/L	5/29/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	161.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.04	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Sample No. : 296677
Sample Description : SWQ25-14A
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	216 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	216 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.8	mg/L		5/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.8 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	45.0 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	46.7 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	NRISD				COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	49.0 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	658 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.78 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	355 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	25.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	380 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	13.4 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	14.2 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.005492 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.002436 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.048514 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.02992 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	43.744 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00163 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.002916 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	0.35124 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.000332 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	31.948 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.05268 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.004977 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.1862	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	10.833 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	22.428 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.001939 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.01281 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	109	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	241	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	6.73 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	271.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	46.0	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	13.3	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	59.3	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	54.300	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0037	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000190	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00311	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0530	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.0590	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000006	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	51.8000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00016	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00043	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00157	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	299.0	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.0710	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000064	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.0483	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	41.2000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.0598	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.000961	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.00434	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.127	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	11.8000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0011	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000371	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	0.8880	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	26.6000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.2450	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	14.1000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00070	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00060	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.002340	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00315	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0075	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00061	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	40.30	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	613	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	365	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	980	MPN/100mL	5/19/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	0.333 ± 6.8%	mg/L	5/29/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.018 ± 7.8%	mg/L	5/29/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.105 ± 7.5%	mg/L	5/29/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	222.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.37	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Sample No. : 296678
Sample Description : SWQ25-14B
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	193 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	193 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	4.3	mg/L		5/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	4.3 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	19.0 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	13.9 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	18 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	120 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	490 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.66 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	261 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	163.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	424 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	14.1 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	21.9 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001382 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.002740 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.060162 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.02169 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	29.106 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00220 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.003066 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	1.6661 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.000758 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	18.158 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.20902 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.005257 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.9198	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	11.046 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00022 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	12.045 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.001073 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.01932 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	72.7	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	148	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	26.70 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	241.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	40.6	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	13.4	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	54.0	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	25.200	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0084	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000130	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00325	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0392	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.0460	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000007	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	37.7000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00016	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00056	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00121	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	203.3	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.1320	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000069	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.0296	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	26.5000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.2350	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.000867	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.00329	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.429	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	14.3000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0014	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000301	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	5.4700	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	14.4000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.1720	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	5.1000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00012	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00104	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.001240	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00372	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0026	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00059	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	13.30	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	17	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	14	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	291	MPN/100mL	5/19/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	1.86 ± 6.8%	mg/L	5/29/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.030 ± 7.8%	mg/L	5/29/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.289 ± 7.5%	mg/L	5/29/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	198.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	2.05	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Sample No. : 296679
Sample Description : SWQ25-15A
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	175 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	175 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	7.2	mg/L		5/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	7.4 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	22.0 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	23.7 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	56 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	320 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	540 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.71 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	291 ± 6.5%	mg/L		5/2/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	567.0	mg/L		5/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	858 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	14.1 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	29.4 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.003042 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.003216 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.10156 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	0.03030 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	0.000038 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	23.564 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00772 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.004202 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	3.2419 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.002827 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	15.430 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.50679 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.010448 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	1.3502	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	8.889 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	14.546 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.001204 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.04349 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	58.8	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	122	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	19.40 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	264.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	45.2	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	13.6	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	58.8	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	27.200	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0132	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000150	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00398	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0438	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.0520	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000012	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	43.0000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.00017	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00043	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00094	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	236.7	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.0800	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000055	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.0340	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	31.4000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.1040	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.000843	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.00363	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.272	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	14.5000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0016	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000355	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	0.2810	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	16.8000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.1990	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	7.9100	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00101	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.001320	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00343	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0033	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00061	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	19.60	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	1	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	5	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	435	MPN/100mL	5/19/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	0.505 ± 6.8%	mg/L	5/29/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.176 ± 7.8%	mg/L	5/29/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.206 ± 7.5%	mg/L	5/29/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	217.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.64	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Sample No. : 296680
Sample Description : SWQ25-15B
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	298 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	298 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	10.6	mg/L		5/30/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	10.9 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	54.0 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	45.6 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	252 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	1760 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	831 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.71 ± 0.07 units	units		4/28/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5770 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	20.1 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	47.4 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.009841 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.60071 ± 11.8%	mg/L		5/12/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		5/12/2020	COW_ASB
Boron (B), total in water	0.11562 ± 24.2%	mg/L		5/12/2020	COW_ASB
Cadmium (Cd), total in water	0.000887 ± 10.4%	mg/L		5/12/2020	COW_ASB
Calcium (Ca), total in water	38.627 ± 20.9%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Chromium (Cr), total in water	0.06712 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.024890 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	20.953 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.035294 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	26.467 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	4.9023 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.076410 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	3.4574	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	12.921 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00085 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	34.105 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.002188 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.32810 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	96.5	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	205	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	119.00 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	351.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	59.0	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	19.8	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	78.8	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	75.000	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0034	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000210	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00521	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0487	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS
Boron (B), dissolved in water	0.1390	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000012	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	46.6000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Chromium (Cr), dissolved in water	0.00041	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00090	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00112	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	302.9	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.0830	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.0479	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	45.3000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.1320	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.001350	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.00742	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.411	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	21.7000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0020	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000389	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	1.1700	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	36.9000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.2590	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	13.6000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00081	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.002110	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00414	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0026	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00094	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	43.80	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	>2420	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	47	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	>2420	MPN/100mL	5/19/2020	ALS

Total Suspended Solids by Gravimetric Analysis

Total Suspended Solids by Gravimetric Analysis

Total Suspended Solids	4200 ± 8.4%	mg/L	5/3/2020	COW_ASB
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Dissolved Solids by Gravimetric Analysis

Total Dissolved Solid, calculated	1570	mg/L	5/3/2020	COW_ASB
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Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	1.63 ± 6.8%	mg/L	5/30/2020	COW_ASB
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Nitrate+Nitrite Nitrogen	0.244 ± 7.8%	mg/L	5/30/2020	COW_ASB
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Phosphorus, dissolved (0.45um)	0.340 ± 7.5%	mg/L	5/30/2020	COW_ASB
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	288.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.32	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	0.0013	mg/L	6/24/2020	ALS
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Sample No. : 296681
Sample Description : SWQ25-100
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	2240 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	0.00 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	0.00 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	2240 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	0.00 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	216	mg/L		5/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	216 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	75.0 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	206 ± 10%	mg/L		5/2/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	109 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	1120 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6580 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.01 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3590 ± 6.5%	mg/L		5/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	524.0	mg/L		5/9/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	4120 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	303 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	332.1 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.004085 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.057318 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	1.5564 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	0.000013 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	27.508 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.01333 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.003715 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	0.63969 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.000731 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	39.322 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.05980 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.029545 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.4342	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	32.171 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00113 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	605.12 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.000601 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.00876 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	68.7	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	231	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	166.00 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	2780.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	404.0	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	307.0	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	711.0	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	804.000	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0683	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.001470	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.02780	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.2880	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	0.00015	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	10.1000	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000070	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	123.0000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	0.000021	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	0.05760	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.02030	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00770	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	1361.3	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	1.2300	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.001680	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.4220	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	256.0000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.3220	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.003420	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.13200	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.976	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	177.0000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0329	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.001670	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	19.7000	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	0.000036	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	740.0000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	2.5200	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	97.2000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00183	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.04450	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	0.00144	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.003820	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.02370	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0218	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.02210	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	183.00	mg/L	5/19/2020	ALS
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Fecal coliforms, 1:10 dilution by QT97

Fecal Coliforms, 1:10 dilution by QT97	2490	MPN/100mL	5/19/2020	ALS
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Total and E. coli, 1:10 dilution by QT97

Escherichia Coliform by QT97	2360	MPN/100mL	6/24/2020	ALS
Total Coliforms by QT97	>24200	MPN/100mL	6/24/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	0.513 ± 6.8%	mg/L	5/29/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.160 ± 7.8%	mg/L	5/29/2020	COW_ASB
Phosphorus, dissolved (0.45um)	1.56 ± 7.5%	mg/L	5/29/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	2280.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	176.00	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	0.00054	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	0.0099	mg/L	6/24/2020	ALS
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Sample No. : 296682
Sample Description : SWQ25-101
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	278 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	278 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	10.5	mg/L		5/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	10.8 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	59.0 ± 6%	mg/L		5/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	47.9 ± 10%	mg/L		5/2/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	NRISD				COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	1250 ± 6.1%	mg/L		5/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	808 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.70 ± 0.07 units	units		4/28/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	6440 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	22.9 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	47.9 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	0.001958 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.11043 ± 11.8%	mg/L		5/12/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		5/12/2020	COW_ASB
Boron (B), total in water	0.02897 ± 24.2%	mg/L		5/12/2020	COW_ASB
Cadmium (Cd), total in water	0.000098 ± 10.4%	mg/L		5/12/2020	COW_ASB
Calcium (Ca), total in water	7.740 ± 20.9%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Chromium (Cr), total in water	0.01149 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.004777 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	3.7882 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	0.005522 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	5.284 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	1.1549 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.013759 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	0.7385	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	2.716 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	0.00021 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	6.603 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	0.000280 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.05631 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	19.3	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	41.1	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	330.00 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	434.00	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	62.7	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	20.6	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	83.3	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	66.100	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0098	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	0.000200	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	0.00517	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0562	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS
Boron (B), dissolved in water	0.3190	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	0.000033	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	54.1000	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Chromium (Cr), dissolved in water	0.00042	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	0.00110	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	0.00124	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	355.8	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	0.0820	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	0.000080	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	0.0605	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	53.6000	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	0.1960	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	0.001370	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	0.00852	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	0.390	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	22.2000	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	0.0018	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	0.000232	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	1.7000	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	44.1000	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	0.2930	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	18.8000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	0.00016	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	0.00077	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	0.002530	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	0.00439	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	0.0040	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	0.00094	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	38.50	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	>2420	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	>2420	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	>2420	MPN/100mL	5/19/2020	ALS

Total Suspended Solids by Gravimetric Analysis

Total Suspended Solids by Gravimetric Analysis

Total Suspended Solids	5300 ± 8.4%	mg/L	5/3/2020	COW_ASB
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Dissolved Solids by Gravimetric Analysis

Total Dissolved Solid, calculated	1140	mg/L	5/3/2020	COW_ASB
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Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	1.55 ± 6.8%	mg/L	5/29/2020	COW_ASB
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Nitrate+Nitrite Nitrogen	0.250 ± 7.8%	mg/L	5/29/2020	COW_ASB
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Phosphorus, dissolved (0.45um)	0.371 ± 7.5%	mg/L	5/29/2020	COW_ASB
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	356.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.67	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	0.0013	mg/L	6/24/2020	ALS
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Sample No. : 296683
Sample Description : SWQ25-Trip Blank
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	7.6 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	7.6 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	<0.003 ± 16.9%	mg/L		5/7/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.822 ± 7.8%	mg/L		5/7/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.403 ± 7.5%	mg/L		5/7/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		5/7/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		5/10/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		5/5/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1.5 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.46 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	10 ± 6.5%	mg/L		5/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	14.0	mg/L		5/9/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	24 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	<0.6 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	<0.1 ± 13%	mg/L		5/4/2020	COW_ASB

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	0.000988 ± 9.2%	mg/L	5/12/2020	COW_ASB
Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L	5/12/2020	COW_ASB
Barium (Ba), total in water	0.000084 ± 11.8%	mg/L	5/12/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	0.149 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.00092 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.015897 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	0.03047 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	0.010 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.00039 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.000117 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	0.032 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	0.131 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.00436 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	0.4	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	0.4	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.34 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	<1.20	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	<0.5	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	<0.5	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	<1.0	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	<0.500	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	<0.00010	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Barium (Ba), dissolved in water	<0.0001	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS
Boron (B), dissolved in water	0.0170	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	<0.0500	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	<0.1	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	<0.0010	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	<0.0050	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	<0.0001	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	<0.000050	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	<0.00050	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	<0.0500	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	<0.0002	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	<0.0500	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	<0.0500	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	<0.0001	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	<0.5000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in Water by IC

Sulfate in water by IC	<0.30	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	5/19/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	5/19/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	<1.00	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.01	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Sample No. : 296684
Sample Description : SWQ25-Field Blank
Sample Date : April 28, 2020
Sample Received : April 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, total to pH 4.5	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		4/29/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		5/30/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		5/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		5/10/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		5/9/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		5/4/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		5/5/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1.7 ± 7.2%	uS		5/2/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	5.58 ± 0.07 units	units		4/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4 ± 6.5%	mg/L		5/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	<3.0	mg/L		5/9/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	4 ± 6.2%	mg/L		4/30/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	<0.6 ± 13%	mg/L		5/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	<0.1 ± 13%	mg/L		5/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000900 ± 9.2%	mg/L		5/12/2020	COW_ASB
Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L		5/12/2020	COW_ASB
Barium (Ba), total in water	0.000377 ± 11.8%	mg/L		5/12/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/12/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L	5/12/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/12/2020	COW_ASB
Calcium (Ca), total in water	0.058 ± 20.9%	mg/L	5/12/2020	COW_ASB
Chromium (Cr), total in water	0.01102 ± 12.8%	mg/L	5/12/2020	COW_ASB
Copper (Cu), total in water	0.000731 ± 12.1%	mg/L	5/12/2020	COW_ASB
Iron (Fe), total in water	0.15276 ± 9.7%	mg/L	5/12/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	5/12/2020	COW_ASB
Magnesium (Mg), total in water	0.024 ± 10.5%	mg/L	5/12/2020	COW_ASB
Manganese (Mn), total in water	0.00134 ± 11.2%	mg/L	5/12/2020	COW_ASB
Nickel (Ni), total in water	0.000419 ± 12.2%	mg/L	5/12/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	5/12/2020	COW_ASB
Potassium (K), total in water	0.037 ± 18.3%	mg/L	5/12/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	5/12/2020	COW_ASB
Sodium (Na), total in water	0.085 ± 9.2%	mg/L	5/12/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	5/12/2020	COW_ASB
Zinc (Zn), total in water	0.01824 ± 10.7%	mg/L	5/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	<0.4	mg/L	5/20/2020	COW_ASB
Total Hardness, calculated in water	<0.4	mg/L	5/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.65 ± 4.4%	NTU	4/28/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	1.30	mg/L	5/19/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	5/19/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	5/19/2020	ALS
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Carbons

Dissolved Inorganic Carbon	<0.5	mg/L	5/19/2020	ALS
Dissolved Organic Carbon	<0.5	mg/L	5/19/2020	ALS
Total Dissolved Carbon by Calculation	<1.0	mg/L	5/19/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	<0.500	mg/L	5/19/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	5/19/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	5/19/2020	ALS
Arsenic (As), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Barium (Ba), dissolved in water	0.0001	mg/L	5/19/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	5/19/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	0.0220	mg/L	5/19/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	5/19/2020	ALS
Calcium (Ca), dissolved in water	<0.0500	mg/L	5/19/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Cobalt (Co), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Hardness dissolved in water, calculated	<0.1	mg/L	5/19/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	5/19/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	5/19/2020	ALS
Lithium (Li), dissolved in water	<0.0010	mg/L	5/19/2020	ALS
Magnesium (Mg), dissolved in water	<0.0050	mg/L	5/19/2020	ALS
Manganese (Mn), dissolved in water	<0.0001	mg/L	5/19/2020	ALS
Molybdenum (Mo), dissolved in water	<0.000050	mg/L	5/19/2020	ALS
Nickel (Ni), dissolved in water	<0.00050	mg/L	5/19/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	5/19/2020	ALS
Potassium (K), dissolved in water	<0.0500	mg/L	5/19/2020	ALS
Rubidium (Rb), dissolved in water	<0.0002	mg/L	5/19/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	5/19/2020	ALS
Silicon (Si), dissolved in water	0.0540	mg/L	5/19/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Sodium (Na), dissolved in water	<0.0500	mg/L	5/19/2020	ALS
Strontium (Sr), dissolved in water	<0.0001	mg/L	5/19/2020	ALS
Sulfur (S), dissolved in water	<0.5000	mg/L	5/19/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	5/19/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	5/19/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	5/19/2020	ALS
Uranium (U), dissolved in water	<0.000010	mg/L	5/19/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	5/19/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	5/19/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	5/19/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		5/19/2020	ALS
Mercury (Hg) dissolved in water	<0.00001	mg/L	5/19/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	<0.30	mg/L	5/19/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	5/19/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	5/19/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	5/19/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	0.123 ± 6.8%	mg/L	5/30/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.003 ± 7.8%	mg/L	5/30/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L	5/30/2020	COW_ASB

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	1.10	mg/L	6/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	<0.01	mg/L	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Sample No. : 299510
Sample Description : SWQ25-12
Sample Date : May 5, 2020
Sample Received : May 5, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		5/10/2020	COW_ASB

Sample No. : 299511
Sample Description : SWQ25-13A
Sample Date : May 5, 2020
Sample Received : May 5, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	4 ± 15%	mg/L		5/10/2020	COW_ASB

Sample No. : 299512
Sample Description : SWQ25-13B
Sample Date : May 5, 2020
Sample Received : May 5, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		5/10/2020	COW_ASB

Sample No. : 299513
Sample Description : SWQ25-14A
Sample Date : May 5, 2020
Sample Received : May 5, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	5 ± 15%	mg/L		5/10/2020	COW_ASB

Sample No. : 299514
Sample Description : SWQ25-101
Sample Date : May 5, 2020
Sample Received : May 5, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	20 ± 15%	mg/L		5/10/2020	COW_ASB

Reference Information

The Analytical Services Branch is accredited by CALA in accordance with ISO 17025 standards for specific tests.

Glossary of Terms :

NRISD : No result, insufficient seed/depletion

Accredited Test Methods Used :

Test Method

Alkalinity by Titration
 Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis
 BOD5 Seeded by Automated Method
 COD by Closed Reflux Method
 Conductivity by Electrometric Method
 Dissolved Organic Carbon by High Temperature Combustion
 Dissolved Solids by Gravimetric Analysis
 Hardness, Calcium & Total by Calculation
 Metals Total in Water by ICP-MS
 pH in Laboratory by Electrometric Method
 Total Kjeldahl Nitrogen Calculated

 Total Nitrogen by High Temperature Combustion
 Total Organic Carbon by High Temperature Combustion
 Total Solids by Gravimetric Analysis
 Total Suspended Solids by Gravimetric Analysis
 Turbidity in Laboratory by Nephelometric Method

Reference Method

Modified from SM 2320 B. Titration Method
 Modified from SM 4500-NH3 H. NO3 I & P G. Flow Injection Analysis
 Modified from SM 5210 B. 5-Day BOD Test
 Modified from SM 5220 D. Closed Reflux, Colorimetric Method
 Modified from SM 2510 B. Laboratory Measurement
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 C. Total Dissolved Solids Dried at 180°C
 Modified from EPA Methods 200.8
 Modified from EPA Methods 200.8
 Modified from SM 4500 H+B (Electrometric Method)
 Modified from SM 5310 B. High Temperature Combustion and SM 4500-NO3 I. Flow Injection Analysis
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 B. Total Solids Dried at 103-105°C
 Modified from SM 2540 D. Total Suspended Solids Dried at 103-105°C
 Modified from SM 2130 A. Turbidity & 2130 B. Nephelometric Method

Additional Test Methods Used :

Test Method

Chloride by Mercuric Thiocyanate Method
 Sulfate by HACH Method

Reference Method

Modified from SM 4500Cl-G Mercuric Thiocyanate & HACH Method 8113
 Modified from HACH Method 8051, SulfaVer 4, & SM 4500-SO4-2 E. Turbidimetric

Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4
 COW_ASB : City of Winnipeg Main Laboratory at NEWPCC, 2230 Main Street, Winnipeg, MB R2V 4T8

Additional Comments :

- 1) A quality control report can be provided upon request. These reports may contain quality control results from other samples not included in this test report.
- 2) Analytical Services Branch test methods may incorporate modifications from specified reference methods to improve performance.
- 3) For subcontracted testing, the certificate of analysis can be provided upon request.
- 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

-----**END OF REPORT**-----

Report To :

Mr. Chris KozakSolid Waste Services Division
1120 Waverley Street
Winnipeg MB R3E 3S8

Report Date : September 30, 2020

Phone : 204-986-2384

Email : ckozak@winnipeg.ca

Certificate of Analysis Job No. 522

Date Authorised : September 30, 2020

Total Number of Pages : 35

This report is issued under the authority of :

Brock Bradford

Analytical Services Branch Head

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The results relate only to the sample(s) as received by the laboratory.

Additional information regarding the test methods used by Analytical Services Branch or contract laboratory is available upon request.

Sample No. : 300206
Sample Description : SWQ36-1
Sample Date : May 14, 2020
Sample Received : May 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	230 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, total to pH 4.5	251 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	10.6 ± 2.8%	mg/L		5/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.024 ± 16.9%	mg/L		5/22/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		5/22/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.2	mg/L		5/23/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.2 ± 15%	mg/L		5/21/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	103 ± 6%	mg/L		5/17/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	73.8 ± 10%	mg/L		5/16/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	5 ± 15%	mg/L		5/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	47.0 ± 6.1%	mg/L		5/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	910 ± 7.2%	uS		5/17/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.61 ± 0.07 units	units		5/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	538 ± 6.5%	mg/L		5/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	36.0	mg/L		5/19/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	574 ± 6.2%	mg/L		5/17/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	15.5 ± 13%	mg/L		5/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	16.8 ± 13%	mg/L		5/21/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.020745 ± 9.2%	mg/L		5/26/2020	COW_ASB
Arsenic (As), total in water	0.035235 ± 8.1%	mg/L		5/26/2020	COW_ASB

Metals Total in Water by ICP-MS

Barium (Ba), total in water	0.82876 ± 11.8%	mg/L	5/26/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/26/2020	COW_ASB
Boron (B), total in water	1.6572 ± 24.2%	mg/L	5/26/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/26/2020	COW_ASB
Calcium (Ca), total in water	562.48 ± 20.9%	mg/L	5/26/2020	COW_ASB
Chromium (Cr), total in water	0.00845 ± 12.8%	mg/L	5/26/2020	COW_ASB
Copper (Cu), total in water	0.027804 ± 12.1%	mg/L	5/26/2020	COW_ASB
Iron (Fe), total in water	0.65817 ± 9.7%	mg/L	5/26/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	5/26/2020	COW_ASB
Magnesium (Mg), total in water	589.82 ± 10.5%	mg/L	5/26/2020	COW_ASB
Manganese (Mn), total in water	1.4050 ± 11.2%	mg/L	5/26/2020	COW_ASB
Nickel (Ni), total in water	0.032654 ± 12.2%	mg/L	5/26/2020	COW_ASB
Phosphorus (P), total in water	2.8531	mg/L	5/26/2020	COW_ASB
Potassium (K), total in water	154.15 ± 18.3%	mg/L	5/26/2020	COW_ASB
Selenium (Se), total in water	0.00805 ± 8.0%	mg/L	5/26/2020	COW_ASB
Sodium (Na), total in water	855.82 ± 9.2%	mg/L	5/26/2020	COW_ASB
Uranium (U), total in water	0.025667 ± 10.0%	mg/L	5/26/2020	COW_ASB
Zinc (Zn), total in water	0.13272 ± 10.7%	mg/L	5/26/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1400	mg/L	5/30/2020	COW_ASB
Total Hardness, calculated in water	3830	mg/L	5/30/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	6.55 ± 4.4%	NTU	5/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	111.000	mg/L	6/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	63.70	mg/L	6/3/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/3/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/3/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	93.100	%	6/3/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/3/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/3/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/3/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.00001	mg/L	6/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,2-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	6/3/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	6/3/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	6/3/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	6/3/2020	ALS
Surrogate: 1,4-Difluorobenzene	100.0	%	6/3/2020	ALS
Acetone	<0.050	mg/L	6/3/2020	ALS
Benzene	<0.00050	mg/L	6/3/2020	ALS
Bromodichloromethane	<0.00050	mg/L	6/3/2020	ALS
Bromoform	<0.0010	mg/L	6/3/2020	ALS
Bromomethane	<0.001	mg/L	6/3/2020	ALS
Chlorobenzene	<0.0010	mg/L	6/3/2020	ALS
Chloroethane	<0.001	mg/L	6/3/2020	ALS
Chloroform	<0.00050	mg/L	6/3/2020	ALS
Chloromethane	<0.005	mg/L	6/3/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Dibromochloromethane	<0.0005	mg/L	6/3/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	6/3/2020	ALS
Dichloromethane	<0.00500	mg/L	6/3/2020	ALS
Ethylbenzene	<0.00050	mg/L	6/3/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	6/3/2020	ALS
o-Xylene	<0.0005	mg/L	6/3/2020	ALS
Styrene	<0.0010	mg/L	6/3/2020	ALS
Toluene	<0.00050	mg/L	6/3/2020	ALS
trans-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	6/3/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/3/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	5	MPN/100mL	6/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	7	MPN/100mL	6/3/2020	ALS
Total Coliforms by QT97	238	MPN/100mL	6/3/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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Sample No. : 300207
Sample Description : SWQ36-2
Sample Date : May 14, 2020
Sample Received : May 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	215 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, total to pH 4.5	278 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	31.9 ± 2.8%	mg/L		5/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	<0.003 ± 16.9%	mg/L		5/22/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		5/22/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.6	mg/L		5/23/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.6 ± 15%	mg/L		5/21/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	89.0 ± 6%	mg/L		5/17/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	35.2 ± 10%	mg/L		5/16/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	12 ± 15%	mg/L		5/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	84.0 ± 6.1%	mg/L		5/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	827 ± 7.2%	uS		5/17/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	9.09 ± 0.07 units	units		5/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	514 ± 6.5%	mg/L		5/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	110.0	mg/L		5/19/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	624 ± 6.2%	mg/L		5/17/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	20.1 ± 13%	mg/L		5/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	21.3 ± 13%	mg/L		5/21/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.022166 ± 9.2%	mg/L		5/26/2020	COW_ASB
Arsenic (As), total in water	0.055338 ± 8.1%	mg/L		5/26/2020	COW_ASB

Metals Total in Water by ICP-MS

Barium (Ba), total in water	0.85115 ± 11.8%	mg/L	5/26/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/26/2020	COW_ASB
Boron (B), total in water	1.3502 ± 24.2%	mg/L	5/26/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/26/2020	COW_ASB
Calcium (Ca), total in water	558.45 ± 20.9%	mg/L	5/26/2020	COW_ASB
Chromium (Cr), total in water	0.02360 ± 12.8%	mg/L	5/26/2020	COW_ASB
Copper (Cu), total in water	0.048802 ± 12.1%	mg/L	5/26/2020	COW_ASB
Iron (Fe), total in water	13.526 ± 9.7%	mg/L	5/26/2020	COW_ASB
Lead (Pb), total in water	0.007218 ± 8.3%	mg/L	5/26/2020	COW_ASB
Magnesium (Mg), total in water	597.60 ± 10.5%	mg/L	5/26/2020	COW_ASB
Manganese (Mn), total in water	2.9280 ± 11.2%	mg/L	5/26/2020	COW_ASB
Nickel (Ni), total in water	0.052370 ± 12.2%	mg/L	5/26/2020	COW_ASB
Phosphorus (P), total in water	10.857	mg/L	5/26/2020	COW_ASB
Potassium (K), total in water	177.49 ± 18.3%	mg/L	5/26/2020	COW_ASB
Selenium (Se), total in water	0.00773 ± 8.0%	mg/L	5/26/2020	COW_ASB
Sodium (Na), total in water	759.18 ± 9.2%	mg/L	5/26/2020	COW_ASB
Uranium (U), total in water	0.014008 ± 10.0%	mg/L	5/26/2020	COW_ASB
Zinc (Zn), total in water	0.17338 ± 10.7%	mg/L	5/26/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1390	mg/L	5/30/2020	COW_ASB
Total Hardness, calculated in water	3860	mg/L	5/30/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	29.20 ± 4.4%	NTU	5/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	95.800	mg/L	6/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	28.50	mg/L	6/3/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/3/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/3/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	92.800	%	6/3/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/3/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/3/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/3/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.00001	mg/L	6/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,2-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	6/3/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	6/3/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	6/3/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	6/3/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.2	%	6/3/2020	ALS
Acetone	<0.050	mg/L	6/3/2020	ALS
Benzene	<0.00050	mg/L	6/3/2020	ALS
Bromodichloromethane	<0.00050	mg/L	6/3/2020	ALS
Bromoform	<0.0010	mg/L	6/3/2020	ALS
Bromomethane	<0.001	mg/L	6/3/2020	ALS
Chlorobenzene	<0.0010	mg/L	6/3/2020	ALS
Chloroethane	<0.001	mg/L	6/3/2020	ALS
Chloroform	<0.00050	mg/L	6/3/2020	ALS
Chloromethane	<0.005	mg/L	6/3/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Dibromochloromethane	<0.0005	mg/L	6/3/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	6/3/2020	ALS
Dichloromethane	<0.00500	mg/L	6/3/2020	ALS
Ethylbenzene	<0.00050	mg/L	6/3/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	6/3/2020	ALS
o-Xylene	<0.0005	mg/L	6/3/2020	ALS
Styrene	<0.0010	mg/L	6/3/2020	ALS
Toluene	<0.00050	mg/L	6/3/2020	ALS
trans-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	6/3/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/3/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	61	MPN/100mL	6/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	64	MPN/100mL	6/3/2020	ALS
Total Coliforms by QT97	249	MPN/100mL	6/3/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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Sample No. : 300208
Sample Description : SWQ36-3
Sample Date : May 14, 2020
Sample Received : May 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	268 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, total to pH 4.5	275 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	3.4 ± 2.8%	mg/L		5/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.015 ± 16.9%	mg/L		5/22/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.003 ± 7.8%	mg/L		5/22/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	2.1	mg/L		5/23/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	2.1 ± 15%	mg/L		5/21/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	88.8 ± 6%	mg/L		5/17/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	39.0 ± 10%	mg/L		5/16/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	24 ± 15%	mg/L		5/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	82.0 ± 6.1%	mg/L		5/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	843 ± 7.2%	uS		5/17/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.75 ± 0.07 units	units		5/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	484 ± 6.5%	mg/L		5/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	128.0	mg/L		5/19/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	612 ± 6.2%	mg/L		5/17/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	18.9 ± 13%	mg/L		5/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	22.5 ± 13%	mg/L		5/21/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.015339 ± 9.2%	mg/L		5/26/2020	COW_ASB
Arsenic (As), total in water	0.045538 ± 8.1%	mg/L		5/26/2020	COW_ASB

Metals Total in Water by ICP-MS

Barium (Ba), total in water	0.98225 ± 11.8%	mg/L	5/26/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/26/2020	COW_ASB
Boron (B), total in water	1.1906 ± 24.2%	mg/L	5/26/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/26/2020	COW_ASB
Calcium (Ca), total in water	510.75 ± 20.9%	mg/L	5/26/2020	COW_ASB
Chromium (Cr), total in water	0.02824 ± 12.8%	mg/L	5/26/2020	COW_ASB
Copper (Cu), total in water	0.027537 ± 12.1%	mg/L	5/26/2020	COW_ASB
Iron (Fe), total in water	5.4362 ± 9.7%	mg/L	5/26/2020	COW_ASB
Lead (Pb), total in water	0.003361 ± 8.3%	mg/L	5/26/2020	COW_ASB
Magnesium (Mg), total in water	569.21 ± 10.5%	mg/L	5/26/2020	COW_ASB
Manganese (Mn), total in water	3.6555 ± 11.2%	mg/L	5/26/2020	COW_ASB
Nickel (Ni), total in water	0.043273 ± 12.2%	mg/L	5/26/2020	COW_ASB
Phosphorus (P), total in water	8.5683	mg/L	5/26/2020	COW_ASB
Potassium (K), total in water	162.56 ± 18.3%	mg/L	5/26/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	5/26/2020	COW_ASB
Sodium (Na), total in water	723.03 ± 9.2%	mg/L	5/26/2020	COW_ASB
Uranium (U), total in water	0.014953 ± 10.0%	mg/L	5/26/2020	COW_ASB
Zinc (Zn), total in water	0.24047 ± 10.7%	mg/L	5/26/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1280	mg/L	5/26/2020	COW_ASB
Total Hardness, calculated in water	3620	mg/L	5/26/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	19.30 ± 4.4%	NTU	5/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	94.900	mg/L	6/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	33.10	mg/L	6/3/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/3/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/3/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	92.200	%	6/3/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/3/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/3/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/3/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.00001	mg/L	6/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,2-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	6/3/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	6/3/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	6/3/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	6/3/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.2	%	6/3/2020	ALS
Acetone	<0.050	mg/L	6/3/2020	ALS
Benzene	<0.00050	mg/L	6/3/2020	ALS
Bromodichloromethane	<0.00050	mg/L	6/3/2020	ALS
Bromoform	<0.0010	mg/L	6/3/2020	ALS
Bromomethane	<0.001	mg/L	6/3/2020	ALS
Chlorobenzene	<0.0010	mg/L	6/3/2020	ALS
Chloroethane	<0.001	mg/L	6/3/2020	ALS
Chloroform	<0.00050	mg/L	6/3/2020	ALS
Chloromethane	<0.005	mg/L	6/3/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Dibromochloromethane	<0.0005	mg/L	6/3/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	6/3/2020	ALS
Dichloromethane	<0.00500	mg/L	6/3/2020	ALS
Ethylbenzene	<0.00050	mg/L	6/3/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	6/3/2020	ALS
o-Xylene	<0.0005	mg/L	6/3/2020	ALS
Styrene	<0.0010	mg/L	6/3/2020	ALS
Toluene	<0.00050	mg/L	6/3/2020	ALS
trans-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	6/3/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/3/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	8	MPN/100mL	6/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	6	MPN/100mL	6/3/2020	ALS
Total Coliforms by QT97	579	MPN/100mL	6/3/2020	ALS

Sample No. : 300209
Sample Description : SWQ36-4
Sample Date : May 14, 2020
Sample Received : May 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	236 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, total to pH 4.5	255 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	9.3 ± 2.8%	mg/L		5/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	<0.003 ± 16.9%	mg/L		5/22/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		5/22/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.1	mg/L		5/23/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.1 ± 15%	mg/L		5/21/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	95.6 ± 6%	mg/L		5/17/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	56.6 ± 10%	mg/L		5/16/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	6 ± 15%	mg/L		5/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	53.0 ± 6.1%	mg/L		5/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	844 ± 7.2%	uS		5/17/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.65 ± 0.07 units	units		5/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	494 ± 6.5%	mg/L		5/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	114.0	mg/L		5/19/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	608 ± 6.2%	mg/L		5/17/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	15.8 ± 13%	mg/L		5/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	17.1 ± 13%	mg/L		5/21/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.005194 ± 9.2%	mg/L		5/26/2020	COW_ASB
Arsenic (As), total in water	0.040385 ± 8.1%	mg/L		5/26/2020	COW_ASB

Metals Total in Water by ICP-MS

Barium (Ba), total in water	0.93208 ± 11.8%	mg/L	5/26/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/26/2020	COW_ASB
Boron (B), total in water	1.4452 ± 24.2%	mg/L	5/26/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/26/2020	COW_ASB
Calcium (Ca), total in water	526.59 ± 20.9%	mg/L	5/26/2020	COW_ASB
Chromium (Cr), total in water	0.03807 ± 12.8%	mg/L	5/26/2020	COW_ASB
Copper (Cu), total in water	0.035296 ± 12.1%	mg/L	5/26/2020	COW_ASB
Iron (Fe), total in water	5.5448 ± 9.7%	mg/L	5/26/2020	COW_ASB
Lead (Pb), total in water	0.001198 ± 8.3%	mg/L	5/26/2020	COW_ASB
Magnesium (Mg), total in water	574.53 ± 10.5%	mg/L	5/26/2020	COW_ASB
Manganese (Mn), total in water	1.4989 ± 11.2%	mg/L	5/26/2020	COW_ASB
Nickel (Ni), total in water	0.043487 ± 12.2%	mg/L	5/26/2020	COW_ASB
Phosphorus (P), total in water	3.5609	mg/L	5/26/2020	COW_ASB
Potassium (K), total in water	146.43 ± 18.3%	mg/L	5/26/2020	COW_ASB
Selenium (Se), total in water	0.00281 ± 8.0%	mg/L	5/26/2020	COW_ASB
Sodium (Na), total in water	794.32 ± 9.2%	mg/L	5/26/2020	COW_ASB
Uranium (U), total in water	0.020206 ± 10.0%	mg/L	5/26/2020	COW_ASB
Zinc (Zn), total in water	0.12751 ± 10.7%	mg/L	5/26/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1310	mg/L	5/30/2020	COW_ASB
Total Hardness, calculated in water	3680	mg/L	5/30/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	27.40 ± 4.4%	NTU	5/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	102.000	mg/L	6/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	48.60	mg/L	6/3/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/3/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/3/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.600	%	6/3/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/3/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/3/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/3/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.00001	mg/L	6/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,2-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	6/3/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	6/3/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	6/3/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	6/3/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.1	%	6/3/2020	ALS
Acetone	<0.050	mg/L	6/3/2020	ALS
Benzene	<0.00050	mg/L	6/3/2020	ALS
Bromodichloromethane	<0.00050	mg/L	6/3/2020	ALS
Bromoform	<0.0010	mg/L	6/3/2020	ALS
Bromomethane	<0.001	mg/L	6/3/2020	ALS
Chlorobenzene	<0.0010	mg/L	6/3/2020	ALS
Chloroethane	<0.001	mg/L	6/3/2020	ALS
Chloroform	<0.00050	mg/L	6/3/2020	ALS
Chloromethane	<0.005	mg/L	6/3/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Dibromochloromethane	<0.0005	mg/L	6/3/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	6/3/2020	ALS
Dichloromethane	<0.00500	mg/L	6/3/2020	ALS
Ethylbenzene	<0.00050	mg/L	6/3/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	6/3/2020	ALS
o-Xylene	<0.0005	mg/L	6/3/2020	ALS
Styrene	<0.0010	mg/L	6/3/2020	ALS
Toluene	<0.00050	mg/L	6/3/2020	ALS
trans-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	6/3/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/3/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	19	MPN/100mL	6/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	13	MPN/100mL	6/3/2020	ALS
Total Coliforms by QT97	326	MPN/100mL	6/3/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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Sample No. : 300210
Sample Description : SWQ36-100
Sample Date : May 14, 2020
Sample Received : May 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	234 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, total to pH 4.5	252 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	9.0 ± 2.8%	mg/L		5/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.003 ± 16.9%	mg/L		5/22/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		5/22/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.2	mg/L		5/23/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.2 ± 15%	mg/L		5/21/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	95.4 ± 6%	mg/L		5/17/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	55.4 ± 10%	mg/L		5/16/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	6 ± 15%	mg/L		5/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	51.0 ± 6.1%	mg/L		5/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	860 ± 7.2%	uS		5/17/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.57 ± 0.07 units	units		5/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	501 ± 6.5%	mg/L		5/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	67.0	mg/L		5/19/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	568 ± 6.2%	mg/L		5/17/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	16.1 ± 13%	mg/L		5/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	17.9 ± 13%	mg/L		5/21/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.015001 ± 9.2%	mg/L		5/26/2020	COW_ASB
Arsenic (As), total in water	0.041150 ± 8.1%	mg/L		5/26/2020	COW_ASB

Metals Total in Water by ICP-MS

Barium (Ba), total in water	0.94412 ± 11.8%	mg/L	5/26/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/26/2020	COW_ASB
Boron (B), total in water	1.4425 ± 24.2%	mg/L	5/26/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/26/2020	COW_ASB
Calcium (Ca), total in water	525.06 ± 20.9%	mg/L	5/26/2020	COW_ASB
Chromium (Cr), total in water	0.01471 ± 12.8%	mg/L	5/26/2020	COW_ASB
Copper (Cu), total in water	0.029119 ± 12.1%	mg/L	5/26/2020	COW_ASB
Iron (Fe), total in water	6.8365 ± 9.7%	mg/L	5/26/2020	COW_ASB
Lead (Pb), total in water	0.001965 ± 8.3%	mg/L	5/26/2020	COW_ASB
Magnesium (Mg), total in water	553.14 ± 10.5%	mg/L	5/26/2020	COW_ASB
Manganese (Mn), total in water	1.5181 ± 11.2%	mg/L	5/26/2020	COW_ASB
Nickel (Ni), total in water	0.040886 ± 12.2%	mg/L	5/26/2020	COW_ASB
Phosphorus (P), total in water	2.9554	mg/L	5/26/2020	COW_ASB
Potassium (K), total in water	145.86 ± 18.3%	mg/L	5/26/2020	COW_ASB
Selenium (Se), total in water	0.00074 ± 8.0%	mg/L	5/26/2020	COW_ASB
Sodium (Na), total in water	764.09 ± 9.2%	mg/L	5/26/2020	COW_ASB
Uranium (U), total in water	0.020095 ± 10.0%	mg/L	5/26/2020	COW_ASB
Zinc (Zn), total in water	0.15316 ± 10.7%	mg/L	5/26/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1310	mg/L	5/30/2020	COW_ASB
Total Hardness, calculated in water	3590	mg/L	5/30/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	14.90 ± 4.4%	NTU	5/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	102.000	mg/L	6/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	48.70	mg/L	6/3/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/3/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/3/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.200	%	6/3/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/3/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/3/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/3/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.00001	mg/L	6/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,2-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	6/3/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	6/3/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	6/3/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	6/3/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.9	%	6/3/2020	ALS
Acetone	<0.050	mg/L	6/3/2020	ALS
Benzene	<0.00050	mg/L	6/3/2020	ALS
Bromodichloromethane	<0.00050	mg/L	6/3/2020	ALS
Bromoform	<0.0010	mg/L	6/3/2020	ALS
Bromomethane	<0.001	mg/L	6/3/2020	ALS
Chlorobenzene	<0.0010	mg/L	6/3/2020	ALS
Chloroethane	<0.001	mg/L	6/3/2020	ALS
Chloroform	<0.00050	mg/L	6/3/2020	ALS
Chloromethane	<0.005	mg/L	6/3/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Dibromochloromethane	<0.0005	mg/L	6/3/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	6/3/2020	ALS
Dichloromethane	<0.00500	mg/L	6/3/2020	ALS
Ethylbenzene	<0.00050	mg/L	6/3/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	6/3/2020	ALS
o-Xylene	<0.0005	mg/L	6/3/2020	ALS
Styrene	<0.0010	mg/L	6/3/2020	ALS
Toluene	<0.00050	mg/L	6/3/2020	ALS
trans-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	6/3/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/3/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	15	MPN/100mL	6/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	19	MPN/100mL	6/3/2020	ALS
Total Coliforms by QT97	261	MPN/100mL	6/3/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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Sample No. : 300211
Sample Description : SWQ1-1
Sample Date : May 14, 2020
Sample Received : May 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	240 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, total to pH 4.5	250 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	5.0 ± 2.8%	mg/L		5/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.016 ± 16.9%	mg/L		5/22/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.024 ± 7.8%	mg/L		5/22/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		5/23/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.5 ± 15%	mg/L		5/21/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	16.2 ± 6%	mg/L		5/17/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2.0 ± 10%	mg/L		5/16/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		5/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	32.0 ± 6.1%	mg/L		5/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	521 ± 7.2%	uS		5/17/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.35 ± 0.07 units	units		5/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	302 ± 6.5%	mg/L		5/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	56.0	mg/L		5/19/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	358 ± 6.2%	mg/L		5/17/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	13.3 ± 13%	mg/L		5/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	13.4 ± 13%	mg/L		5/21/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.023419 ± 9.2%	mg/L		5/26/2020	COW_ASB
Arsenic (As), total in water	0.019020 ± 8.1%	mg/L		5/26/2020	COW_ASB

Metals Total in Water by ICP-MS

Barium (Ba), total in water	0.82438 ± 11.8%	mg/L	5/26/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/26/2020	COW_ASB
Boron (B), total in water	0.07513 ± 24.2%	mg/L	5/26/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/26/2020	COW_ASB
Calcium (Ca), total in water	772.40 ± 20.9%	mg/L	5/26/2020	COW_ASB
Chromium (Cr), total in water	0.02307 ± 12.8%	mg/L	5/26/2020	COW_ASB
Copper (Cu), total in water	0.038982 ± 12.1%	mg/L	5/26/2020	COW_ASB
Iron (Fe), total in water	14.849 ± 9.7%	mg/L	5/26/2020	COW_ASB
Lead (Pb), total in water	0.008170 ± 8.3%	mg/L	5/26/2020	COW_ASB
Magnesium (Mg), total in water	302.11 ± 10.5%	mg/L	5/26/2020	COW_ASB
Manganese (Mn), total in water	0.65594 ± 11.2%	mg/L	5/26/2020	COW_ASB
Nickel (Ni), total in water	0.031554 ± 12.2%	mg/L	5/26/2020	COW_ASB
Phosphorus (P), total in water	1.0250	mg/L	5/26/2020	COW_ASB
Potassium (K), total in water	47.620 ± 18.3%	mg/L	5/26/2020	COW_ASB
Selenium (Se), total in water	0.00209 ± 8.0%	mg/L	5/26/2020	COW_ASB
Sodium (Na), total in water	130.65 ± 9.2%	mg/L	5/26/2020	COW_ASB
Uranium (U), total in water	0.010745 ± 10.0%	mg/L	5/26/2020	COW_ASB
Zinc (Zn), total in water	0.14981 ± 10.7%	mg/L	5/26/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1930	mg/L	5/30/2020	COW_ASB
Total Hardness, calculated in water	3170	mg/L	5/30/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	32.20 ± 4.4%	NTU	5/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	15.500	mg/L	6/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	8.84	mg/L	6/3/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	<0.00001	mg/L	6/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	6/3/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	6/3/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	6/3/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	6/3/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.3	%	6/3/2020	ALS

VOC plus F1 by GCMS

Acetone	<0.050	mg/L	6/3/2020	ALS
Benzene	<0.00050	mg/L	6/3/2020	ALS
Bromodichloromethane	<0.00050	mg/L	6/3/2020	ALS
Bromoform	<0.0010	mg/L	6/3/2020	ALS
Bromomethane	<0.001	mg/L	6/3/2020	ALS
Chlorobenzene	<0.0010	mg/L	6/3/2020	ALS
Chloroethane	<0.001	mg/L	6/3/2020	ALS
Chloroform	<0.00050	mg/L	6/3/2020	ALS
Chloromethane	<0.005	mg/L	6/3/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Dibromochloromethane	<0.0005	mg/L	6/3/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	6/3/2020	ALS
Dichloromethane	<0.00500	mg/L	6/3/2020	ALS
Ethylbenzene	<0.00050	mg/L	6/3/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	6/3/2020	ALS
o-Xylene	<0.0005	mg/L	6/3/2020	ALS
Styrene	<0.0010	mg/L	6/3/2020	ALS
Toluene	<0.00050	mg/L	6/3/2020	ALS
trans-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	6/3/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	153	MPN/100mL	6/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	154	MPN/100mL	6/3/2020	ALS
Total Coliforms by QT97	435	MPN/100mL	6/3/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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Sample No. : 300212
Sample Description : SWQ1-2
Sample Date : May 14, 2020
Sample Received : May 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	255 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, total to pH 4.5	255 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		5/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.011 ± 16.9%	mg/L		5/22/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.029 ± 7.8%	mg/L		5/22/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		5/23/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.4 ± 15%	mg/L		5/21/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	17.1 ± 6%	mg/L		5/17/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1.9 ± 10%	mg/L		5/16/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		5/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	34.0 ± 6.1%	mg/L		5/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	532 ± 7.2%	uS		5/17/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.23 ± 0.07 units	units		5/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	306 ± 6.5%	mg/L		5/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	54.0	mg/L		5/19/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	360 ± 6.2%	mg/L		5/17/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	13.0 ± 13%	mg/L		5/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	13.8 ± 13%	mg/L		5/21/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.008794 ± 9.2%	mg/L		5/26/2020	COW_ASB
Arsenic (As), total in water	0.018809 ± 8.1%	mg/L		5/26/2020	COW_ASB

Metals Total in Water by ICP-MS

Barium (Ba), total in water	0.80955 ± 11.8%	mg/L	5/26/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/26/2020	COW_ASB
Boron (B), total in water	0.04143 ± 24.2%	mg/L	5/26/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/26/2020	COW_ASB
Calcium (Ca), total in water	730.46 ± 20.9%	mg/L	5/26/2020	COW_ASB
Chromium (Cr), total in water	0.06448 ± 12.8%	mg/L	5/26/2020	COW_ASB
Copper (Cu), total in water	0.045622 ± 12.1%	mg/L	5/26/2020	COW_ASB
Iron (Fe), total in water	15.067 ± 9.7%	mg/L	5/26/2020	COW_ASB
Lead (Pb), total in water	0.007931 ± 8.3%	mg/L	5/26/2020	COW_ASB
Magnesium (Mg), total in water	281.25 ± 10.5%	mg/L	5/26/2020	COW_ASB
Manganese (Mn), total in water	0.65350 ± 11.2%	mg/L	5/26/2020	COW_ASB
Nickel (Ni), total in water	0.038996 ± 12.2%	mg/L	5/26/2020	COW_ASB
Phosphorus (P), total in water	1.2403	mg/L	5/26/2020	COW_ASB
Potassium (K), total in water	44.578 ± 18.3%	mg/L	5/26/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	5/26/2020	COW_ASB
Sodium (Na), total in water	126.35 ± 9.2%	mg/L	5/26/2020	COW_ASB
Uranium (U), total in water	0.010458 ± 10.0%	mg/L	5/26/2020	COW_ASB
Zinc (Zn), total in water	0.15060 ± 10.7%	mg/L	5/26/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1820	mg/L	5/30/2020	COW_ASB
Total Hardness, calculated in water	2980	mg/L	5/30/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	30.70 ± 4.4%	NTU	5/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	15.800	mg/L	6/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	8.94	mg/L	6/3/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	<0.00001	mg/L	6/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	6/3/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	6/3/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	6/3/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	6/3/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.0	%	6/3/2020	ALS

VOC plus F1 by GCMS

Acetone	<0.050	mg/L	6/3/2020	ALS
Benzene	<0.00050	mg/L	6/3/2020	ALS
Bromodichloromethane	<0.00050	mg/L	6/3/2020	ALS
Bromoform	<0.0010	mg/L	6/3/2020	ALS
Bromomethane	<0.001	mg/L	6/3/2020	ALS
Chlorobenzene	<0.0010	mg/L	6/3/2020	ALS
Chloroethane	<0.001	mg/L	6/3/2020	ALS
Chloroform	<0.00050	mg/L	6/3/2020	ALS
Chloromethane	<0.005	mg/L	6/3/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Dibromochloromethane	<0.0005	mg/L	6/3/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	6/3/2020	ALS
Dichloromethane	<0.00500	mg/L	6/3/2020	ALS
Ethylbenzene	<0.00050	mg/L	6/3/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	6/3/2020	ALS
o-Xylene	<0.0005	mg/L	6/3/2020	ALS
Styrene	<0.0010	mg/L	6/3/2020	ALS
Toluene	<0.00050	mg/L	6/3/2020	ALS
trans-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	6/3/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	135	MPN/100mL	6/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	77	MPN/100mL	6/3/2020	ALS
Total Coliforms by QT97	416	MPN/100mL	6/3/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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Sample No. : 300213
Sample Description : SWQ15-1
Sample Date : May 14, 2020
Sample Received : May 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	270 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, total to pH 4.5	270 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		5/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.032 ± 16.9%	mg/L		5/22/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.037 ± 7.8%	mg/L		5/22/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.9	mg/L		5/23/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.9 ± 15%	mg/L		5/21/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	16.9 ± 6%	mg/L		5/17/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	88.4 ± 10%	mg/L		5/16/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		5/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	36.0 ± 6.1%	mg/L		5/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1200 ± 7.2%	uS		5/17/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.86 ± 0.07 units	units		5/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	675 ± 6.5%	mg/L		5/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	65.0	mg/L		5/19/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	740 ± 6.2%	mg/L		5/17/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	13.7 ± 13%	mg/L		5/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	18.8 ± 13%	mg/L		5/21/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000588 ± 9.2%	mg/L		5/26/2020	COW_ASB
Arsenic (As), total in water	0.033577 ± 8.1%	mg/L		5/26/2020	COW_ASB

Metals Total in Water by ICP-MS

Barium (Ba), total in water	0.74786 ± 11.8%	mg/L	5/26/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/26/2020	COW_ASB
Boron (B), total in water	0.60166 ± 24.2%	mg/L	5/26/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/26/2020	COW_ASB
Calcium (Ca), total in water	827.34 ± 20.9%	mg/L	5/26/2020	COW_ASB
Chromium (Cr), total in water	0.00656 ± 12.8%	mg/L	5/26/2020	COW_ASB
Copper (Cu), total in water	0.026235 ± 12.1%	mg/L	5/26/2020	COW_ASB
Iron (Fe), total in water	5.7569 ± 9.7%	mg/L	5/26/2020	COW_ASB
Lead (Pb), total in water	0.001285 ± 8.3%	mg/L	5/26/2020	COW_ASB
Magnesium (Mg), total in water	560.57 ± 10.5%	mg/L	5/26/2020	COW_ASB
Manganese (Mn), total in water	1.2516 ± 11.2%	mg/L	5/26/2020	COW_ASB
Nickel (Ni), total in water	0.036197 ± 12.2%	mg/L	5/26/2020	COW_ASB
Phosphorus (P), total in water	4.4694	mg/L	5/26/2020	COW_ASB
Potassium (K), total in water	202.31 ± 18.3%	mg/L	5/26/2020	COW_ASB
Selenium (Se), total in water	0.00195 ± 8.0%	mg/L	5/26/2020	COW_ASB
Sodium (Na), total in water	1318.6 ± 9.2%	mg/L	5/26/2020	COW_ASB
Uranium (U), total in water	0.041974 ± 10.0%	mg/L	5/26/2020	COW_ASB
Zinc (Zn), total in water	0.13732 ± 10.7%	mg/L	5/26/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	2070	mg/L	5/30/2020	COW_ASB
Total Hardness, calculated in water	4370	mg/L	5/30/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	6.02 ± 4.4%	NTU	5/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	188.000	mg/L	6/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	73.30	mg/L	6/3/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	<0.00001	mg/L	6/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	6/3/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	6/3/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	6/3/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	6/3/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.1	%	6/3/2020	ALS

VOC plus F1 by GCMS

Acetone	<0.050	mg/L	6/3/2020	ALS
Benzene	<0.00050	mg/L	6/3/2020	ALS
Bromodichloromethane	<0.00050	mg/L	6/3/2020	ALS
Bromoform	<0.0010	mg/L	6/3/2020	ALS
Bromomethane	<0.001	mg/L	6/3/2020	ALS
Chlorobenzene	<0.0010	mg/L	6/3/2020	ALS
Chloroethane	<0.001	mg/L	6/3/2020	ALS
Chloroform	<0.00050	mg/L	6/3/2020	ALS
Chloromethane	<0.005	mg/L	6/3/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Dibromochloromethane	<0.0005	mg/L	6/3/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	6/3/2020	ALS
Dichloromethane	<0.00500	mg/L	6/3/2020	ALS
Ethylbenzene	<0.00050	mg/L	6/3/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	6/3/2020	ALS
o-Xylene	<0.0005	mg/L	6/3/2020	ALS
Styrene	<0.0010	mg/L	6/3/2020	ALS
Toluene	<0.00050	mg/L	6/3/2020	ALS
trans-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	6/3/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	15	MPN/100mL	6/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	5	MPN/100mL	6/3/2020	ALS
Total Coliforms by QT97	144	MPN/100mL	6/3/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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Sample No. : 300214
Sample Description : SWQ15-2
Sample Date : May 14, 2020
Sample Received : May 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	264 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, total to pH 4.5	264 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		5/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.042 ± 16.9%	mg/L		5/22/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.094 ± 7.8%	mg/L		5/22/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.8	mg/L		5/23/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.9 ± 15%	mg/L		5/21/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	177 ± 6%	mg/L		5/17/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	131 ± 10%	mg/L		5/16/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		5/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	35.0 ± 6.1%	mg/L		5/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1320 ± 7.2%	uS		5/17/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.76 ± 0.07 units	units		5/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	791 ± 6.5%	mg/L		5/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	59.0	mg/L		5/19/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	850 ± 6.2%	mg/L		5/17/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	14.6 ± 13%	mg/L		5/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	25.1 ± 13%	mg/L		5/21/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.003249 ± 9.2%	mg/L		5/26/2020	COW_ASB
Arsenic (As), total in water	0.032056 ± 8.1%	mg/L		5/26/2020	COW_ASB

Metals Total in Water by ICP-MS

Barium (Ba), total in water	0.74579 ± 11.8%	mg/L	5/26/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/26/2020	COW_ASB
Boron (B), total in water	1.4544 ± 24.2%	mg/L	5/26/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/26/2020	COW_ASB
Calcium (Ca), total in water	988.40 ± 20.9%	mg/L	5/26/2020	COW_ASB
Chromium (Cr), total in water	0.00922 ± 12.8%	mg/L	5/26/2020	COW_ASB
Copper (Cu), total in water	0.032714 ± 12.1%	mg/L	5/26/2020	COW_ASB
Iron (Fe), total in water	8.1926 ± 9.7%	mg/L	5/26/2020	COW_ASB
Lead (Pb), total in water	0.005505 ± 8.3%	mg/L	5/26/2020	COW_ASB
Magnesium (Mg), total in water	608.20 ± 10.5%	mg/L	5/26/2020	COW_ASB
Manganese (Mn), total in water	1.3102 ± 11.2%	mg/L	5/26/2020	COW_ASB
Nickel (Ni), total in water	0.035615 ± 12.2%	mg/L	5/26/2020	COW_ASB
Phosphorus (P), total in water	4.3094	mg/L	5/26/2020	COW_ASB
Potassium (K), total in water	202.58 ± 18.3%	mg/L	5/26/2020	COW_ASB
Selenium (Se), total in water	0.00566 ± 8.0%	mg/L	5/26/2020	COW_ASB
Sodium (Na), total in water	1629.6 ± 9.2%	mg/L	5/26/2020	COW_ASB
Uranium (U), total in water	0.039983 ± 10.0%	mg/L	5/26/2020	COW_ASB
Zinc (Zn), total in water	0.19128 ± 10.7%	mg/L	5/26/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	2470	mg/L	5/30/2020	COW_ASB
Total Hardness, calculated in water	4970	mg/L	5/30/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	7.38 ± 4.4%	NTU	5/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	204.000	mg/L	6/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	132.00	mg/L	6/3/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	<0.00001	mg/L	6/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	6/3/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	6/3/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	6/3/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	6/3/2020	ALS
Surrogate: 1,4-Difluorobenzene	98.5	%	6/3/2020	ALS

VOC plus F1 by GCMS

Acetone	0.221	mg/L	6/3/2020	ALS
Benzene	<0.00050	mg/L	6/3/2020	ALS
Bromodichloromethane	<0.00050	mg/L	6/3/2020	ALS
Bromoform	<0.0010	mg/L	6/3/2020	ALS
Bromomethane	<0.001	mg/L	6/3/2020	ALS
Chlorobenzene	<0.0010	mg/L	6/3/2020	ALS
Chloroethane	<0.001	mg/L	6/3/2020	ALS
Chloroform	<0.00050	mg/L	6/3/2020	ALS
Chloromethane	<0.005	mg/L	6/3/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Dibromochloromethane	<0.0005	mg/L	6/3/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	6/3/2020	ALS
Dichloromethane	<0.00500	mg/L	6/3/2020	ALS
Ethylbenzene	<0.00050	mg/L	6/3/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	6/3/2020	ALS
o-Xylene	<0.0005	mg/L	6/3/2020	ALS
Styrene	<0.0010	mg/L	6/3/2020	ALS
Toluene	<0.00050	mg/L	6/3/2020	ALS
trans-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	6/3/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	19	MPN/100mL	6/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	10	MPN/100mL	6/3/2020	ALS
Total Coliforms by QT97	308	MPN/100mL	6/3/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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Sample No. : 300215
Sample Description : SWQ18-1
Sample Date : May 14, 2020
Sample Received : May 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	314 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, total to pH 4.5	314 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		5/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.023 ± 16.9%	mg/L		5/22/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.046 ± 7.8%	mg/L		5/22/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.9	mg/L		5/23/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.0 ± 15%	mg/L		5/21/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	92.8 ± 6%	mg/L		5/17/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	117 ± 10%	mg/L		5/16/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		5/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	43.0 ± 6.1%	mg/L		5/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1010 ± 7.2%	uS		5/17/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.94 ± 0.07 units	units		5/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	619 ± 6.5%	mg/L		5/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	49.0	mg/L		5/19/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	668 ± 6.2%	mg/L		5/17/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	16.4 ± 13%	mg/L		5/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	41.0 ± 13%	mg/L		5/21/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.008472 ± 9.2%	mg/L		5/26/2020	COW_ASB
Arsenic (As), total in water	0.055968 ± 8.1%	mg/L		5/26/2020	COW_ASB

Metals Total in Water by ICP-MS

Barium (Ba), total in water	0.58437 ± 11.8%	mg/L	5/26/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/26/2020	COW_ASB
Boron (B), total in water	1.0618 ± 24.2%	mg/L	5/26/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/26/2020	COW_ASB
Calcium (Ca), total in water	876.66 ± 20.9%	mg/L	5/26/2020	COW_ASB
Chromium (Cr), total in water	0.01725 ± 12.8%	mg/L	5/26/2020	COW_ASB
Copper (Cu), total in water	0.045914 ± 12.1%	mg/L	5/26/2020	COW_ASB
Iron (Fe), total in water	11.378 ± 9.7%	mg/L	5/26/2020	COW_ASB
Lead (Pb), total in water	0.004122 ± 8.3%	mg/L	5/26/2020	COW_ASB
Magnesium (Mg), total in water	653.44 ± 10.5%	mg/L	5/26/2020	COW_ASB
Manganese (Mn), total in water	0.74151 ± 11.2%	mg/L	5/26/2020	COW_ASB
Nickel (Ni), total in water	0.054603 ± 12.2%	mg/L	5/26/2020	COW_ASB
Phosphorus (P), total in water	7.1311	mg/L	5/26/2020	COW_ASB
Potassium (K), total in water	199.67 ± 18.3%	mg/L	5/26/2020	COW_ASB
Selenium (Se), total in water	0.01797 ± 8.0%	mg/L	5/26/2020	COW_ASB
Sodium (Na), total in water	800.84 ± 9.2%	mg/L	5/26/2020	COW_ASB
Uranium (U), total in water	0.058384 ± 10.0%	mg/L	5/26/2020	COW_ASB
Zinc (Zn), total in water	0.13591 ± 10.7%	mg/L	5/26/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	2190	mg/L	5/30/2020	COW_ASB
Total Hardness, calculated in water	4880	mg/L	5/30/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	8.27 ± 4.4%	NTU	5/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	92.200	mg/L	6/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	107.00	mg/L	6/3/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	<0.00001	mg/L	6/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	6/3/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	6/3/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	6/3/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	6/3/2020	ALS
Surrogate: 1,4-Difluorobenzene	98.3	%	6/3/2020	ALS

VOC plus F1 by GCMS

Acetone	<0.050	mg/L	6/3/2020	ALS
Benzene	<0.00050	mg/L	6/3/2020	ALS
Bromodichloromethane	<0.00050	mg/L	6/3/2020	ALS
Bromoform	<0.0010	mg/L	6/3/2020	ALS
Bromomethane	<0.001	mg/L	6/3/2020	ALS
Chlorobenzene	<0.0010	mg/L	6/3/2020	ALS
Chloroethane	<0.001	mg/L	6/3/2020	ALS
Chloroform	<0.00050	mg/L	6/3/2020	ALS
Chloromethane	<0.005	mg/L	6/3/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Dibromochloromethane	<0.0005	mg/L	6/3/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	6/3/2020	ALS
Dichloromethane	<0.00500	mg/L	6/3/2020	ALS
Ethylbenzene	<0.00050	mg/L	6/3/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	6/3/2020	ALS
o-Xylene	<0.0005	mg/L	6/3/2020	ALS
Styrene	<0.0010	mg/L	6/3/2020	ALS
Toluene	<0.00050	mg/L	6/3/2020	ALS
trans-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	6/3/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	27	MPN/100mL	6/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	18	MPN/100mL	6/3/2020	ALS
Total Coliforms by QT97	358	MPN/100mL	6/3/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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Sample No. : 300216
Sample Description : SWQ18-2
Sample Date : May 14, 2020
Sample Received : May 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	315 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, total to pH 4.5	315 ± 2.8%	mg/L		5/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		5/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.016 ± 16.9%	mg/L		5/22/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.028 ± 7.8%	mg/L		5/22/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.8	mg/L		5/23/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.8 ± 15%	mg/L		5/21/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	94.0 ± 6%	mg/L		5/17/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	123 ± 10%	mg/L		5/16/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		5/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	42.0 ± 6.1%	mg/L		5/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1040 ± 7.2%	uS		5/17/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.04 ± 0.07 units	units		5/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	649 ± 6.5%	mg/L		5/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	51.0	mg/L		5/19/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	700 ± 6.2%	mg/L		5/17/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	16.2 ± 13%	mg/L		5/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	61.6 ± 13%	mg/L		5/21/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		5/26/2020	COW_ASB
Arsenic (As), total in water	0.055259 ± 8.1%	mg/L		5/26/2020	COW_ASB

Metals Total in Water by ICP-MS

Barium (Ba), total in water	0.56697 ± 11.8%	mg/L	5/26/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	5/26/2020	COW_ASB
Boron (B), total in water	1.1359 ± 24.2%	mg/L	5/26/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	5/26/2020	COW_ASB
Calcium (Ca), total in water	901.40 ± 20.9%	mg/L	5/26/2020	COW_ASB
Chromium (Cr), total in water	0.01638 ± 12.8%	mg/L	5/26/2020	COW_ASB
Copper (Cu), total in water	0.044440 ± 12.1%	mg/L	5/26/2020	COW_ASB
Iron (Fe), total in water	9.7006 ± 9.7%	mg/L	5/26/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	5/26/2020	COW_ASB
Magnesium (Mg), total in water	665.89 ± 10.5%	mg/L	5/26/2020	COW_ASB
Manganese (Mn), total in water	0.59012 ± 11.2%	mg/L	5/26/2020	COW_ASB
Nickel (Ni), total in water	0.051976 ± 12.2%	mg/L	5/26/2020	COW_ASB
Phosphorus (P), total in water	6.8945	mg/L	5/26/2020	COW_ASB
Potassium (K), total in water	212.17 ± 18.3%	mg/L	5/26/2020	COW_ASB
Selenium (Se), total in water	0.00889 ± 8.0%	mg/L	5/26/2020	COW_ASB
Sodium (Na), total in water	815.67 ± 9.2%	mg/L	5/26/2020	COW_ASB
Uranium (U), total in water	0.059961 ± 10.0%	mg/L	5/26/2020	COW_ASB
Zinc (Zn), total in water	0.13038 ± 10.7%	mg/L	5/26/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	2250	mg/L	5/30/2020	COW_ASB
Total Hardness, calculated in water	4990	mg/L	5/30/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	7.22 ± 4.4%	NTU	5/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	101.000	mg/L	6/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	116.00	mg/L	6/3/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	<0.00001	mg/L	6/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/3/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	6/3/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	6/3/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	6/3/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	6/3/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	6/3/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.0	%	6/3/2020	ALS

VOC plus F1 by GCMS

Acetone	<0.050	mg/L	6/3/2020	ALS
Benzene	<0.00050	mg/L	6/3/2020	ALS
Bromodichloromethane	<0.00050	mg/L	6/3/2020	ALS
Bromoform	<0.0010	mg/L	6/3/2020	ALS
Bromomethane	<0.001	mg/L	6/3/2020	ALS
Chlorobenzene	<0.0010	mg/L	6/3/2020	ALS
Chloroethane	<0.001	mg/L	6/3/2020	ALS
Chloroform	<0.00050	mg/L	6/3/2020	ALS
Chloromethane	<0.005	mg/L	6/3/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Dibromochloromethane	<0.0005	mg/L	6/3/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	6/3/2020	ALS
Dichloromethane	<0.00500	mg/L	6/3/2020	ALS
Ethylbenzene	<0.00050	mg/L	6/3/2020	ALS
Methytertbutylether [MTBE]	<0.0005	mg/L	6/3/2020	ALS
o-Xylene	<0.0005	mg/L	6/3/2020	ALS
Styrene	<0.0010	mg/L	6/3/2020	ALS
Toluene	<0.00050	mg/L	6/3/2020	ALS
trans-1,3-Dichloropropene	<0.0020	mg/L	6/3/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	6/3/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	51	MPN/100mL	6/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	48	MPN/100mL	6/3/2020	ALS
Total Coliforms by QT97	416	MPN/100mL	6/3/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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Reference Information

The Analytical Services Branch is accredited by CALA in accordance with ISO 17025 standards for specific tests.

Accredited Test Methods Used :**Test Method**

Alkalinity by Titration
 Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis
 BOD5 Seeded by Automated Method
 COD by Closed Reflux Method
 Conductivity by Electrometric Method
 Dissolved Organic Carbon by High Temperature Combustion
 Dissolved Solids by Gravimetric Analysis
 Hardness, Calcium & Total by Calculation

Reference Method

Modified from SM 2320 B. Titration Method
 Modified from SM 4500-NH3 H. NO3 I & P G. Flow Injection Analysis
 Modified from SM 5210 B. 5-Day BOD Test
 Modified from SM 5220 D. Closed Reflux, Colorimetric Method
 Modified from SM 2510 B. Laboratory Measurement
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 C. Total Dissolved Solids Dried at 180°C
 Modified from EPA Methods 200.8

Accredited Test Methods Used :

Test Method

Metals Total in Water by ICP-MS
 pH in Laboratory by Electrometric Method
 Total Kjeldahl Nitrogen Calculated

 Total Nitrogen by High Temperature Combustion
 Total Organic Carbon by High Temperature Combustion
 Total Solids by Gravimetric Analysis
 Total Suspended Solids by Gravimetric Analysis
 Turbidity in Laboratory by Nephelometric Method

Reference Method

Modified from EPA Methods 200.8
 Modified from SM 4500 H+B (Electrometric Method)
 Modified from SM 5310 B. High Temperature Combustion and SM 4500-NO3 I. Flow Injection Analysis
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 B. Total Solids Dried at 103-105°C
 Modified from SM 2540 D. Total Suspended Solids Dried at 103-105°C
 Modified from SM 2130 A. Turbidity & 2130 B. Nephelometric Method

Additional Test Methods Used :

Test Method

Chloride by Mercuric Thiocyanate Method
 Sulfate by HACH Method

Reference Method

Modified from SM 4500Cl-G Mercuric Thiocyanate & HACH Method 8113
 Modified from HACH Method 8051, SulfaVer 4, & SM 4500-SO4-2 E. Turbidimetric

Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4
 COW_ASB : City of Winnipeg Main Laboratory at NEWPCC, 2230 Main Street, Winnipeg, MB R2V 4T8

Additional Comments :

- 1) A quality control report can be provided upon request. These reports may contain quality control results from other samples not included in this test report.
- 2) Analytical Services Branch test methods may incorporate modifications from specified reference methods to improve performance.
- 3) For subcontracted testing, the certificate of analysis can be provided upon request.
- 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

-----**END OF REPORT**-----



Report To :

Mr. Chris Kozak

Solid Waste Services Division
1120 Waverley Street
Winnipeg MB R3E 3S8

Report Date : September 30, 2020

Phone : 204-986-2384

Email : ckozak@winnipeg.ca

Certificate of Analysis Job No. 526

Date Authorised : September 30, 2020

Total Number of Pages : 179

This report is issued under the authority of :

Brock Bradford

Analytical Services Branch Head

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The results relate only to the sample(s) as received by the laboratory.

Additional information regarding the test methods used by Analytical Services Branch or contract laboratory is available upon request.

Sample No. : 303434
Sample Description : GWQ25-W4
Sample Date : May 28, 2020
Sample Received : May 29, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	59.1 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, total to pH 4.5	59.1 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		5/29/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.805 ± 16.9%	mg/L		5/31/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.003 ± 7.8%	mg/L		5/31/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		5/31/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.5	mg/L		6/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.5 ± 15%	mg/L		6/2/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2160 ± 6%	mg/L		5/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	522 ± 10%	mg/L		5/30/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	55.0 ± 6.1%	mg/L		6/1/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	7330 ± 7.2%	uS		5/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.95 ± 0.07 units	units		5/29/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	4380 ± 6.2%	mg/L		5/31/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4080 ± 6.5%	mg/L		5/30/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	306.0	mg/L		5/31/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.2 ± 13%	mg/L		6/2/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.4 ± 13%	mg/L		6/2/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000691 ± 9.2%	mg/L		6/3/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.000345 ± 8.1%	mg/L	6/3/2020	COW_ASB
Barium (Ba), total in water	0.011622 ± 11.8%	mg/L	6/3/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/3/2020	COW_ASB
Boron (B), total in water	0.67551 ± 24.2%	mg/L	6/3/2020	COW_ASB
Cadmium (Cd), total in water	0.000011 ± 10.4%	mg/L	6/3/2020	COW_ASB
Calcium (Ca), total in water	223.61 ± 20.9%	mg/L	6/3/2020	COW_ASB
Chromium (Cr), total in water	0.00071 ± 12.8%	mg/L	6/3/2020	COW_ASB
Copper (Cu), total in water	0.000530 ± 12.1%	mg/L	6/3/2020	COW_ASB
Iron (Fe), total in water	3.7480 ± 9.7%	mg/L	6/3/2020	COW_ASB
Lead (Pb), total in water	0.000173 ± 8.3%	mg/L	6/3/2020	COW_ASB
Magnesium (Mg), total in water	125.52 ± 10.5%	mg/L	6/3/2020	COW_ASB
Manganese (Mn), total in water	0.03320 ± 11.2%	mg/L	6/3/2020	COW_ASB
Nickel (Ni), total in water	0.000205 ± 12.2%	mg/L	6/3/2020	COW_ASB
Phosphorus (P), total in water	0.0030	mg/L	6/3/2020	COW_ASB
Potassium (K), total in water	29.085 ± 18.3%	mg/L	6/3/2020	COW_ASB
Selenium (Se), total in water	0.00162 ± 8.0%	mg/L	6/3/2020	COW_ASB
Sodium (Na), total in water	1476.5 ± 9.2%	mg/L	6/3/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	6/3/2020	COW_ASB
Zinc (Zn), total in water	0.00825 ± 10.7%	mg/L	6/3/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	558	mg/L	6/4/2020	COW_ASB
Total Hardness, calculated in water	1080	mg/L	6/4/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	10.70 ± 4.4%	NTU	5/29/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/17/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/17/2020	ALS
Arsenic (As), dissolved in water	0.00496	mg/L	6/17/2020	ALS
Barium (Ba), dissolved in water	0.0127	mg/L	6/17/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/17/2020	ALS
Boron (B), dissolved in water	1.1400	mg/L	6/17/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/17/2020	ALS
Calcium (Ca), dissolved in water	183.0000	mg/L	6/17/2020	ALS
Cesium (Cs), dissolved in water	0.000055	mg/L	6/17/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Cobalt (Co), dissolved in water	0.00071	mg/L	6/17/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	6/17/2020	ALS
Hardness dissolved in water, calculated	1235.3	mg/L	6/17/2020	ALS
Iron (Fe), dissolved in water	0.6410	mg/L	6/17/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/17/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3050	mg/L	6/17/2020	ALS
Magnesium (Mg), dissolved in water	189.0000	mg/L	6/17/2020	ALS
Manganese (Mn), dissolved in water	0.0255	mg/L	6/17/2020	ALS
Molybdenum (Mo), dissolved in water	0.003080	mg/L	6/17/2020	ALS
Nickel (Ni), dissolved in water	0.00140	mg/L	6/17/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/17/2020	ALS
Potassium (K), dissolved in water	41.7000	mg/L	6/17/2020	ALS
Rubidium (Rb), dissolved in water	0.0169	mg/L	6/17/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/17/2020	ALS
Silicon (Si), dissolved in water	5.2400	mg/L	6/17/2020	ALS
Silver (Ag), dissolved in water	0.000067	mg/L	6/17/2020	ALS
Sodium (Na), dissolved in water	1220.0000	mg/L	6/17/2020	ALS
Strontium (Sr), dissolved in water	4.4000	mg/L	6/17/2020	ALS
Sulfur (S), dissolved in water	199.0000	mg/L	6/17/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/17/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/17/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/17/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Uranium (U), dissolved in water	0.001110	mg/L	6/17/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/17/2020	ALS
Zinc (Zn), dissolved in water	0.0010	mg/L	6/17/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/17/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.000050	mg/L	6/17/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/17/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	72.200	%	6/17/2020	ALS
Surrogate: d14-Terphenyl in water	81.500	%	6/17/2020	ALS
Diazinon in water	<0.1000	ug/L	6/17/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/17/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/17/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	98.500	%	6/17/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/17/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/17/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/17/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/17/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	6/17/2020	ALS
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2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	6/17/2020	ALS
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2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	6/17/2020	ALS
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2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0010	ug/L	6/17/2020	ALS
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Surrogate: 2,4-Dichlorophenylacetic Acid in water	108.0	%	6/17/2020	ALS
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2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0010	ug/L	6/17/2020	ALS
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Bromoxynil in water	<0.0010	ug/L	6/17/2020	ALS
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Clopyralid in water	<0.0010	ug/L	6/17/2020	ALS
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Dicamba in water	<0.0010	ug/L	6/17/2020	ALS
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Dinoseb in water	<0.0010	ug/L	6/17/2020	ALS
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2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	6/17/2020	ALS
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2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0010	ug/L	6/17/2020	ALS
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Mecoprop in water	<0.0010	ug/L	6/17/2020	ALS
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Picloram in water	<0.0010	ug/L	6/17/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/17/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/17/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthylene	<0.000020	mg/L	6/18/2020	ALS
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Acridine	<0.000020	mg/L	6/18/2020	ALS
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Anthracene	<0.000010	mg/L	6/18/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	6/18/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	6/18/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	6/18/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Chrysene	<0.000020	mg/L	6/18/2020	ALS
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Surrogate: d10-Acenaphthene	93.8	%	6/18/2020	ALS
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CCME PAHs in mg/L

Surrogate: d10-Phenanthrene	97.2	%	6/18/2020	ALS
Surrogate: d12-Chrysene	80.9	%	6/18/2020	ALS
Surrogate: d8-Naphthalene	88.9	%	6/18/2020	ALS
Surrogate: d9-Acridine (SS)	77.7	%	6/18/2020	ALS
Dibenzo(a,h)anthracene	<0.000050	mg/L	6/18/2020	ALS
Fluoranthene	<0.000020	mg/L	6/18/2020	ALS
Fluorene	<0.000020	mg/L	6/18/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/18/2020	ALS
Naphthalene	<0.000050	mg/L	6/18/2020	ALS
Phenanthrene	<0.000050	mg/L	6/18/2020	ALS
Pyrene	<0.000010	mg/L	6/18/2020	ALS
Quinoline	<0.000020	mg/L	6/18/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/18/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.5	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303435
Sample Description : GWQ25-W6
Sample Date : June 4, 2020
Sample Received : June 4, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	138 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, total to pH 4.5	138 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.44 ± 16.9%	mg/L		6/11/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/11/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.016 ± 7.5%	mg/L		6/11/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.8	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.8 ± 15%	mg/L		6/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2990 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	888 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	89.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	10500 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.48 ± 0.07 units	units		6/4/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	6740 ± 6.2%	mg/L		6/5/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	6250 ± 6.5%	mg/L		6/6/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	484.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.2 ± 13%	mg/L		6/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.7 ± 13%	mg/L		6/10/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000070 ± 9.2%	mg/L		6/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.005630 ± 8.1%	mg/L	6/15/2020	COW_ASB
Barium (Ba), total in water	0.011949 ± 11.8%	mg/L	6/15/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/15/2020	COW_ASB
Boron (B), total in water	1.1227 ± 24.2%	mg/L	6/15/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/15/2020	COW_ASB
Calcium (Ca), total in water	311.44 ± 20.9%	mg/L	6/15/2020	COW_ASB
Chromium (Cr), total in water	0.00223 ± 12.8%	mg/L	6/15/2020	COW_ASB
Copper (Cu), total in water	0.000772 ± 12.1%	mg/L	6/15/2020	COW_ASB
Iron (Fe), total in water	1.3421 ± 9.7%	mg/L	6/15/2020	COW_ASB
Lead (Pb), total in water	0.000143 ± 8.3%	mg/L	6/15/2020	COW_ASB
Magnesium (Mg), total in water	161.84 ± 10.5%	mg/L	6/15/2020	COW_ASB
Manganese (Mn), total in water	0.03090 ± 11.2%	mg/L	6/15/2020	COW_ASB
Nickel (Ni), total in water	0.000267 ± 12.2%	mg/L	6/15/2020	COW_ASB
Phosphorus (P), total in water	0.0066	mg/L	6/15/2020	COW_ASB
Potassium (K), total in water	36.634 ± 18.3%	mg/L	6/15/2020	COW_ASB
Selenium (Se), total in water	0.00243 ± 8.0%	mg/L	6/15/2020	COW_ASB
Sodium (Na), total in water	1526.2 ± 9.2%	mg/L	6/15/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	6/15/2020	COW_ASB
Zinc (Zn), total in water	0.00972 ± 10.7%	mg/L	6/15/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	778	mg/L	6/16/2020	COW_ASB
Total Hardness, calculated in water	1440	mg/L	6/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	12.40 ± 4.4%	NTU	6/4/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/23/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/23/2020	ALS
Arsenic (As), dissolved in water	0.00615	mg/L	6/23/2020	ALS
Barium (Ba), dissolved in water	0.0134	mg/L	6/23/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/23/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/23/2020	ALS
Boron (B), dissolved in water	0.7080	mg/L	6/23/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/23/2020	ALS
Calcium (Ca), dissolved in water	307.0000	mg/L	6/23/2020	ALS
Cesium (Cs), dissolved in water	0.000057	mg/L	6/23/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/23/2020	ALS
Cobalt (Co), dissolved in water	0.00048	mg/L	6/23/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	6/23/2020	ALS
Hardness dissolved in water, calculated	1322.5	mg/L	6/23/2020	ALS
Iron (Fe), dissolved in water	1.2100	mg/L	6/23/2020	ALS
Lead (Pb), dissolved in water	0.000144	mg/L	6/23/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.2180	mg/L	6/23/2020	ALS
Magnesium (Mg), dissolved in water	135.0000	mg/L	6/23/2020	ALS
Manganese (Mn), dissolved in water	0.0315	mg/L	6/23/2020	ALS
Molybdenum (Mo), dissolved in water	0.004130	mg/L	6/23/2020	ALS
Nickel (Ni), dissolved in water	0.00123	mg/L	6/23/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/23/2020	ALS
Potassium (K), dissolved in water	46.8000	mg/L	6/23/2020	ALS
Rubidium (Rb), dissolved in water	0.0256	mg/L	6/23/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/23/2020	ALS
Silicon (Si), dissolved in water	3.9600	mg/L	6/23/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/23/2020	ALS
Sodium (Na), dissolved in water	1560.0000	mg/L	6/23/2020	ALS
Strontium (Sr), dissolved in water	4.7300	mg/L	6/23/2020	ALS
Sulfur (S), dissolved in water	290.0000	mg/L	6/23/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/23/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/23/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/23/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/23/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/23/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/23/2020	ALS
Uranium (U), dissolved in water	0.000409	mg/L	6/23/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/23/2020	ALS
Zinc (Zn), dissolved in water	0.0040	mg/L	6/23/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/23/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.000050	mg/L	6/23/2020	ALS
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Cyanide

Cyanide, Total in water	0.0016	mg/L	6/23/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	93.300	%	6/23/2020	ALS
Surrogate: d14-Terphenyl in water	103.700	%	6/23/2020	ALS
Diazinon in water	<0.1000	ug/L	6/23/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/23/2020	ALS
Total Hydrocarbons (C6-C50)	0.42	mg/L	6/23/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	102.400	%	6/23/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/23/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/23/2020	ALS
Fraction 4 (C34-C50)	0.420	mg/L	6/23/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	6/23/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0005	ug/L	6/23/2020	ALS
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2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/23/2020	ALS
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2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/23/2020	ALS
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2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0010	ug/L	6/23/2020	ALS
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Surrogate: 2,4-Dichlorophenylacetic Acid in water	88.9	%	6/23/2020	ALS
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2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/23/2020	ALS
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Bromoxynil in water	<0.0001	ug/L	6/23/2020	ALS
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Clopyralid in water	<0.0001	ug/L	6/23/2020	ALS
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Dicamba in water	<0.0001	ug/L	6/23/2020	ALS
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Dinoseb in water	<0.0001	ug/L	6/23/2020	ALS
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2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/23/2020	ALS
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2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0010	ug/L	6/23/2020	ALS
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Mecoprop in water	<0.0001	ug/L	6/23/2020	ALS
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Picloram in water	<0.0001	ug/L	6/23/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/23/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/23/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/23/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/23/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/23/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/23/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/23/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	6/23/2020	ALS
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Acenaphthene	<0.000020	mg/L	6/23/2020	ALS
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Acenaphthylene	<0.000020	mg/L	6/23/2020	ALS
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Acridine	<0.000020	mg/L	6/23/2020	ALS
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Anthracene	<0.000010	mg/L	6/23/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	6/23/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	6/23/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	6/23/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	6/23/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	6/23/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	6/23/2020	ALS
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CCME PAHs in mg/L

Chrysene	<0.000020	mg/L	6/23/2020	ALS
Surrogate: d10-Acenaphthene	93.0	%	6/23/2020	ALS
Surrogate: d10-Phenanthrene	96.0	%	6/23/2020	ALS
Surrogate: d12-Chrysene	82.3	%	6/23/2020	ALS
Surrogate: d8-Naphthalene	133.6	%	6/23/2020	ALS
Surrogate: d9-Acridine (SS)	82.5	%	6/23/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	6/23/2020	ALS
Fluoranthene	<0.000020	mg/L	6/23/2020	ALS
Fluorene	<0.000020	mg/L	6/23/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/23/2020	ALS
Naphthalene	<0.000050	mg/L	6/23/2020	ALS
Phenanthrene	<0.000050	mg/L	6/23/2020	ALS
Pyrene	<0.000010	mg/L	6/23/2020	ALS
Quinoline	<0.000020	mg/L	6/23/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	100.1	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303436
Sample Description : GWQ25-W8
Sample Date : June 3, 2020
Sample Received : June 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	142 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, total to pH 4.5	142 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.10 ± 16.9%	mg/L		9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.040 ± 7.5%	mg/L		9/17/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.1	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.1 ± 15%	mg/L		6/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2490 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	748 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<100 ± 6.1%	mg/L		6/29/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8630 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.50 ± 0.07 units	units		6/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5580 ± 6.2%	mg/L		6/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5240 ± 6.5%	mg/L		6/6/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	340.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.2 ± 13%	mg/L		6/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.5 ± 13%	mg/L		6/10/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/9/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.005938 ± 8.1%	mg/L	6/9/2020	COW_ASB
Barium (Ba), total in water	0.011901 ± 11.8%	mg/L	6/9/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/9/2020	COW_ASB
Boron (B), total in water	0.98139 ± 24.2%	mg/L	6/9/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/9/2020	COW_ASB
Calcium (Ca), total in water	359.37 ± 20.9%	mg/L	6/9/2020	COW_ASB
Chromium (Cr), total in water	0.00056 ± 12.8%	mg/L	6/9/2020	COW_ASB
Copper (Cu), total in water	0.000639 ± 12.1%	mg/L	6/9/2020	COW_ASB
Iron (Fe), total in water	0.84809 ± 9.7%	mg/L	6/9/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	6/9/2020	COW_ASB
Magnesium (Mg), total in water	171.71 ± 10.5%	mg/L	6/9/2020	COW_ASB
Manganese (Mn), total in water	0.03058 ± 11.2%	mg/L	6/9/2020	COW_ASB
Nickel (Ni), total in water	0.002100 ± 12.2%	mg/L	6/9/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	6/9/2020	COW_ASB
Potassium (K), total in water	36.379 ± 18.3%	mg/L	6/9/2020	COW_ASB
Selenium (Se), total in water	0.00142 ± 8.0%	mg/L	6/9/2020	COW_ASB
Sodium (Na), total in water	1237.1 ± 9.2%	mg/L	6/9/2020	COW_ASB
Uranium (U), total in water	0.000490 ± 10.0%	mg/L	6/9/2020	COW_ASB
Zinc (Zn), total in water	0.01015 ± 10.7%	mg/L	6/9/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	897	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	1600	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	10.30 ± 4.4%	NTU	6/3/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/18/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/18/2020	ALS
Arsenic (As), dissolved in water	0.00629	mg/L	6/18/2020	ALS
Barium (Ba), dissolved in water	0.0123	mg/L	6/18/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Boron (B), dissolved in water	1.0100	mg/L	6/18/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/18/2020	ALS
Calcium (Ca), dissolved in water	317.0000	mg/L	6/18/2020	ALS
Cesium (Cs), dissolved in water	0.000074	mg/L	6/18/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Cobalt (Co), dissolved in water	0.00065	mg/L	6/18/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	6/18/2020	ALS
Hardness dissolved in water, calculated	1413.4	mg/L	6/18/2020	ALS
Iron (Fe), dissolved in water	0.7380	mg/L	6/18/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/18/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3110	mg/L	6/18/2020	ALS
Magnesium (Mg), dissolved in water	151.0000	mg/L	6/18/2020	ALS
Manganese (Mn), dissolved in water	0.0321	mg/L	6/18/2020	ALS
Molybdenum (Mo), dissolved in water	0.002870	mg/L	6/18/2020	ALS
Nickel (Ni), dissolved in water	0.00139	mg/L	6/18/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/18/2020	ALS
Potassium (K), dissolved in water	35.6000	mg/L	6/18/2020	ALS
Rubidium (Rb), dissolved in water	0.0157	mg/L	6/18/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Silicon (Si), dissolved in water	5.0700	mg/L	6/18/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Sodium (Na), dissolved in water	1030.0000	mg/L	6/18/2020	ALS
Strontium (Sr), dissolved in water	3.7900	mg/L	6/18/2020	ALS
Sulfur (S), dissolved in water	326.0000	mg/L	6/18/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/18/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/18/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Uranium (U), dissolved in water	0.000772	mg/L	6/18/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/18/2020	ALS
Zinc (Zn), dissolved in water	0.0013	mg/L	6/18/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/18/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.000050	mg/L	6/18/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/18/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/18/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	85.200	%	6/18/2020	ALS
Surrogate: d14-Terphenyl in water	97.200	%	6/18/2020	ALS
Diazinon in water	<0.1000	ug/L	6/18/2020	ALS

CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
2-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
Acenaphthene	<0.000020	mg/L	6/18/2020	ALS
Acenaphthylene	<0.000020	mg/L	6/18/2020	ALS
Acridine	<0.000020	mg/L	6/18/2020	ALS
Anthracene	<0.000010	mg/L	6/18/2020	ALS

CCME PAHs in mg/L

B(a)P Total Potency Equivalent	<0.000030	mg/L	6/18/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	6/18/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	6/18/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	6/18/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
Chrysene	<0.000020	mg/L	6/18/2020	ALS
Surrogate: d10-Acenaphthene	89.3	%	6/18/2020	ALS
Surrogate: d10-Phenanthrene	99.2	%	6/18/2020	ALS
Surrogate: d12-Chrysene	88.2	%	6/18/2020	ALS
Surrogate: d8-Naphthalene	87.5	%	6/18/2020	ALS
Surrogate: d9-Acridine (SS)	78.9	%	6/18/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	6/18/2020	ALS
Fluoranthene	<0.000020	mg/L	6/18/2020	ALS
Fluorene	<0.000020	mg/L	6/18/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/18/2020	ALS
Naphthalene	<0.000050	mg/L	6/18/2020	ALS
Phenanthrene	<0.000050	mg/L	6/18/2020	ALS
Pyrene	<0.000010	mg/L	6/18/2020	ALS
Quinoline	<0.000020	mg/L	6/18/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/18/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/18/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	108.400	%	6/18/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/18/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/18/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/18/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	6/18/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0007	ug/L	6/18/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/18/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/18/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/18/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	113.0	%	6/18/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/18/2020	ALS
Bromoxynil in water	<0.0001	ug/L	6/18/2020	ALS
Clopyralid in water	<0.0001	ug/L	6/18/2020	ALS
Dicamba in water	<0.0001	ug/L	6/18/2020	ALS
Dinoseb in water	<0.0001	ug/L	6/18/2020	ALS

Phenoxy Acid Herbicides

2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/18/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/18/2020	ALS
Mecoprop in water	<0.0001	ug/L	6/18/2020	ALS
Picloram in water	<0.0001	ug/L	6/18/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/18/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0040	mg/L	6/18/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/18/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/18/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/18/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.9	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	0.00396	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS
Toluene	<0.00050	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303437
Sample Description : GWQ25-W9
Sample Date : May 27, 2020
Sample Received : May 27, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	141 ± 2.8%	mg/L		5/28/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		5/28/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		5/28/2020	COW_ASB
Alkalinity, total to pH 4.5	141 ± 2.8%	mg/L		5/28/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		5/28/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.38 ± 16.9%	mg/L		5/31/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.006 ± 7.8%	mg/L		5/31/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		5/31/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.3	mg/L		6/2/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.3 ± 15%	mg/L		6/2/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2700 ± 6%	mg/L		5/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	918 ± 10%	mg/L		5/30/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	89.0 ± 6.1%	mg/L		6/1/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	9780 ± 7.2%	uS		5/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.48 ± 0.07 units	units		5/27/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	6120 ± 6.2%	mg/L		5/29/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5800 ± 6.5%	mg/L		5/30/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	319.0	mg/L		5/31/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.2 ± 13%	mg/L		6/2/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.7 ± 13%	mg/L		6/2/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000229 ± 9.2%	mg/L		6/3/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.006121 ± 8.1%	mg/L	6/3/2020	COW_ASB
Barium (Ba), total in water	0.012525 ± 11.8%	mg/L	6/3/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/3/2020	COW_ASB
Boron (B), total in water	1.0628 ± 24.2%	mg/L	6/3/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/3/2020	COW_ASB
Calcium (Ca), total in water	324.69 ± 20.9%	mg/L	6/3/2020	COW_ASB
Chromium (Cr), total in water	0.00056 ± 12.8%	mg/L	6/3/2020	COW_ASB
Copper (Cu), total in water	0.001186 ± 12.1%	mg/L	6/3/2020	COW_ASB
Iron (Fe), total in water	0.99480 ± 9.7%	mg/L	6/3/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	6/3/2020	COW_ASB
Magnesium (Mg), total in water	165.99 ± 10.5%	mg/L	6/3/2020	COW_ASB
Manganese (Mn), total in water	0.01996 ± 11.2%	mg/L	6/3/2020	COW_ASB
Nickel (Ni), total in water	0.001669 ± 12.2%	mg/L	6/3/2020	COW_ASB
Phosphorus (P), total in water	0.0096	mg/L	6/3/2020	COW_ASB
Potassium (K), total in water	36.795 ± 18.3%	mg/L	6/3/2020	COW_ASB
Selenium (Se), total in water	0.00167 ± 8.0%	mg/L	6/3/2020	COW_ASB
Sodium (Na), total in water	1552.8 ± 9.2%	mg/L	6/3/2020	COW_ASB
Uranium (U), total in water	0.000735 ± 10.0%	mg/L	6/3/2020	COW_ASB
Zinc (Zn), total in water	0.00908 ± 10.7%	mg/L	6/3/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	811	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	1490	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	3.04 ± 4.4%	NTU	5/27/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/18/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/18/2020	ALS
Arsenic (As), dissolved in water	0.00695	mg/L	6/18/2020	ALS
Barium (Ba), dissolved in water	0.0111	mg/L	6/18/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Boron (B), dissolved in water	1.2500	mg/L	6/18/2020	ALS
Cadmium (Cd), dissolved in water	0.000013	mg/L	6/18/2020	ALS
Calcium (Ca), dissolved in water	336.0000	mg/L	6/18/2020	ALS
Cesium (Cs), dissolved in water	0.000040	mg/L	6/18/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Cobalt (Co), dissolved in water	0.00079	mg/L	6/18/2020	ALS
Copper (Cu), dissolved in water	0.00052	mg/L	6/18/2020	ALS
Hardness dissolved in water, calculated	1572.0	mg/L	6/18/2020	ALS
Iron (Fe), dissolved in water	0.8190	mg/L	6/18/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/18/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.4310	mg/L	6/18/2020	ALS
Magnesium (Mg), dissolved in water	178.0000	mg/L	6/18/2020	ALS
Manganese (Mn), dissolved in water	0.0220	mg/L	6/18/2020	ALS
Molybdenum (Mo), dissolved in water	0.003580	mg/L	6/18/2020	ALS
Nickel (Ni), dissolved in water	0.00135	mg/L	6/18/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/18/2020	ALS
Potassium (K), dissolved in water	42.6000	mg/L	6/18/2020	ALS
Rubidium (Rb), dissolved in water	0.0179	mg/L	6/18/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Silicon (Si), dissolved in water	5.1200	mg/L	6/18/2020	ALS
Silver (Ag), dissolved in water	0.000093	mg/L	6/18/2020	ALS
Sodium (Na), dissolved in water	1610.0000	mg/L	6/18/2020	ALS
Strontium (Sr), dissolved in water	4.8000	mg/L	6/18/2020	ALS
Sulfur (S), dissolved in water	338.0000	mg/L	6/18/2020	ALS
Tellurium (Te), dissolved in water	0.00026	mg/L	6/18/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/18/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Uranium (U), dissolved in water	0.001080	mg/L	6/18/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/18/2020	ALS
Zinc (Zn), dissolved in water	0.0014	mg/L	6/18/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/18/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.000050	mg/L	6/18/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/18/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	80.000	%	6/18/2020	ALS
Surrogate: d14-Terphenyl in water	81.700	%	6/18/2020	ALS
Diazinon in water	<0.1000	ug/L	6/18/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/18/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/18/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	94.700	%	6/18/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/18/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/18/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/18/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/18/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	6/18/2020	ALS
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2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/18/2020	ALS
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2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/18/2020	ALS
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2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0010	ug/L	6/18/2020	ALS
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Surrogate: 2,4-Dichlorophenylacetic Acid in water	76.2	%	6/18/2020	ALS
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2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/18/2020	ALS
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Bromoxynil in water	<0.0001	ug/L	6/18/2020	ALS
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Clopyralid in water	<0.0001	ug/L	6/18/2020	ALS
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Dicamba in water	<0.0001	ug/L	6/18/2020	ALS
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Dinoseb in water	<0.0010	ug/L	6/18/2020	ALS
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2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/18/2020	ALS
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2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0010	ug/L	6/18/2020	ALS
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Mecoprop in water	<0.0001	ug/L	6/18/2020	ALS
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Picloram in water	<0.0001	ug/L	6/18/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/18/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/18/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/18/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/18/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/18/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthylene	<0.000020	mg/L	6/18/2020	ALS
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Acridine	<0.000020	mg/L	6/18/2020	ALS
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Anthracene	<0.000010	mg/L	6/18/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	6/18/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	6/18/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	6/18/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Chrysene	<0.000020	mg/L	6/18/2020	ALS
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Surrogate: d10-Acenaphthene	94.2	%	6/18/2020	ALS
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CCME PAHs in mg/L

Surrogate: d10-Phenanthrene	99.0	%	6/18/2020	ALS
Surrogate: d12-Chrysene	87.9	%	6/18/2020	ALS
Surrogate: d8-Naphthalene	89.5	%	6/18/2020	ALS
Surrogate: d9-Acridine (SS)	78.0	%	6/18/2020	ALS
Dibenzo(a,h)anthracene	<0.000050	mg/L	6/18/2020	ALS
Fluoranthene	<0.000020	mg/L	6/18/2020	ALS
Fluorene	<0.000020	mg/L	6/18/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/18/2020	ALS
Naphthalene	<0.000050	mg/L	6/18/2020	ALS
Phenanthrene	<0.000050	mg/L	6/18/2020	ALS
Pyrene	<0.000010	mg/L	6/18/2020	ALS
Quinoline	<0.000020	mg/L	6/18/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/18/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.6	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methytertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303438
Sample Description : GWQ25-W11
Sample Date : May 27, 2020
Sample Received : May 27, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	133 ± 2.8%	mg/L		5/28/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		5/28/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		5/28/2020	COW_ASB
Alkalinity, total to pH 4.5	133 ± 2.8%	mg/L		5/28/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		5/28/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.10 ± 16.9%	mg/L		5/31/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.017 ± 7.8%	mg/L		5/31/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		5/31/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.9	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.9 ± 15%	mg/L		6/2/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2680 ± 6%	mg/L		5/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	741 ± 10%	mg/L		5/30/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	73.0 ± 6.1%	mg/L		6/1/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8640 ± 7.2%	uS		5/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.60 ± 0.07 units	units		5/27/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5270 ± 6.2%	mg/L		5/29/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5080 ± 6.5%	mg/L		5/30/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	190.0	mg/L		5/31/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	0.6 ± 13%	mg/L		6/2/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.4 ± 13%	mg/L		6/2/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000796 ± 9.2%	mg/L		6/3/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.005109 ± 8.1%	mg/L	6/3/2020	COW_ASB
Barium (Ba), total in water	0.017292 ± 11.8%	mg/L	6/3/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/3/2020	COW_ASB
Boron (B), total in water	0.93571 ± 24.2%	mg/L	6/3/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/3/2020	COW_ASB
Calcium (Ca), total in water	284.16 ± 20.9%	mg/L	6/3/2020	COW_ASB
Chromium (Cr), total in water	0.00088 ± 12.8%	mg/L	6/3/2020	COW_ASB
Copper (Cu), total in water	0.000838 ± 12.1%	mg/L	6/3/2020	COW_ASB
Iron (Fe), total in water	0.89103 ± 9.7%	mg/L	6/3/2020	COW_ASB
Lead (Pb), total in water	0.000471 ± 8.3%	mg/L	6/3/2020	COW_ASB
Magnesium (Mg), total in water	139.14 ± 10.5%	mg/L	6/3/2020	COW_ASB
Manganese (Mn), total in water	0.03173 ± 11.2%	mg/L	6/3/2020	COW_ASB
Nickel (Ni), total in water	0.001041 ± 12.2%	mg/L	6/3/2020	COW_ASB
Phosphorus (P), total in water	0.0167	mg/L	6/3/2020	COW_ASB
Potassium (K), total in water	36.240 ± 18.3%	mg/L	6/3/2020	COW_ASB
Selenium (Se), total in water	0.00181 ± 8.0%	mg/L	6/3/2020	COW_ASB
Sodium (Na), total in water	1440.2 ± 9.2%	mg/L	6/3/2020	COW_ASB
Uranium (U), total in water	0.000110 ± 10.0%	mg/L	6/3/2020	COW_ASB
Zinc (Zn), total in water	0.01444 ± 10.7%	mg/L	6/3/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	710	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	1280	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	7.65 ± 4.4%	NTU	5/27/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0019	mg/L	6/18/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/18/2020	ALS
Arsenic (As), dissolved in water	0.00609	mg/L	6/18/2020	ALS
Barium (Ba), dissolved in water	0.0153	mg/L	6/18/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Boron (B), dissolved in water	1.1100	mg/L	6/18/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/18/2020	ALS
Calcium (Ca), dissolved in water	294.0000	mg/L	6/18/2020	ALS
Cesium (Cs), dissolved in water	0.000055	mg/L	6/18/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Cobalt (Co), dissolved in water	0.00035	mg/L	6/18/2020	ALS
Copper (Cu), dissolved in water	0.00038	mg/L	6/18/2020	ALS
Hardness dissolved in water, calculated	1401.2	mg/L	6/18/2020	ALS
Iron (Fe), dissolved in water	0.5230	mg/L	6/18/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/18/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3180	mg/L	6/18/2020	ALS
Magnesium (Mg), dissolved in water	162.0000	mg/L	6/18/2020	ALS
Manganese (Mn), dissolved in water	0.0335	mg/L	6/18/2020	ALS
Molybdenum (Mo), dissolved in water	0.003620	mg/L	6/18/2020	ALS
Nickel (Ni), dissolved in water	0.00068	mg/L	6/18/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/18/2020	ALS
Potassium (K), dissolved in water	40.0000	mg/L	6/18/2020	ALS
Rubidium (Rb), dissolved in water	0.0191	mg/L	6/18/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Silicon (Si), dissolved in water	4.8900	mg/L	6/18/2020	ALS
Silver (Ag), dissolved in water	0.000063	mg/L	6/18/2020	ALS
Sodium (Na), dissolved in water	1440.0000	mg/L	6/18/2020	ALS
Strontium (Sr), dissolved in water	3.8200	mg/L	6/18/2020	ALS
Sulfur (S), dissolved in water	291.0000	mg/L	6/18/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/18/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/18/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Uranium (U), dissolved in water	0.000428	mg/L	6/18/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/18/2020	ALS
Zinc (Zn), dissolved in water	0.0010	mg/L	6/18/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/18/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.000050	mg/L	6/18/2020	ALS
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Cyanide

Cyanide, Total in water	0.0012	mg/L	6/18/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	81.500	%	6/18/2020	ALS
Surrogate: d14-Terphenyl in water	80.900	%	6/18/2020	ALS
Diazinon in water	<0.1000	ug/L	6/18/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/18/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/18/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	98.900	%	6/18/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/18/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/18/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/18/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/18/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	6/18/2020	ALS
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2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/18/2020	ALS
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2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/18/2020	ALS
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2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/18/2020	ALS
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Surrogate: 2,4-Dichlorophenylacetic Acid in water	69.4	%	6/18/2020	ALS
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2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/18/2020	ALS
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Bromoxynil in water	<0.0001	ug/L	6/18/2020	ALS
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Clopyralid in water	<0.0001	ug/L	6/18/2020	ALS
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Dicamba in water	<0.0001	ug/L	6/18/2020	ALS
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Dinoseb in water	<0.0001	ug/L	6/18/2020	ALS
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2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/18/2020	ALS
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2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/18/2020	ALS
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Mecoprop in water	<0.0001	ug/L	6/18/2020	ALS
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Picloram in water	<0.0001	ug/L	6/18/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/18/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/18/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/18/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/18/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/18/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthylene	<0.000020	mg/L	6/18/2020	ALS
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Acridine	<0.000020	mg/L	6/18/2020	ALS
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Anthracene	<0.000010	mg/L	6/18/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	6/18/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	6/18/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	6/18/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Chrysene	<0.000020	mg/L	6/18/2020	ALS
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Surrogate: d10-Acenaphthene	95.5	%	6/18/2020	ALS
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CCME PAHs in mg/L

Surrogate: d10-Phenanthrene	100.4	%	6/18/2020	ALS
Surrogate: d12-Chrysene	83.8	%	6/18/2020	ALS
Surrogate: d8-Naphthalene	94.2	%	6/18/2020	ALS
Surrogate: d9-Acridine (SS)	80.2	%	6/18/2020	ALS
Dibenzo(a,h)anthracene	<0.000050	mg/L	6/18/2020	ALS
Fluoranthene	<0.000020	mg/L	6/18/2020	ALS
Fluorene	<0.000020	mg/L	6/18/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/18/2020	ALS
Naphthalene	<0.000050	mg/L	6/18/2020	ALS
Phenanthrene	<0.000050	mg/L	6/18/2020	ALS
Pyrene	<0.000010	mg/L	6/18/2020	ALS
Quinoline	<0.000020	mg/L	6/18/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/18/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	101.2	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303439
Sample Description : GWQ25-W13
Sample Date : June 2, 2020
Sample Received : June 2, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	207 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, total to pH 4.5	207 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.15 ± 16.9%	mg/L		9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.024 ± 7.5%	mg/L		9/17/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.6	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.6 ± 15%	mg/L		6/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2250 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1870 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	80.0 ± 6.1%	mg/L		6/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8540 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.29 ± 0.07 units	units		6/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5650 ± 6.2%	mg/L		6/3/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5220 ± 6.5%	mg/L		6/6/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	426.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.2 ± 13%	mg/L		6/3/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.6 ± 13%	mg/L		6/8/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/9/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.005397 ± 8.1%	mg/L	6/9/2020	COW_ASB
Barium (Ba), total in water	0.011939 ± 11.8%	mg/L	6/9/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/9/2020	COW_ASB
Boron (B), total in water	0.86230 ± 24.2%	mg/L	6/9/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/9/2020	COW_ASB
Calcium (Ca), total in water	515.35 ± 20.9%	mg/L	6/9/2020	COW_ASB
Chromium (Cr), total in water	0.00085 ± 12.8%	mg/L	6/9/2020	COW_ASB
Copper (Cu), total in water	0.000735 ± 12.1%	mg/L	6/9/2020	COW_ASB
Iron (Fe), total in water	0.73313 ± 9.7%	mg/L	6/9/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	6/9/2020	COW_ASB
Magnesium (Mg), total in water	216.22 ± 10.5%	mg/L	6/9/2020	COW_ASB
Manganese (Mn), total in water	0.05557 ± 11.2%	mg/L	6/9/2020	COW_ASB
Nickel (Ni), total in water	0.002724 ± 12.2%	mg/L	6/9/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	6/9/2020	COW_ASB
Potassium (K), total in water	27.700 ± 18.3%	mg/L	6/9/2020	COW_ASB
Selenium (Se), total in water	0.00169 ± 8.0%	mg/L	6/9/2020	COW_ASB
Sodium (Na), total in water	1420.2 ± 9.2%	mg/L	6/9/2020	COW_ASB
Uranium (U), total in water	0.006278 ± 10.0%	mg/L	6/9/2020	COW_ASB
Zinc (Zn), total in water	0.01052 ± 10.7%	mg/L	6/9/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1290	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	2180	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	6.20 ± 4.4%	NTU	6/2/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/24/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/24/2020	ALS
Arsenic (As), dissolved in water	0.00586	mg/L	6/24/2020	ALS
Barium (Ba), dissolved in water	0.0123	mg/L	6/24/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/24/2020	ALS
Boron (B), dissolved in water	0.6740	mg/L	6/24/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/24/2020	ALS
Calcium (Ca), dissolved in water	397.0000	mg/L	6/24/2020	ALS
Cesium (Cs), dissolved in water	0.000032	mg/L	6/24/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Cobalt (Co), dissolved in water	0.00129	mg/L	6/24/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	6/24/2020	ALS
Hardness dissolved in water, calculated	1691.4	mg/L	6/24/2020	ALS
Iron (Fe), dissolved in water	0.4800	mg/L	6/24/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/24/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3880	mg/L	6/24/2020	ALS
Magnesium (Mg), dissolved in water	170.0000	mg/L	6/24/2020	ALS
Manganese (Mn), dissolved in water	0.0529	mg/L	6/24/2020	ALS
Molybdenum (Mo), dissolved in water	0.002090	mg/L	6/24/2020	ALS
Nickel (Ni), dissolved in water	0.00198	mg/L	6/24/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/24/2020	ALS
Potassium (K), dissolved in water	27.2000	mg/L	6/24/2020	ALS
Rubidium (Rb), dissolved in water	0.0095	mg/L	6/24/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/24/2020	ALS
Silicon (Si), dissolved in water	7.3300	mg/L	6/24/2020	ALS
Silver (Ag), dissolved in water	0.000014	mg/L	6/24/2020	ALS
Sodium (Na), dissolved in water	1250.0000	mg/L	6/24/2020	ALS
Strontium (Sr), dissolved in water	3.8900	mg/L	6/24/2020	ALS
Sulfur (S), dissolved in water	310.0000	mg/L	6/24/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/24/2020	ALS
Thallium (Tl), dissolved in water	0.000015	mg/L	6/24/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/24/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Uranium (U), dissolved in water	0.005800	mg/L	6/24/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/24/2020	ALS
Zinc (Zn), dissolved in water	0.0017	mg/L	6/24/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/24/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.000050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	87.600	%	6/24/2020	ALS
Surrogate: d14-Terphenyl in water	96.700	%	6/24/2020	ALS
Diazinon in water	<0.1000	ug/L	6/24/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/24/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/24/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	102.100	%	6/24/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/24/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/24/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/24/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	6/24/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0006	ug/L	6/24/2020	ALS
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2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/24/2020	ALS
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2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/24/2020	ALS
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2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/24/2020	ALS
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Surrogate: 2,4-Dichlorophenylacetic Acid in water	94.1	%	6/24/2020	ALS
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2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/24/2020	ALS
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Bromoxynil in water	<0.0001	ug/L	6/24/2020	ALS
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Clopyralid in water	<0.0001	ug/L	6/24/2020	ALS
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Dicamba in water	<0.0001	ug/L	6/24/2020	ALS
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Dinoseb in water	<0.0001	ug/L	6/24/2020	ALS
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2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/24/2020	ALS
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2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/24/2020	ALS
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Mecoprop in water	<0.0001	ug/L	6/24/2020	ALS
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Picloram in water	<0.0001	ug/L	6/24/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0027	mg/L	6/24/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/24/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/24/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/24/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	6/24/2020	ALS
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Acenaphthene	<0.000020	mg/L	6/24/2020	ALS
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Acenaphthylene	<0.000020	mg/L	6/24/2020	ALS
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Acridine	<0.000020	mg/L	6/24/2020	ALS
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Anthracene	<0.000010	mg/L	6/24/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	6/24/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	6/24/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	6/24/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	6/24/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	6/24/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	6/24/2020	ALS
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CCME PAHs in mg/L

Chrysene	<0.000020	mg/L	6/24/2020	ALS
Surrogate: d10-Acenaphthene	90.0	%	6/24/2020	ALS
Surrogate: d10-Phenanthrene	97.1	%	6/24/2020	ALS
Surrogate: d12-Chrysene	86.9	%	6/24/2020	ALS
Surrogate: d8-Naphthalene	86.9	%	6/24/2020	ALS
Surrogate: d9-Acridine (SS)	79.7	%	6/24/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	6/24/2020	ALS
Fluoranthene	<0.000020	mg/L	6/24/2020	ALS
Fluorene	<0.000020	mg/L	6/24/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/24/2020	ALS
Naphthalene	<0.000050	mg/L	6/24/2020	ALS
Phenanthrene	<0.000050	mg/L	6/24/2020	ALS
Pyrene	<0.000010	mg/L	6/24/2020	ALS
Quinoline	<0.000020	mg/L	6/24/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	100.9	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	0.00273	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303440
Sample Description : GWQ25-W14
Sample Date : June 3, 2020
Sample Received : June 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	139 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, total to pH 4.5	139 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.14 ± 16.9%	mg/L		9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.003 ± 7.8%	mg/L		9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.035 ± 7.5%	mg/L		9/17/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.1	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.1 ± 15%	mg/L		6/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2330 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2000 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<100 ± 6.1%	mg/L		6/29/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8940 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.47 ± 0.07 units	units		6/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5810 ± 6.2%	mg/L		6/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5390 ± 6.5%	mg/L		6/6/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	412.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.8 ± 13%	mg/L		6/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.4 ± 13%	mg/L		6/10/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/9/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.005475 ± 8.1%	mg/L	6/9/2020	COW_ASB
Barium (Ba), total in water	0.013441 ± 11.8%	mg/L	6/9/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/9/2020	COW_ASB
Boron (B), total in water	1.0944 ± 24.2%	mg/L	6/9/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/9/2020	COW_ASB
Calcium (Ca), total in water	357.73 ± 20.9%	mg/L	6/9/2020	COW_ASB
Chromium (Cr), total in water	0.00053 ± 12.8%	mg/L	6/9/2020	COW_ASB
Copper (Cu), total in water	0.000530 ± 12.1%	mg/L	6/9/2020	COW_ASB
Iron (Fe), total in water	0.95117 ± 9.7%	mg/L	6/9/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	6/9/2020	COW_ASB
Magnesium (Mg), total in water	165.62 ± 10.5%	mg/L	6/9/2020	COW_ASB
Manganese (Mn), total in water	0.02789 ± 11.2%	mg/L	6/9/2020	COW_ASB
Nickel (Ni), total in water	0.001718 ± 12.2%	mg/L	6/9/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	6/9/2020	COW_ASB
Potassium (K), total in water	41.960 ± 18.3%	mg/L	6/9/2020	COW_ASB
Selenium (Se), total in water	0.00190 ± 8.0%	mg/L	6/9/2020	COW_ASB
Sodium (Na), total in water	1564.1 ± 9.2%	mg/L	6/9/2020	COW_ASB
Uranium (U), total in water	0.000420 ± 10.0%	mg/L	6/9/2020	COW_ASB
Zinc (Zn), total in water	0.00874 ± 10.7%	mg/L	6/9/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	893	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	1580	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	5.79 ± 4.4%	NTU	6/3/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/18/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/18/2020	ALS
Arsenic (As), dissolved in water	0.00564	mg/L	6/18/2020	ALS
Barium (Ba), dissolved in water	0.0133	mg/L	6/18/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Boron (B), dissolved in water	1.0800	mg/L	6/18/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/18/2020	ALS
Calcium (Ca), dissolved in water	329.0000	mg/L	6/18/2020	ALS
Cesium (Cs), dissolved in water	0.000072	mg/L	6/18/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Cobalt (Co), dissolved in water	0.00061	mg/L	6/18/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	6/18/2020	ALS
Hardness dissolved in water, calculated	1431.0	mg/L	6/18/2020	ALS
Iron (Fe), dissolved in water	0.6510	mg/L	6/18/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/18/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3250	mg/L	6/18/2020	ALS
Magnesium (Mg), dissolved in water	148.0000	mg/L	6/18/2020	ALS
Manganese (Mn), dissolved in water	0.0275	mg/L	6/18/2020	ALS
Molybdenum (Mo), dissolved in water	0.003000	mg/L	6/18/2020	ALS
Nickel (Ni), dissolved in water	0.00124	mg/L	6/18/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/18/2020	ALS
Potassium (K), dissolved in water	39.6000	mg/L	6/18/2020	ALS
Rubidium (Rb), dissolved in water	0.0178	mg/L	6/18/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Silicon (Si), dissolved in water	5.0700	mg/L	6/18/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Sodium (Na), dissolved in water	1100.0000	mg/L	6/18/2020	ALS
Strontium (Sr), dissolved in water	3.9000	mg/L	6/18/2020	ALS
Sulfur (S), dissolved in water	344.0000	mg/L	6/18/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/18/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/18/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Uranium (U), dissolved in water	0.000732	mg/L	6/18/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/18/2020	ALS
Zinc (Zn), dissolved in water	0.0012	mg/L	6/18/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/18/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.000050	mg/L	6/18/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/18/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/18/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	88.200	%	6/18/2020	ALS
Surrogate: d14-Terphenyl in water	99.100	%	6/18/2020	ALS
Diazinon in water	<0.1000	ug/L	6/18/2020	ALS

CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
2-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
Acenaphthene	<0.000020	mg/L	6/18/2020	ALS
Acenaphthylene	<0.000020	mg/L	6/18/2020	ALS
Acridine	<0.000020	mg/L	6/18/2020	ALS
Anthracene	<0.000010	mg/L	6/18/2020	ALS

CCME PAHs in mg/L

B(a)P Total Potency Equivalent	<0.000030	mg/L	6/18/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	6/18/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	6/18/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	6/18/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
Chrysene	<0.000020	mg/L	6/18/2020	ALS
Surrogate: d10-Acenaphthene	87.9	%	6/18/2020	ALS
Surrogate: d10-Phenanthrene	97.6	%	6/18/2020	ALS
Surrogate: d12-Chrysene	91.7	%	6/18/2020	ALS
Surrogate: d8-Naphthalene	90.1	%	6/18/2020	ALS
Surrogate: d9-Acridine (SS)	80.9	%	6/18/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	6/18/2020	ALS
Fluoranthene	<0.000020	mg/L	6/18/2020	ALS
Fluorene	<0.000020	mg/L	6/18/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/18/2020	ALS
Naphthalene	<0.000050	mg/L	6/18/2020	ALS
Phenanthrene	<0.000050	mg/L	6/18/2020	ALS
Pyrene	<0.000010	mg/L	6/18/2020	ALS
Quinoline	<0.000020	mg/L	6/18/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/18/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/18/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	106.800	%	6/18/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/18/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/18/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/18/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	6/18/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0007	ug/L	6/18/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/18/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/18/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/18/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	102.0	%	6/18/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/18/2020	ALS
Bromoxynil in water	<0.0001	ug/L	6/18/2020	ALS
Clopyralid in water	<0.0001	ug/L	6/18/2020	ALS
Dicamba in water	<0.0001	ug/L	6/18/2020	ALS
Dinoseb in water	<0.0001	ug/L	6/18/2020	ALS

Phenoxy Acid Herbicides

2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/18/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/18/2020	ALS
Mecoprop in water	<0.0001	ug/L	6/18/2020	ALS
Picloram in water	<0.0001	ug/L	6/18/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/18/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/18/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/18/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/18/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/18/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	98.9	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	0.00088	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS
Toluene	<0.00050	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303441
Sample Description : GWQ25-W15
Sample Date : June 2, 2020
Sample Received : June 2, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	144 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, total to pH 4.5	144 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.03 ± 16.9%	mg/L		9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.012 ± 7.8%	mg/L		9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.022 ± 7.5%	mg/L		9/17/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.5 ± 15%	mg/L		6/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2530 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	790 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	84.0 ± 6.1%	mg/L		6/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8160 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.52 ± 0.07 units	units		6/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5220 ± 6.2%	mg/L		6/3/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5050 ± 6.5%	mg/L		6/6/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	178.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.0 ± 13%	mg/L		6/3/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.4 ± 13%	mg/L		6/8/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/9/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.006219 ± 8.1%	mg/L	6/9/2020	COW_ASB
Barium (Ba), total in water	0.012481 ± 11.8%	mg/L	6/9/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/9/2020	COW_ASB
Boron (B), total in water	0.95575 ± 24.2%	mg/L	6/9/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/9/2020	COW_ASB
Calcium (Ca), total in water	333.72 ± 20.9%	mg/L	6/9/2020	COW_ASB
Chromium (Cr), total in water	0.00072 ± 12.8%	mg/L	6/9/2020	COW_ASB
Copper (Cu), total in water	0.000415 ± 12.1%	mg/L	6/9/2020	COW_ASB
Iron (Fe), total in water	0.77877 ± 9.7%	mg/L	6/9/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	6/9/2020	COW_ASB
Magnesium (Mg), total in water	167.28 ± 10.5%	mg/L	6/9/2020	COW_ASB
Manganese (Mn), total in water	0.03398 ± 11.2%	mg/L	6/9/2020	COW_ASB
Nickel (Ni), total in water	0.001836 ± 12.2%	mg/L	6/9/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	6/9/2020	COW_ASB
Potassium (K), total in water	36.030 ± 18.3%	mg/L	6/9/2020	COW_ASB
Selenium (Se), total in water	0.00106 ± 8.0%	mg/L	6/9/2020	COW_ASB
Sodium (Na), total in water	1249.2 ± 9.2%	mg/L	6/9/2020	COW_ASB
Uranium (U), total in water	0.000525 ± 10.0%	mg/L	6/9/2020	COW_ASB
Zinc (Zn), total in water	0.00950 ± 10.7%	mg/L	6/9/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	833	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	1520	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.72 ± 4.4%	NTU	6/2/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/24/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/24/2020	ALS
Arsenic (As), dissolved in water	0.00671	mg/L	6/24/2020	ALS
Barium (Ba), dissolved in water	0.0133	mg/L	6/24/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/24/2020	ALS
Boron (B), dissolved in water	0.9200	mg/L	6/24/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/24/2020	ALS
Calcium (Ca), dissolved in water	351.0000	mg/L	6/24/2020	ALS
Cesium (Cs), dissolved in water	0.000060	mg/L	6/24/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Cobalt (Co), dissolved in water	0.00067	mg/L	6/24/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	6/24/2020	ALS
Hardness dissolved in water, calculated	1457.1	mg/L	6/24/2020	ALS
Iron (Fe), dissolved in water	0.6370	mg/L	6/24/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/24/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3280	mg/L	6/24/2020	ALS
Magnesium (Mg), dissolved in water	141.0000	mg/L	6/24/2020	ALS
Manganese (Mn), dissolved in water	0.0324	mg/L	6/24/2020	ALS
Molybdenum (Mo), dissolved in water	0.002980	mg/L	6/24/2020	ALS
Nickel (Ni), dissolved in water	0.00138	mg/L	6/24/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/24/2020	ALS
Potassium (K), dissolved in water	32.8000	mg/L	6/24/2020	ALS
Rubidium (Rb), dissolved in water	0.0144	mg/L	6/24/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/24/2020	ALS
Silicon (Si), dissolved in water	5.7300	mg/L	6/24/2020	ALS
Silver (Ag), dissolved in water	0.000012	mg/L	6/24/2020	ALS
Sodium (Na), dissolved in water	1320.0000	mg/L	6/24/2020	ALS
Strontium (Sr), dissolved in water	4.2200	mg/L	6/24/2020	ALS
Sulfur (S), dissolved in water	310.0000	mg/L	6/24/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/24/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/24/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/24/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Uranium (U), dissolved in water	0.000988	mg/L	6/24/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/24/2020	ALS
Zinc (Zn), dissolved in water	0.0014	mg/L	6/24/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/24/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.000050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	81.000	%	6/24/2020	ALS
Surrogate: d14-Terphenyl in water	101.700	%	6/24/2020	ALS
Diazinon in water	<0.1000	ug/L	6/24/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/24/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/24/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	102.900	%	6/24/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/24/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/24/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/24/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/24/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	6/24/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/24/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/24/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/24/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	107.0	%	6/24/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/24/2020	ALS
Bromoxynil in water	<0.0001	ug/L	6/24/2020	ALS
Clopyralid in water	<0.0001	ug/L	6/24/2020	ALS
Dicamba in water	<0.0001	ug/L	6/24/2020	ALS
Dinoseb in water	<0.0001	ug/L	6/24/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/24/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/24/2020	ALS
Mecoprop in water	<0.0001	ug/L	6/24/2020	ALS
Picloram in water	<0.0001	ug/L	6/24/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/24/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/24/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/24/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/24/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/24/2020	ALS
2-Methyl Naphthalene	<0.000020	mg/L	6/24/2020	ALS
Acenaphthene	<0.000020	mg/L	6/24/2020	ALS
Acenaphthylene	<0.000020	mg/L	6/24/2020	ALS
Acridine	<0.000020	mg/L	6/24/2020	ALS
Anthracene	<0.000010	mg/L	6/24/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	6/24/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	6/24/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	6/24/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	6/24/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	6/24/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	6/24/2020	ALS

CCME PAHs in mg/L

Chrysene	<0.000020	mg/L	6/24/2020	ALS
Surrogate: d10-Acenaphthene	93.4	%	6/24/2020	ALS
Surrogate: d10-Phenanthrene	99.4	%	6/24/2020	ALS
Surrogate: d12-Chrysene	87.2	%	6/24/2020	ALS
Surrogate: d8-Naphthalene	89.2	%	6/24/2020	ALS
Surrogate: d9-Acridine (SS)	80.2	%	6/24/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	6/24/2020	ALS
Fluoranthene	<0.000020	mg/L	6/24/2020	ALS
Fluorene	<0.000020	mg/L	6/24/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/24/2020	ALS
Naphthalene	<0.000050	mg/L	6/24/2020	ALS
Phenanthrene	<0.000050	mg/L	6/24/2020	ALS
Pyrene	<0.000010	mg/L	6/24/2020	ALS
Quinoline	<0.000020	mg/L	6/24/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	100.8	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303442
Sample Description : GWQ25-W16
Sample Date : June 2, 2020
Sample Received : June 2, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	143 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, total to pH 4.5	143 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.00 ± 16.9%	mg/L		9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.005 ± 7.8%	mg/L		9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.022 ± 7.5%	mg/L		9/17/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.4 ± 15%	mg/L		6/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2310 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	723 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	64.0 ± 6.1%	mg/L		6/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8040 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.59 ± 0.07 units	units		6/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5360 ± 6.2%	mg/L		6/3/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4940 ± 6.5%	mg/L		6/6/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	427.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	0.8 ± 13%	mg/L		6/3/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.3 ± 13%	mg/L		6/8/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/9/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.004868 ± 8.1%	mg/L	6/9/2020	COW_ASB
Barium (Ba), total in water	0.011815 ± 11.8%	mg/L	6/9/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/9/2020	COW_ASB
Boron (B), total in water	0.87403 ± 24.2%	mg/L	6/9/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/9/2020	COW_ASB
Calcium (Ca), total in water	361.40 ± 20.9%	mg/L	6/9/2020	COW_ASB
Chromium (Cr), total in water	0.04295 ± 12.8%	mg/L	6/9/2020	COW_ASB
Copper (Cu), total in water	0.001311 ± 12.1%	mg/L	6/9/2020	COW_ASB
Iron (Fe), total in water	1.2541 ± 9.7%	mg/L	6/9/2020	COW_ASB
Lead (Pb), total in water	0.000385 ± 8.3%	mg/L	6/9/2020	COW_ASB
Magnesium (Mg), total in water	178.43 ± 10.5%	mg/L	6/9/2020	COW_ASB
Manganese (Mn), total in water	0.04149 ± 11.2%	mg/L	6/9/2020	COW_ASB
Nickel (Ni), total in water	0.022969 ± 12.2%	mg/L	6/9/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	6/9/2020	COW_ASB
Potassium (K), total in water	35.285 ± 18.3%	mg/L	6/9/2020	COW_ASB
Selenium (Se), total in water	0.00145 ± 8.0%	mg/L	6/9/2020	COW_ASB
Sodium (Na), total in water	1379.9 ± 9.2%	mg/L	6/9/2020	COW_ASB
Uranium (U), total in water	0.000459 ± 10.0%	mg/L	6/9/2020	COW_ASB
Zinc (Zn), total in water	0.01475 ± 10.7%	mg/L	6/9/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	902	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	1640	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	18.20 ± 4.4%	NTU	6/2/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/24/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/24/2020	ALS
Arsenic (As), dissolved in water	0.00563	mg/L	6/24/2020	ALS
Barium (Ba), dissolved in water	0.0114	mg/L	6/24/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/24/2020	ALS
Boron (B), dissolved in water	0.7910	mg/L	6/24/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/24/2020	ALS
Calcium (Ca), dissolved in water	305.0000	mg/L	6/24/2020	ALS
Cesium (Cs), dissolved in water	0.000046	mg/L	6/24/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Cobalt (Co), dissolved in water	0.00058	mg/L	6/24/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	6/24/2020	ALS
Hardness dissolved in water, calculated	1350.5	mg/L	6/24/2020	ALS
Iron (Fe), dissolved in water	0.6160	mg/L	6/24/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/24/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3250	mg/L	6/24/2020	ALS
Magnesium (Mg), dissolved in water	143.0000	mg/L	6/24/2020	ALS
Manganese (Mn), dissolved in water	0.0344	mg/L	6/24/2020	ALS
Molybdenum (Mo), dissolved in water	0.002220	mg/L	6/24/2020	ALS
Nickel (Ni), dissolved in water	0.00129	mg/L	6/24/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/24/2020	ALS
Potassium (K), dissolved in water	32.4000	mg/L	6/24/2020	ALS
Rubidium (Rb), dissolved in water	0.0147	mg/L	6/24/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/24/2020	ALS
Silicon (Si), dissolved in water	4.9600	mg/L	6/24/2020	ALS
Silver (Ag), dissolved in water	0.000012	mg/L	6/24/2020	ALS
Sodium (Na), dissolved in water	1310.0000	mg/L	6/24/2020	ALS
Strontium (Sr), dissolved in water	3.7600	mg/L	6/24/2020	ALS
Sulfur (S), dissolved in water	286.0000	mg/L	6/24/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/24/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/24/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/24/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Uranium (U), dissolved in water	0.000669	mg/L	6/24/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/24/2020	ALS
Zinc (Zn), dissolved in water	0.0021	mg/L	6/24/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/24/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.000050	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	83.000	%	6/24/2020	ALS
Surrogate: d14-Terphenyl in water	88.200	%	6/24/2020	ALS
Diazinon in water	<0.1000	ug/L	6/24/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/24/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/24/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	102.800	%	6/24/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/24/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/24/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/24/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	6/24/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0007	ug/L	6/24/2020	ALS
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2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/24/2020	ALS
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2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/24/2020	ALS
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2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/24/2020	ALS
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Surrogate: 2,4-Dichlorophenylacetic Acid in water	82.5	%	6/24/2020	ALS
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2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/24/2020	ALS
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Bromoxynil in water	<0.0001	ug/L	6/24/2020	ALS
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Clopyralid in water	<0.0001	ug/L	6/24/2020	ALS
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Dicamba in water	<0.0001	ug/L	6/24/2020	ALS
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Dinoseb in water	<0.0001	ug/L	6/24/2020	ALS
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2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/24/2020	ALS
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2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/24/2020	ALS
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Mecoprop in water	<0.0001	ug/L	6/24/2020	ALS
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Picloram in water	<0.0001	ug/L	6/24/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0053	mg/L	6/24/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/24/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/24/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/24/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	6/24/2020	ALS
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Acenaphthene	<0.000020	mg/L	6/24/2020	ALS
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Acenaphthylene	<0.000020	mg/L	6/24/2020	ALS
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Acridine	<0.000020	mg/L	6/24/2020	ALS
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Anthracene	<0.000010	mg/L	6/24/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	6/24/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	6/24/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	6/24/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	6/24/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	6/24/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	6/24/2020	ALS
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CCME PAHs in mg/L

Chrysene	<0.000020	mg/L	6/24/2020	ALS
Surrogate: d10-Acenaphthene	90.3	%	6/24/2020	ALS
Surrogate: d10-Phenanthrene	99.6	%	6/24/2020	ALS
Surrogate: d12-Chrysene	86.8	%	6/24/2020	ALS
Surrogate: d8-Naphthalene	88.6	%	6/24/2020	ALS
Surrogate: d9-Acridine (SS)	80.0	%	6/24/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	6/24/2020	ALS
Fluoranthene	<0.000020	mg/L	6/24/2020	ALS
Fluorene	<0.000020	mg/L	6/24/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/24/2020	ALS
Naphthalene	<0.000050	mg/L	6/24/2020	ALS
Phenanthrene	<0.000050	mg/L	6/24/2020	ALS
Pyrene	<0.000010	mg/L	6/24/2020	ALS
Quinoline	<0.000020	mg/L	6/24/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	98.6	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	0.0041	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	0.00057	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	0.0006	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methytertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303443
Sample Description : GWQ25-W5
Sample Date : May 28, 2020
Sample Received : May 29, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	132 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, total to pH 4.5	132 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		5/29/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.12 ± 16.9%	mg/L		5/31/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		5/31/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		5/31/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.3	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.3 ± 15%	mg/L		6/2/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2210 ± 6%	mg/L		5/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	836 ± 10%	mg/L		5/30/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	67.0 ± 6.1%	mg/L		6/1/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8260 ± 7.2%	uS		5/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.52 ± 0.07 units	units		5/29/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5440 ± 6.2%	mg/L		5/31/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4960 ± 6.5%	mg/L		5/30/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	488.0	mg/L		5/31/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.3 ± 13%	mg/L		6/2/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.9 ± 13%	mg/L		6/2/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000756 ± 9.2%	mg/L		6/3/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.004546 ± 8.1%	mg/L	6/3/2020	COW_ASB
Barium (Ba), total in water	0.015022 ± 11.8%	mg/L	6/3/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/3/2020	COW_ASB
Boron (B), total in water	0.96631 ± 24.2%	mg/L	6/3/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/3/2020	COW_ASB
Calcium (Ca), total in water	315.94 ± 20.9%	mg/L	6/3/2020	COW_ASB
Chromium (Cr), total in water	0.00068 ± 12.8%	mg/L	6/3/2020	COW_ASB
Copper (Cu), total in water	0.000224 ± 12.1%	mg/L	6/3/2020	COW_ASB
Iron (Fe), total in water	0.72148 ± 9.7%	mg/L	6/3/2020	COW_ASB
Lead (Pb), total in water	0.000300 ± 8.3%	mg/L	6/3/2020	COW_ASB
Magnesium (Mg), total in water	169.99 ± 10.5%	mg/L	6/3/2020	COW_ASB
Manganese (Mn), total in water	0.02321 ± 11.2%	mg/L	6/3/2020	COW_ASB
Nickel (Ni), total in water	0.001432 ± 12.2%	mg/L	6/3/2020	COW_ASB
Phosphorus (P), total in water	0.0025	mg/L	6/3/2020	COW_ASB
Potassium (K), total in water	33.855 ± 18.3%	mg/L	6/3/2020	COW_ASB
Selenium (Se), total in water	0.00232 ± 8.0%	mg/L	6/3/2020	COW_ASB
Sodium (Na), total in water	1352.5 ± 9.2%	mg/L	6/3/2020	COW_ASB
Uranium (U), total in water	0.000128 ± 10.0%	mg/L	6/3/2020	COW_ASB
Zinc (Zn), total in water	0.15164 ± 10.7%	mg/L	6/3/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	789	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	1490	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	8.26 ± 4.4%	NTU	5/29/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/17/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/17/2020	ALS
Arsenic (As), dissolved in water	0.00532	mg/L	6/17/2020	ALS
Barium (Ba), dissolved in water	0.0160	mg/L	6/17/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/17/2020	ALS
Boron (B), dissolved in water	1.0300	mg/L	6/17/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/17/2020	ALS
Calcium (Ca), dissolved in water	304.0000	mg/L	6/17/2020	ALS
Cesium (Cs), dissolved in water	0.000074	mg/L	6/17/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Cobalt (Co), dissolved in water	0.00044	mg/L	6/17/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	6/17/2020	ALS
Hardness dissolved in water, calculated	1648.6	mg/L	6/17/2020	ALS
Iron (Fe), dissolved in water	0.6780	mg/L	6/17/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/17/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.2740	mg/L	6/17/2020	ALS
Magnesium (Mg), dissolved in water	216.0000	mg/L	6/17/2020	ALS
Manganese (Mn), dissolved in water	0.0286	mg/L	6/17/2020	ALS
Molybdenum (Mo), dissolved in water	0.002190	mg/L	6/17/2020	ALS
Nickel (Ni), dissolved in water	0.00128	mg/L	6/17/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/17/2020	ALS
Potassium (K), dissolved in water	42.1000	mg/L	6/17/2020	ALS
Rubidium (Rb), dissolved in water	0.0168	mg/L	6/17/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/17/2020	ALS
Silicon (Si), dissolved in water	5.9800	mg/L	6/17/2020	ALS
Silver (Ag), dissolved in water	0.000065	mg/L	6/17/2020	ALS
Sodium (Na), dissolved in water	1270.0000	mg/L	6/17/2020	ALS
Strontium (Sr), dissolved in water	4.2600	mg/L	6/17/2020	ALS
Sulfur (S), dissolved in water	302.0000	mg/L	6/17/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/17/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/17/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/17/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Uranium (U), dissolved in water	0.000456	mg/L	6/17/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/17/2020	ALS
Zinc (Zn), dissolved in water	0.0270	mg/L	6/17/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/17/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.000050	mg/L	6/17/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/17/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	83.500	%	6/17/2020	ALS
Surrogate: d14-Terphenyl in water	85.600	%	6/17/2020	ALS
Diazinon in water	<0.1000	ug/L	6/17/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/17/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/17/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	100.700	%	6/17/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/17/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/17/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/17/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	6/17/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	6/17/2020	ALS
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2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	6/17/2020	ALS
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2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	6/17/2020	ALS
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2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0010	ug/L	6/17/2020	ALS
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Surrogate: 2,4-Dichlorophenylacetic Acid in water	118.0	%	6/17/2020	ALS
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2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0010	ug/L	6/17/2020	ALS
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Bromoxynil in water	<0.0010	ug/L	6/17/2020	ALS
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Clopyralid in water	<0.0010	ug/L	6/17/2020	ALS
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Dicamba in water	<0.0010	ug/L	6/17/2020	ALS
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Dinoseb in water	<0.0010	ug/L	6/17/2020	ALS
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2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	6/17/2020	ALS
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2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0010	ug/L	6/17/2020	ALS
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Mecoprop in water	<0.0010	ug/L	6/17/2020	ALS
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Picloram in water	<0.0010	ug/L	6/17/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/17/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/17/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthylene	<0.000020	mg/L	6/18/2020	ALS
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Acridine	<0.000020	mg/L	6/18/2020	ALS
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Anthracene	<0.000010	mg/L	6/18/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	6/18/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	6/18/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	6/18/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Chrysene	<0.000020	mg/L	6/18/2020	ALS
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Surrogate: d10-Acenaphthene	96.0	%	6/18/2020	ALS
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CCME PAHs in mg/L

Surrogate: d10-Phenanthrene	101.0	%	6/18/2020	ALS
Surrogate: d12-Chrysene	86.3	%	6/18/2020	ALS
Surrogate: d8-Naphthalene	97.4	%	6/18/2020	ALS
Surrogate: d9-Acridine (SS)	82.5	%	6/18/2020	ALS
Dibenzo(a,h)anthracene	<0.000050	mg/L	6/18/2020	ALS
Fluoranthene	<0.000020	mg/L	6/18/2020	ALS
Fluorene	<0.000020	mg/L	6/18/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/18/2020	ALS
Naphthalene	<0.000050	mg/L	6/18/2020	ALS
Phenanthrene	<0.000050	mg/L	6/18/2020	ALS
Pyrene	<0.000010	mg/L	6/18/2020	ALS
Quinoline	<0.000020	mg/L	6/18/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/18/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.1	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methytertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303444
Sample Description : GWQ25-W7
Sample Date : June 4, 2020
Sample Received : June 4, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	129 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, total to pH 4.5	129 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	2.3	mg/L		9/30/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	2.3 ± 15%	mg/L		6/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2020 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	615 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	49.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	7100 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.55 ± 0.07 units	units		6/4/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	4490 ± 6.2%	mg/L		6/5/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4090 ± 6.5%	mg/L		6/6/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	394.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.1 ± 13%	mg/L		6/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.4 ± 13%	mg/L		6/10/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000409 ± 9.2%	mg/L		6/15/2020	COW_ASB
Arsenic (As), total in water	0.002751 ± 8.1%	mg/L		6/15/2020	COW_ASB
Barium (Ba), total in water	0.012335 ± 11.8%	mg/L		6/15/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		6/15/2020	COW_ASB
Boron (B), total in water	0.85223 ± 24.2%	mg/L		6/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/15/2020	COW_ASB
Calcium (Ca), total in water	248.87 ± 20.9%	mg/L	6/15/2020	COW_ASB
Chromium (Cr), total in water	0.00077 ± 12.8%	mg/L	6/15/2020	COW_ASB
Copper (Cu), total in water	0.000709 ± 12.1%	mg/L	6/15/2020	COW_ASB
Iron (Fe), total in water	0.96112 ± 9.7%	mg/L	6/15/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	6/15/2020	COW_ASB
Magnesium (Mg), total in water	117.95 ± 10.5%	mg/L	6/15/2020	COW_ASB
Manganese (Mn), total in water	0.01073 ± 11.2%	mg/L	6/15/2020	COW_ASB
Nickel (Ni), total in water	<0.000021 ± 12.2%	mg/L	6/15/2020	COW_ASB
Phosphorus (P), total in water	0.0049	mg/L	6/15/2020	COW_ASB
Potassium (K), total in water	26.969 ± 18.3%	mg/L	6/15/2020	COW_ASB
Selenium (Se), total in water	0.00162 ± 8.0%	mg/L	6/15/2020	COW_ASB
Sodium (Na), total in water	1034.1 ± 9.2%	mg/L	6/15/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	6/15/2020	COW_ASB
Zinc (Zn), total in water	0.00754 ± 10.7%	mg/L	6/15/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	621	mg/L	6/16/2020	COW_ASB
Total Hardness, calculated in water	1110	mg/L	6/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	10.80 ± 4.4%	NTU	6/4/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/23/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/23/2020	ALS
Arsenic (As), dissolved in water	0.00161	mg/L	6/23/2020	ALS
Barium (Ba), dissolved in water	0.0130	mg/L	6/23/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/23/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/23/2020	ALS
Boron (B), dissolved in water	0.6190	mg/L	6/23/2020	ALS
Cadmium (Cd), dissolved in water	<0.000050	mg/L	6/23/2020	ALS
Calcium (Ca), dissolved in water	243.0000	mg/L	6/23/2020	ALS
Cesium (Cs), dissolved in water	0.000097	mg/L	6/23/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/23/2020	ALS
Cobalt (Co), dissolved in water	<0.00010	mg/L	6/23/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	6/23/2020	ALS
Hardness dissolved in water, calculated	1016.5	mg/L	6/23/2020	ALS
Iron (Fe), dissolved in water	0.2820	mg/L	6/23/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/23/2020	ALS
Lithium (Li), dissolved in water	0.1630	mg/L	6/23/2020	ALS
Magnesium (Mg), dissolved in water	99.5000	mg/L	6/23/2020	ALS
Manganese (Mn), dissolved in water	0.0091	mg/L	6/23/2020	ALS
Molybdenum (Mo), dissolved in water	0.003530	mg/L	6/23/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	<0.00050	mg/L	6/23/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/23/2020	ALS
Potassium (K), dissolved in water	30.6000	mg/L	6/23/2020	ALS
Rubidium (Rb), dissolved in water	0.0177	mg/L	6/23/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/23/2020	ALS
Silicon (Si), dissolved in water	4.3800	mg/L	6/23/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/23/2020	ALS
Sodium (Na), dissolved in water	956.0000	mg/L	6/23/2020	ALS
Strontium (Sr), dissolved in water	3.1900	mg/L	6/23/2020	ALS
Sulfur (S), dissolved in water	194.0000	mg/L	6/23/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/23/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/23/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/23/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/23/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/23/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/23/2020	ALS
Uranium (U), dissolved in water	0.000052	mg/L	6/23/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/23/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	6/23/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/23/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	6/23/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/23/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	89.700	%	6/23/2020	ALS
Surrogate: d14-Terphenyl in water	100.600	%	6/23/2020	ALS
Diazinon in water	<0.1000	ug/L	6/23/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/23/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/23/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	102.900	%	6/23/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/23/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/23/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/23/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	6/23/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	6/23/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/23/2020	ALS

Phenoxy Acid Herbicides

2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/23/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/23/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	71.1	%	6/23/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/23/2020	ALS
Bromoxynil in water	<0.0001	ug/L	6/23/2020	ALS
Clopyralid in water	<0.0001	ug/L	6/23/2020	ALS
Dicamba in water	<0.0001	ug/L	6/23/2020	ALS
Dinoseb in water	<0.0001	ug/L	6/23/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/23/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/23/2020	ALS
Mecoprop in water	<0.0001	ug/L	6/23/2020	ALS
Picloram in water	<0.0001	ug/L	6/23/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/23/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/23/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/23/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/23/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/23/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/23/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/23/2020	ALS
2-Methyl Naphthalene	<0.000020	mg/L	6/23/2020	ALS
Acenaphthene	<0.000020	mg/L	6/23/2020	ALS
Acenaphthylene	<0.000020	mg/L	6/23/2020	ALS
Acridine	<0.000020	mg/L	6/23/2020	ALS
Anthracene	<0.000010	mg/L	6/23/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	6/23/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	6/23/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	6/23/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	6/23/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	6/23/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	6/23/2020	ALS
Chrysene	<0.000020	mg/L	6/23/2020	ALS
Surrogate: d10-Acenaphthene	92.9	%	6/23/2020	ALS
Surrogate: d10-Phenanthrene	96.5	%	6/23/2020	ALS
Surrogate: d12-Chrysene	79.3	%	6/23/2020	ALS
Surrogate: d8-Naphthalene	135.7	%	6/23/2020	ALS

CCME PAHs in mg/L

Surrogate: d9-Acridine (SS)	83.0	%	6/23/2020	ALS
Dibenzo(a,h)anthracene	<0.000050	mg/L	6/23/2020	ALS
Fluoranthene	<0.000020	mg/L	6/23/2020	ALS
Fluorene	<0.000020	mg/L	6/23/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/23/2020	ALS
Naphthalene	<0.000050	mg/L	6/23/2020	ALS
Phenanthrene	<0.000050	mg/L	6/23/2020	ALS
Pyrene	<0.000010	mg/L	6/23/2020	ALS
Quinoline	<0.000020	mg/L	6/23/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	100.7	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	0.00108	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS
Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	2.02 ± 6.8%	mg/L	9/30/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	9/30/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.027 ± 7.5%	mg/L	9/30/2020	COW_ASB

Sample No. : 303445
Sample Description : GWQ25-W10
Sample Date : May 27, 2020
Sample Received : May 27, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	163 ± 2.8%	mg/L		5/28/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		5/28/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		5/28/2020	COW_ASB
Alkalinity, total to pH 4.5	163 ± 2.8%	mg/L		5/28/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		5/28/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.30 ± 16.9%	mg/L		5/31/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.003 ± 7.8%	mg/L		5/31/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		5/31/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.1	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.1 ± 15%	mg/L		6/2/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2530 ± 6%	mg/L		5/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	808 ± 10%	mg/L		5/30/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	97.0 ± 6.1%	mg/L		6/1/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	9170 ± 7.2%	uS		5/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.50 ± 0.07 units	units		5/27/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5700 ± 6.2%	mg/L		5/29/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5370 ± 6.5%	mg/L		5/30/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	325.0	mg/L		5/31/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.4 ± 13%	mg/L		6/2/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.6 ± 13%	mg/L		6/2/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000172 ± 9.2%	mg/L		6/3/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.004693 ± 8.1%	mg/L	6/3/2020	COW_ASB
Barium (Ba), total in water	0.013916 ± 11.8%	mg/L	6/3/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/3/2020	COW_ASB
Boron (B), total in water	1.0125 ± 24.2%	mg/L	6/3/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/3/2020	COW_ASB
Calcium (Ca), total in water	311.97 ± 20.9%	mg/L	6/3/2020	COW_ASB
Chromium (Cr), total in water	0.00046 ± 12.8%	mg/L	6/3/2020	COW_ASB
Copper (Cu), total in water	0.000050 ± 12.1%	mg/L	6/3/2020	COW_ASB
Iron (Fe), total in water	1.0121 ± 9.7%	mg/L	6/3/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	6/3/2020	COW_ASB
Magnesium (Mg), total in water	152.93 ± 10.5%	mg/L	6/3/2020	COW_ASB
Manganese (Mn), total in water	0.01443 ± 11.2%	mg/L	6/3/2020	COW_ASB
Nickel (Ni), total in water	0.001658 ± 12.2%	mg/L	6/3/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	6/3/2020	COW_ASB
Potassium (K), total in water	39.274 ± 18.3%	mg/L	6/3/2020	COW_ASB
Selenium (Se), total in water	0.00304 ± 8.0%	mg/L	6/3/2020	COW_ASB
Sodium (Na), total in water	1513.2 ± 9.2%	mg/L	6/3/2020	COW_ASB
Uranium (U), total in water	0.000403 ± 10.0%	mg/L	6/3/2020	COW_ASB
Zinc (Zn), total in water	0.00910 ± 10.7%	mg/L	6/3/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	779	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	1410	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	3.18 ± 4.4%	NTU	5/27/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/18/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/18/2020	ALS
Arsenic (As), dissolved in water	0.00522	mg/L	6/18/2020	ALS
Barium (Ba), dissolved in water	0.0123	mg/L	6/18/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Boron (B), dissolved in water	1.1700	mg/L	6/18/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/18/2020	ALS
Calcium (Ca), dissolved in water	310.0000	mg/L	6/18/2020	ALS
Cesium (Cs), dissolved in water	0.000112	mg/L	6/18/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Cobalt (Co), dissolved in water	0.00026	mg/L	6/18/2020	ALS
Copper (Cu), dissolved in water	0.00037	mg/L	6/18/2020	ALS
Hardness dissolved in water, calculated	1437.1	mg/L	6/18/2020	ALS
Iron (Fe), dissolved in water	0.8440	mg/L	6/18/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/18/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3780	mg/L	6/18/2020	ALS
Magnesium (Mg), dissolved in water	161.0000	mg/L	6/18/2020	ALS
Manganese (Mn), dissolved in water	0.0155	mg/L	6/18/2020	ALS
Molybdenum (Mo), dissolved in water	0.003290	mg/L	6/18/2020	ALS
Nickel (Ni), dissolved in water	0.00133	mg/L	6/18/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/18/2020	ALS
Potassium (K), dissolved in water	41.9000	mg/L	6/18/2020	ALS
Rubidium (Rb), dissolved in water	0.0189	mg/L	6/18/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Silicon (Si), dissolved in water	4.7100	mg/L	6/18/2020	ALS
Silver (Ag), dissolved in water	0.000070	mg/L	6/18/2020	ALS
Sodium (Na), dissolved in water	1500.0000	mg/L	6/18/2020	ALS
Strontium (Sr), dissolved in water	4.3800	mg/L	6/18/2020	ALS
Sulfur (S), dissolved in water	317.0000	mg/L	6/18/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/18/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/18/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Uranium (U), dissolved in water	0.000769	mg/L	6/18/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/18/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	6/18/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/18/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.000050	mg/L	6/18/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/18/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	90.400	%	6/18/2020	ALS
Surrogate: d14-Terphenyl in water	88.200	%	6/18/2020	ALS
Diazinon in water	<0.1000	ug/L	6/18/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/18/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/18/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	98.500	%	6/18/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/18/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/18/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/18/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/18/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	6/18/2020	ALS
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2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/18/2020	ALS
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2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/18/2020	ALS
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2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/18/2020	ALS
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Surrogate: 2,4-Dichlorophenylacetic Acid in water	59.8	%	6/18/2020	ALS
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2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/18/2020	ALS
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Bromoxynil in water	<0.0001	ug/L	6/18/2020	ALS
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Clopyralid in water	<0.0001	ug/L	6/18/2020	ALS
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Dicamba in water	<0.0001	ug/L	6/18/2020	ALS
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Dinoseb in water	<0.0001	ug/L	6/18/2020	ALS
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2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/18/2020	ALS
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2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/18/2020	ALS
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Mecoprop in water	<0.0001	ug/L	6/18/2020	ALS
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Picloram in water	<0.0001	ug/L	6/18/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/18/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/18/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/18/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/18/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/18/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthylene	<0.000020	mg/L	6/18/2020	ALS
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Acridine	<0.000020	mg/L	6/18/2020	ALS
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Anthracene	<0.000010	mg/L	6/18/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	6/18/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	6/18/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	6/18/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Chrysene	<0.000020	mg/L	6/18/2020	ALS
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Surrogate: d10-Acenaphthene	93.7	%	6/18/2020	ALS
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CCME PAHs in mg/L

Surrogate: d10-Phenanthrene	99.6	%	6/18/2020	ALS
Surrogate: d12-Chrysene	85.1	%	6/18/2020	ALS
Surrogate: d8-Naphthalene	89.2	%	6/18/2020	ALS
Surrogate: d9-Acridine (SS)	80.3	%	6/18/2020	ALS
Dibenzo(a,h)anthracene	<0.000050	mg/L	6/18/2020	ALS
Fluoranthene	<0.000020	mg/L	6/18/2020	ALS
Fluorene	<0.000020	mg/L	6/18/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/18/2020	ALS
Naphthalene	<0.000050	mg/L	6/18/2020	ALS
Phenanthrene	<0.000050	mg/L	6/18/2020	ALS
Pyrene	<0.000010	mg/L	6/18/2020	ALS
Quinoline	<0.000020	mg/L	6/18/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/18/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.1	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methytertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303446
Sample Description : GWQ25-W12
Sample Date : May 28, 2020
Sample Received : May 29, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	134 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, total to pH 4.5	134 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		5/29/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.16 ± 16.9%	mg/L		5/31/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.005 ± 7.8%	mg/L		5/31/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		5/31/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.1	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.1 ± 15%	mg/L		6/2/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2650 ± 6%	mg/L		5/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	832 ± 10%	mg/L		5/30/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	78.0 ± 6.1%	mg/L		6/1/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8860 ± 7.2%	uS		5/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.57 ± 0.07 units	units		5/29/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5810 ± 6.2%	mg/L		5/31/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5350 ± 6.5%	mg/L		5/30/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	458.0	mg/L		5/31/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	0.8 ± 13%	mg/L		6/2/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.0 ± 13%	mg/L		6/2/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/3/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.004262 ± 8.1%	mg/L	6/3/2020	COW_ASB
Barium (Ba), total in water	0.013585 ± 11.8%	mg/L	6/3/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/3/2020	COW_ASB
Boron (B), total in water	1.0719 ± 24.2%	mg/L	6/3/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/3/2020	COW_ASB
Calcium (Ca), total in water	320.65 ± 20.9%	mg/L	6/3/2020	COW_ASB
Chromium (Cr), total in water	0.00101 ± 12.8%	mg/L	6/3/2020	COW_ASB
Copper (Cu), total in water	0.000129 ± 12.1%	mg/L	6/3/2020	COW_ASB
Iron (Fe), total in water	0.71723 ± 9.7%	mg/L	6/3/2020	COW_ASB
Lead (Pb), total in water	0.000124 ± 8.3%	mg/L	6/3/2020	COW_ASB
Magnesium (Mg), total in water	165.77 ± 10.5%	mg/L	6/3/2020	COW_ASB
Manganese (Mn), total in water	0.02320 ± 11.2%	mg/L	6/3/2020	COW_ASB
Nickel (Ni), total in water	0.001672 ± 12.2%	mg/L	6/3/2020	COW_ASB
Phosphorus (P), total in water	0.0103	mg/L	6/3/2020	COW_ASB
Potassium (K), total in water	36.851 ± 18.3%	mg/L	6/3/2020	COW_ASB
Selenium (Se), total in water	0.00235 ± 8.0%	mg/L	6/3/2020	COW_ASB
Sodium (Na), total in water	1616.1 ± 9.2%	mg/L	6/3/2020	COW_ASB
Uranium (U), total in water	0.000917 ± 10.0%	mg/L	6/3/2020	COW_ASB
Zinc (Zn), total in water	0.00843 ± 10.7%	mg/L	6/3/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	801	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	1480	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	6.21 ± 4.4%	NTU	5/29/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/17/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/17/2020	ALS
Arsenic (As), dissolved in water	0.00486	mg/L	6/17/2020	ALS
Barium (Ba), dissolved in water	0.0129	mg/L	6/17/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/17/2020	ALS
Boron (B), dissolved in water	1.1400	mg/L	6/17/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/17/2020	ALS
Calcium (Ca), dissolved in water	305.0000	mg/L	6/17/2020	ALS
Cesium (Cs), dissolved in water	0.000050	mg/L	6/17/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Cobalt (Co), dissolved in water	0.00069	mg/L	6/17/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	6/17/2020	ALS
Hardness dissolved in water, calculated	1544.0	mg/L	6/17/2020	ALS
Iron (Fe), dissolved in water	0.6310	mg/L	6/17/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/17/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3170	mg/L	6/17/2020	ALS
Magnesium (Mg), dissolved in water	190.0000	mg/L	6/17/2020	ALS
Manganese (Mn), dissolved in water	0.0257	mg/L	6/17/2020	ALS
Molybdenum (Mo), dissolved in water	0.002940	mg/L	6/17/2020	ALS
Nickel (Ni), dissolved in water	0.00143	mg/L	6/17/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/17/2020	ALS
Potassium (K), dissolved in water	40.8000	mg/L	6/17/2020	ALS
Rubidium (Rb), dissolved in water	0.0171	mg/L	6/17/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/17/2020	ALS
Silicon (Si), dissolved in water	5.1400	mg/L	6/17/2020	ALS
Silver (Ag), dissolved in water	0.000065	mg/L	6/17/2020	ALS
Sodium (Na), dissolved in water	1430.0000	mg/L	6/17/2020	ALS
Strontium (Sr), dissolved in water	4.3300	mg/L	6/17/2020	ALS
Sulfur (S), dissolved in water	318.0000	mg/L	6/17/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/17/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/17/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/17/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Uranium (U), dissolved in water	0.001120	mg/L	6/17/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/17/2020	ALS
Zinc (Zn), dissolved in water	0.0011	mg/L	6/17/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/17/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.000050	mg/L	6/17/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/17/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	83.100	%	6/17/2020	ALS
Surrogate: d14-Terphenyl in water	88.500	%	6/17/2020	ALS
Diazinon in water	<0.1000	ug/L	6/17/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/17/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/17/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	99.200	%	6/17/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/17/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/17/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/17/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/17/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	0.0010	ug/L	6/17/2020	ALS
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2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	6/17/2020	ALS
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2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	6/17/2020	ALS
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2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0010	ug/L	6/17/2020	ALS
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Surrogate: 2,4-Dichlorophenylacetic Acid in water	107.0	%	6/17/2020	ALS
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2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0010	ug/L	6/17/2020	ALS
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Bromoxynil in water	<0.0010	ug/L	6/17/2020	ALS
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Clopyralid in water	<0.0010	ug/L	6/17/2020	ALS
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Dicamba in water	<0.0010	ug/L	6/17/2020	ALS
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Dinoseb in water	<0.0010	ug/L	6/17/2020	ALS
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2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	6/17/2020	ALS
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2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0010	ug/L	6/17/2020	ALS
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Mecoprop in water	<0.0010	ug/L	6/17/2020	ALS
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Picloram in water	<0.0010	ug/L	6/17/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/17/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/17/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthylene	<0.000020	mg/L	6/18/2020	ALS
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Acridine	<0.000020	mg/L	6/18/2020	ALS
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Anthracene	<0.000010	mg/L	6/18/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	6/18/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	6/18/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	6/18/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Chrysene	<0.000020	mg/L	6/18/2020	ALS
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Surrogate: d10-Acenaphthene	94.4	%	6/18/2020	ALS
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CCME PAHs in mg/L

Surrogate: d10-Phenanthrene	99.7	%	6/18/2020	ALS
Surrogate: d12-Chrysene	83.7	%	6/18/2020	ALS
Surrogate: d8-Naphthalene	91.7	%	6/18/2020	ALS
Surrogate: d9-Acridine (SS)	78.9	%	6/18/2020	ALS
Dibenzo(a,h)anthracene	<0.000050	mg/L	6/18/2020	ALS
Fluoranthene	<0.000020	mg/L	6/18/2020	ALS
Fluorene	<0.000020	mg/L	6/18/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/18/2020	ALS
Naphthalene	<0.000050	mg/L	6/18/2020	ALS
Phenanthrene	<0.000050	mg/L	6/18/2020	ALS
Pyrene	<0.000010	mg/L	6/18/2020	ALS
Quinoline	<0.000020	mg/L	6/18/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/18/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.0	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303447
Sample Description : GWQ25-100
Sample Date : May 28, 2020
Sample Received : May 29, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	169 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, total to pH 4.5	169 ± 2.8%	mg/L		5/29/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		5/29/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.19 ± 16.9%	mg/L		5/31/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.004 ± 7.8%	mg/L		5/31/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		5/31/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.4	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.4 ± 15%	mg/L		6/2/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2400 ± 6%	mg/L		5/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	872 ± 10%	mg/L		5/30/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	95.0 ± 6.1%	mg/L		6/1/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8960 ± 7.2%	uS		5/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.48 ± 0.07 units	units		5/29/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5760 ± 6.2%	mg/L		5/31/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5350 ± 6.5%	mg/L		5/30/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	412.0	mg/L		5/31/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	<0.6 ± 13%	mg/L		6/2/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.6 ± 13%	mg/L		6/2/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/3/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.004132 ± 8.1%	mg/L	6/3/2020	COW_ASB
Barium (Ba), total in water	0.013198 ± 11.8%	mg/L	6/3/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/3/2020	COW_ASB
Boron (B), total in water	1.0397 ± 24.2%	mg/L	6/3/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/3/2020	COW_ASB
Calcium (Ca), total in water	305.80 ± 20.9%	mg/L	6/3/2020	COW_ASB
Chromium (Cr), total in water	0.00050 ± 12.8%	mg/L	6/3/2020	COW_ASB
Copper (Cu), total in water	0.000283 ± 12.1%	mg/L	6/3/2020	COW_ASB
Iron (Fe), total in water	0.69351 ± 9.7%	mg/L	6/3/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	6/3/2020	COW_ASB
Magnesium (Mg), total in water	158.63 ± 10.5%	mg/L	6/3/2020	COW_ASB
Manganese (Mn), total in water	0.02244 ± 11.2%	mg/L	6/3/2020	COW_ASB
Nickel (Ni), total in water	0.001616 ± 12.2%	mg/L	6/3/2020	COW_ASB
Phosphorus (P), total in water	0.0013	mg/L	6/3/2020	COW_ASB
Potassium (K), total in water	36.771 ± 18.3%	mg/L	6/3/2020	COW_ASB
Selenium (Se), total in water	0.00270 ± 8.0%	mg/L	6/3/2020	COW_ASB
Sodium (Na), total in water	1434.5 ± 9.2%	mg/L	6/3/2020	COW_ASB
Uranium (U), total in water	0.000892 ± 10.0%	mg/L	6/3/2020	COW_ASB
Zinc (Zn), total in water	0.01017 ± 10.7%	mg/L	6/3/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	764	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	1420	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	7.32 ± 4.4%	NTU	5/29/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/17/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/17/2020	ALS
Arsenic (As), dissolved in water	0.00024	mg/L	6/17/2020	ALS
Barium (Ba), dissolved in water	0.0109	mg/L	6/17/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/17/2020	ALS
Boron (B), dissolved in water	0.7250	mg/L	6/17/2020	ALS
Cadmium (Cd), dissolved in water	0.000007	mg/L	6/17/2020	ALS
Calcium (Ca), dissolved in water	190.0000	mg/L	6/17/2020	ALS
Cesium (Cs), dissolved in water	0.000010	mg/L	6/17/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Cobalt (Co), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Copper (Cu), dissolved in water	0.00170	mg/L	6/17/2020	ALS
Hardness dissolved in water, calculated	972.7	mg/L	6/17/2020	ALS
Iron (Fe), dissolved in water	2.5200	mg/L	6/17/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/17/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.2200	mg/L	6/17/2020	ALS
Magnesium (Mg), dissolved in water	121.0000	mg/L	6/17/2020	ALS
Manganese (Mn), dissolved in water	0.0360	mg/L	6/17/2020	ALS
Molybdenum (Mo), dissolved in water	0.004840	mg/L	6/17/2020	ALS
Nickel (Ni), dissolved in water	<0.00050	mg/L	6/17/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/17/2020	ALS
Potassium (K), dissolved in water	34.2000	mg/L	6/17/2020	ALS
Rubidium (Rb), dissolved in water	0.0143	mg/L	6/17/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/17/2020	ALS
Silicon (Si), dissolved in water	2.1400	mg/L	6/17/2020	ALS
Silver (Ag), dissolved in water	0.000042	mg/L	6/17/2020	ALS
Sodium (Na), dissolved in water	1450.0000	mg/L	6/17/2020	ALS
Strontium (Sr), dissolved in water	2.7100	mg/L	6/17/2020	ALS
Sulfur (S), dissolved in water	216.0000	mg/L	6/17/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/17/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/17/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/17/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/17/2020	ALS
Tungsten (W), dissolved in water	0.00201	mg/L	6/17/2020	ALS
Uranium (U), dissolved in water	<0.000010	mg/L	6/17/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/17/2020	ALS
Zinc (Zn), dissolved in water	0.0011	mg/L	6/17/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/17/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	6/17/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/17/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	77.600	%	6/17/2020	ALS
Surrogate: d14-Terphenyl in water	80.300	%	6/17/2020	ALS
Diazinon in water	<0.1000	ug/L	6/17/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/17/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/17/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	101.500	%	6/17/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/17/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/17/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/17/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/17/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	0.0013	ug/L	6/17/2020	ALS
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2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	6/17/2020	ALS
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2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	6/17/2020	ALS
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2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0010	ug/L	6/17/2020	ALS
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Surrogate: 2,4-Dichlorophenylacetic Acid in water	120.0	%	6/17/2020	ALS
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2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0010	ug/L	6/17/2020	ALS
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Bromoxynil in water	<0.0010	ug/L	6/17/2020	ALS
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Clopyralid in water	<0.0010	ug/L	6/17/2020	ALS
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Dicamba in water	<0.0010	ug/L	6/17/2020	ALS
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Dinoseb in water	<0.0010	ug/L	6/17/2020	ALS
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2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	6/17/2020	ALS
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2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0010	ug/L	6/17/2020	ALS
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Mecoprop in water	<0.0010	ug/L	6/17/2020	ALS
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Picloram in water	<0.0010	ug/L	6/17/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/17/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/17/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthene	<0.000020	mg/L	6/18/2020	ALS
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Acenaphthylene	<0.000020	mg/L	6/18/2020	ALS
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Acridine	<0.000020	mg/L	6/18/2020	ALS
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Anthracene	<0.000010	mg/L	6/18/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	6/18/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	6/18/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	6/18/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
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Chrysene	<0.000020	mg/L	6/18/2020	ALS
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Surrogate: d10-Acenaphthene	94.2	%	6/18/2020	ALS
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CCME PAHs in mg/L

Surrogate: d10-Phenanthrene	99.2	%	6/18/2020	ALS
Surrogate: d12-Chrysene	90.3	%	6/18/2020	ALS
Surrogate: d8-Naphthalene	96.1	%	6/18/2020	ALS
Surrogate: d9-Acridine (SS)	78.2	%	6/18/2020	ALS
Dibenzo(a,h)anthracene	<0.000050	mg/L	6/18/2020	ALS
Fluoranthene	<0.000020	mg/L	6/18/2020	ALS
Fluorene	<0.000020	mg/L	6/18/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/18/2020	ALS
Naphthalene	<0.000050	mg/L	6/18/2020	ALS
Phenanthrene	<0.000050	mg/L	6/18/2020	ALS
Pyrene	<0.000010	mg/L	6/18/2020	ALS
Quinoline	<0.000020	mg/L	6/18/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/18/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.7	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303448
Sample Description : GWQ25-13A
Sample Date : June 2, 2020
Sample Received : June 2, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	559 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, total to pH 4.5	559 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.491 ± 16.9%	mg/L		9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.115 ± 7.8%	mg/L		9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.068 ± 7.5%	mg/L		9/17/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		6/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1230 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1300 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	61.0 ± 6.1%	mg/L		6/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6710 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.13 ± 0.07 units	units		6/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	21200 ± 6.2%	mg/L		6/3/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	7.4 ± 13%	mg/L		6/3/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	5.4 ± 13%	mg/L		6/8/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/9/2020	COW_ASB
Arsenic (As), total in water	0.001332 ± 8.1%	mg/L		6/9/2020	COW_ASB
Barium (Ba), total in water	0.017404 ± 11.8%	mg/L		6/9/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		6/9/2020	COW_ASB
Boron (B), total in water	0.29013 ± 24.2%	mg/L		6/9/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	0.000055 ± 10.4%	mg/L	6/9/2020	COW_ASB
Calcium (Ca), total in water	450.66 ± 20.9%	mg/L	6/9/2020	COW_ASB
Chromium (Cr), total in water	0.00496 ± 12.8%	mg/L	6/9/2020	COW_ASB
Copper (Cu), total in water	0.004242 ± 12.1%	mg/L	6/9/2020	COW_ASB
Iron (Fe), total in water	3.0347 ± 9.7%	mg/L	6/9/2020	COW_ASB
Lead (Pb), total in water	0.002243 ± 8.3%	mg/L	6/9/2020	COW_ASB
Magnesium (Mg), total in water	307.72 ± 10.5%	mg/L	6/9/2020	COW_ASB
Manganese (Mn), total in water	0.14727 ± 11.2%	mg/L	6/9/2020	COW_ASB
Nickel (Ni), total in water	0.009970 ± 12.2%	mg/L	6/9/2020	COW_ASB
Phosphorus (P), total in water	0.0585	mg/L	6/9/2020	COW_ASB
Potassium (K), total in water	15.388 ± 18.3%	mg/L	6/9/2020	COW_ASB
Selenium (Se), total in water	0.00089 ± 8.0%	mg/L	6/9/2020	COW_ASB
Sodium (Na), total in water	859.83 ± 9.2%	mg/L	6/9/2020	COW_ASB
Uranium (U), total in water	0.082202 ± 10.0%	mg/L	6/9/2020	COW_ASB
Zinc (Zn), total in water	0.02499 ± 10.7%	mg/L	6/9/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1130	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	2390	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	151.00 ± 4.4%	NTU	6/2/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0013	mg/L	6/24/2020	ALS
Antimony (Sb), dissolved in water	0.000170	mg/L	6/24/2020	ALS
Arsenic (As), dissolved in water	0.00129	mg/L	6/24/2020	ALS
Barium (Ba), dissolved in water	0.0154	mg/L	6/24/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/24/2020	ALS
Boron (B), dissolved in water	0.4100	mg/L	6/24/2020	ALS
Cadmium (Cd), dissolved in water	0.000027	mg/L	6/24/2020	ALS
Calcium (Ca), dissolved in water	388.0000	mg/L	6/24/2020	ALS
Cesium (Cs), dissolved in water	0.000035	mg/L	6/24/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Cobalt (Co), dissolved in water	0.00149	mg/L	6/24/2020	ALS
Copper (Cu), dissolved in water	0.00312	mg/L	6/24/2020	ALS
Hardness dissolved in water, calculated	2006.6	mg/L	6/24/2020	ALS
Iron (Fe), dissolved in water	0.0450	mg/L	6/24/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/24/2020	ALS
Lithium (Li), dissolved in water	0.5780	mg/L	6/24/2020	ALS
Magnesium (Mg), dissolved in water	252.0000	mg/L	6/24/2020	ALS
Manganese (Mn), dissolved in water	0.1630	mg/L	6/24/2020	ALS
Molybdenum (Mo), dissolved in water	0.003760	mg/L	6/24/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00442	mg/L	6/24/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/24/2020	ALS
Potassium (K), dissolved in water	14.6000	mg/L	6/24/2020	ALS
Rubidium (Rb), dissolved in water	0.0075	mg/L	6/24/2020	ALS
Selenium (Se), dissolved in water	0.000453	mg/L	6/24/2020	ALS
Silicon (Si), dissolved in water	9.8300	mg/L	6/24/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/24/2020	ALS
Sodium (Na), dissolved in water	834.0000	mg/L	6/24/2020	ALS
Strontium (Sr), dissolved in water	3.2200	mg/L	6/24/2020	ALS
Sulfur (S), dissolved in water	495.0000	mg/L	6/24/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/24/2020	ALS
Thallium (Tl), dissolved in water	0.000049	mg/L	6/24/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/24/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Uranium (U), dissolved in water	0.059700	mg/L	6/24/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/24/2020	ALS
Zinc (Zn), dissolved in water	0.0057	mg/L	6/24/2020	ALS
Zirconium (Zr), dissolved in water	0.00033	mg/L	6/24/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0004400	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	79.800	%	6/24/2020	ALS
Surrogate: d14-Terphenyl in water	49.300	%	6/24/2020	ALS
Diazinon in water	<0.1000	ug/L	6/24/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/24/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/24/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	107.300	%	6/24/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/24/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/24/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/24/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/24/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	6/24/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	6/24/2020	ALS

Phenoxy Acid Herbicides

2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	6/24/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0010	ug/L	6/24/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	68.0	%	6/24/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0010	ug/L	6/24/2020	ALS
Bromoxynil in water	<0.0010	ug/L	6/24/2020	ALS
Clopyralid in water	<0.0010	ug/L	6/24/2020	ALS
Dicamba in water	<0.0010	ug/L	6/24/2020	ALS
Dinoseb in water	<0.0010	ug/L	6/24/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	6/24/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0010	ug/L	6/24/2020	ALS
Mecoprop in water	<0.0010	ug/L	6/24/2020	ALS
Picloram in water	<0.0010	ug/L	6/24/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/24/2020	ALS
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Dissolved Solids by Gravimetric Analysis

Total Dissolved Solid, calculated	3290	mg/L	6/25/2020	COW_ASB
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/24/2020	ALS
2-Methyl Naphthalene	<0.000020	mg/L	6/24/2020	ALS
Acenaphthene	<0.000020	mg/L	6/24/2020	ALS
Acenaphthylene	<0.000020	mg/L	6/24/2020	ALS
Acridine	<0.000020	mg/L	6/24/2020	ALS
Anthracene	<0.000010	mg/L	6/24/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	6/24/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	6/24/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	6/24/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	6/24/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	6/24/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	6/24/2020	ALS
Chrysene	<0.000020	mg/L	6/24/2020	ALS
Surrogate: d10-Acenaphthene	90.5	%	6/24/2020	ALS
Surrogate: d10-Phenanthrene	98.8	%	6/24/2020	ALS
Surrogate: d12-Chrysene	82.4	%	6/24/2020	ALS
Surrogate: d8-Naphthalene	92.9	%	6/24/2020	ALS
Surrogate: d9-Acridine (SS)	49.6	%	6/24/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	6/24/2020	ALS
Fluoranthene	<0.000020	mg/L	6/24/2020	ALS

CCME PAHs in mg/L

Fluorene	<0.000020	mg/L		6/24/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L		6/24/2020	ALS
Naphthalene	<0.000050	mg/L		6/24/2020	ALS
Phenanthrene	<0.000050	mg/L		6/24/2020	ALS
Pyrene	<0.000010	mg/L		6/24/2020	ALS
Quinoline	<0.000020	mg/L		6/24/2020	ALS

Total Suspended Solids by Gravimetric Analysis

Total Suspended Solids	17950 ± 8.4%	mg/L	ANXHT	6/25/2020	COW_ASB
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L		7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L		7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L		7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L		7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L		7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L		7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L		7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L		7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	98.8	%		7/21/2020	ALS
Acetone	<0.050	mg/L		7/21/2020	ALS
Benzene	<0.00050	mg/L		7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L		7/21/2020	ALS
Bromoform	<0.0010	mg/L		7/21/2020	ALS
Bromomethane	<0.001	mg/L		7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L		7/21/2020	ALS
Chloroethane	<0.001	mg/L		7/21/2020	ALS
Chloroform	<0.00050	mg/L		7/21/2020	ALS
Chloromethane	<0.005	mg/L		7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L		7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L		7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L		7/21/2020	ALS
Dichloromethane	<0.00500	mg/L		7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L		7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L		7/21/2020	ALS
o-Xylene	<0.0005	mg/L		7/21/2020	ALS
Styrene	<0.0010	mg/L		7/21/2020	ALS
Toluene	<0.00050	mg/L		7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L		7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L		7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L		7/21/2020	ALS

Sample No. : 303449
Sample Description : GWQ25-14A
Sample Date : June 3, 2020
Sample Received : June 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	1610 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, total to pH 4.5	1610 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.13 ± 16.9%	mg/L		9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.019 ± 7.8%	mg/L		9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.030 ± 7.5%	mg/L		9/17/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.9	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	2.0 ± 15%	mg/L		6/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2240 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1940 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<100 ± 6.1%	mg/L		6/29/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8710 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.43 ± 0.07 units	units		6/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	9510 ± 6.2%	mg/L		6/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5290 ± 6.5%	mg/L		6/10/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	4218	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.3 ± 13%	mg/L		6/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	10.4 ± 13%	mg/L		6/10/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000191 ± 9.2%	mg/L		6/9/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.001478 ± 8.1%	mg/L	6/9/2020	COW_ASB
Barium (Ba), total in water	0.025256 ± 11.8%	mg/L	6/9/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/9/2020	COW_ASB
Boron (B), total in water	0.08390 ± 24.2%	mg/L	6/9/2020	COW_ASB
Cadmium (Cd), total in water	0.000389 ± 10.4%	mg/L	6/9/2020	COW_ASB
Calcium (Ca), total in water	1068.0 ± 20.9%	mg/L	6/9/2020	COW_ASB
Chromium (Cr), total in water	0.05662 ± 12.8%	mg/L	6/9/2020	COW_ASB
Copper (Cu), total in water	0.004667 ± 12.1%	mg/L	6/9/2020	COW_ASB
Iron (Fe), total in water	57.286 ± 9.7%	mg/L	6/9/2020	COW_ASB
Lead (Pb), total in water	0.033126 ± 8.3%	mg/L	6/9/2020	COW_ASB
Magnesium (Mg), total in water	40.729 ± 10.5%	mg/L	6/9/2020	COW_ASB
Manganese (Mn), total in water	0.16092 ± 11.2%	mg/L	6/9/2020	COW_ASB
Nickel (Ni), total in water	0.055422 ± 12.2%	mg/L	6/9/2020	COW_ASB
Phosphorus (P), total in water	1.8319	mg/L	6/9/2020	COW_ASB
Potassium (K), total in water	34.743 ± 18.3%	mg/L	6/9/2020	COW_ASB
Selenium (Se), total in water	0.00075 ± 8.0%	mg/L	6/9/2020	COW_ASB
Sodium (Na), total in water	1382.9 ± 9.2%	mg/L	6/9/2020	COW_ASB
Uranium (U), total in water	0.005752 ± 10.0%	mg/L	6/9/2020	COW_ASB
Zinc (Zn), total in water	0.10372 ± 10.7%	mg/L	6/9/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	2670	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	2830	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2532.00 ± 4.4%	NTU	6/3/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0045	mg/L	6/18/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/18/2020	ALS
Arsenic (As), dissolved in water	0.00192	mg/L	6/18/2020	ALS
Barium (Ba), dissolved in water	0.0143	mg/L	6/18/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Boron (B), dissolved in water	0.8610	mg/L	6/18/2020	ALS
Cadmium (Cd), dissolved in water	0.000025	mg/L	6/18/2020	ALS
Calcium (Ca), dissolved in water	390.0000	mg/L	6/18/2020	ALS
Cesium (Cs), dissolved in water	0.000031	mg/L	6/18/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Cobalt (Co), dissolved in water	0.00149	mg/L	6/18/2020	ALS
Copper (Cu), dissolved in water	0.00091	mg/L	6/18/2020	ALS
Hardness dissolved in water, calculated	1665.7	mg/L	6/18/2020	ALS
Iron (Fe), dissolved in water	0.4610	mg/L	6/18/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/18/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3720	mg/L	6/18/2020	ALS
Magnesium (Mg), dissolved in water	168.0000	mg/L	6/18/2020	ALS
Manganese (Mn), dissolved in water	0.3150	mg/L	6/18/2020	ALS
Molybdenum (Mo), dissolved in water	0.002330	mg/L	6/18/2020	ALS
Nickel (Ni), dissolved in water	0.00196	mg/L	6/18/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/18/2020	ALS
Potassium (K), dissolved in water	29.5000	mg/L	6/18/2020	ALS
Rubidium (Rb), dissolved in water	0.0119	mg/L	6/18/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Silicon (Si), dissolved in water	6.7200	mg/L	6/18/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Sodium (Na), dissolved in water	1040.0000	mg/L	6/18/2020	ALS
Strontium (Sr), dissolved in water	3.7300	mg/L	6/18/2020	ALS
Sulfur (S), dissolved in water	345.0000	mg/L	6/18/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/18/2020	ALS
Thallium (Tl), dissolved in water	0.000039	mg/L	6/18/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/18/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Uranium (U), dissolved in water	0.003320	mg/L	6/18/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/18/2020	ALS
Zinc (Zn), dissolved in water	0.0021	mg/L	6/18/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/18/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0001500	mg/L	6/18/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/18/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/18/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	86.200	%	6/18/2020	ALS
Surrogate: d14-Terphenyl in water	89.100	%	6/18/2020	ALS
Diazinon in water	<0.1000	ug/L	6/18/2020	ALS

CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
2-Methyl Naphthalene	0.000026	mg/L	6/18/2020	ALS
Acenaphthene	<0.000020	mg/L	6/18/2020	ALS
Acenaphthylene	<0.000020	mg/L	6/18/2020	ALS
Acridine	<0.000020	mg/L	6/18/2020	ALS
Anthracene	<0.000010	mg/L	6/18/2020	ALS

CCME PAHs in mg/L

B(a)P Total Potency Equivalent	<0.000030	mg/L	6/18/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	6/18/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	6/18/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	6/18/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
Chrysene	<0.000020	mg/L	6/18/2020	ALS
Surrogate: d10-Acenaphthene	89.7	%	6/18/2020	ALS
Surrogate: d10-Phenanthrene	100.2	%	6/18/2020	ALS
Surrogate: d12-Chrysene	86.0	%	6/18/2020	ALS
Surrogate: d8-Naphthalene	86.9	%	6/18/2020	ALS
Surrogate: d9-Acridine (SS)	67.6	%	6/18/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	6/18/2020	ALS
Fluoranthene	<0.000020	mg/L	6/18/2020	ALS
Fluorene	<0.000020	mg/L	6/18/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/18/2020	ALS
Naphthalene	<0.000050	mg/L	6/18/2020	ALS
Phenanthrene	<0.000050	mg/L	6/18/2020	ALS
Pyrene	<0.000010	mg/L	6/18/2020	ALS
Quinoline	<0.000020	mg/L	6/18/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/18/2020	ALS
Total Hydrocarbons (C6-C50)	1.42	mg/L	6/18/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	130.400	%	6/18/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/18/2020	ALS
Fraction 3 (C16-C34)	0.890	mg/L	6/18/2020	ALS
Fraction 4 (C34-C50)	0.530	mg/L	6/18/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	6/18/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0007	ug/L	6/18/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/18/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/18/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/18/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	92.9	%	6/18/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/18/2020	ALS
Bromoxynil in water	<0.0001	ug/L	6/18/2020	ALS
Clopyralid in water	<0.0001	ug/L	6/18/2020	ALS
Dicamba in water	<0.0001	ug/L	6/18/2020	ALS
Dinoseb in water	<0.0001	ug/L	6/18/2020	ALS

Phenoxy Acid Herbicides

2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/18/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/18/2020	ALS
Mecoprop in water	<0.0001	ug/L	6/18/2020	ALS
Picloram in water	<0.0001	ug/L	6/18/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/18/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/18/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.6	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS
Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303450
Sample Description : GWQ25-15A
Sample Date : June 2, 2020
Sample Received : June 2, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	419 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, total to pH 4.5	419 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.00 ± 16.9%	mg/L		9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.035 ± 7.8%	mg/L		9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.076 ± 7.5%	mg/L		9/17/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.8	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.9 ± 15%	mg/L		6/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1360 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1590 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	1660 ± 6.1%	mg/L		6/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	7080 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.86 ± 0.07 units	units		6/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	37700 ± 6.2%	mg/L		6/3/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	167 ± 13%	mg/L		6/3/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	166.5 ± 13%	mg/L		6/8/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/9/2020	COW_ASB
Arsenic (As), total in water	0.001011 ± 8.1%	mg/L		6/9/2020	COW_ASB
Barium (Ba), total in water	0.022293 ± 11.8%	mg/L		6/9/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		6/9/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L		6/9/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	0.005171 ± 10.4%	mg/L	6/9/2020	COW_ASB
Calcium (Ca), total in water	3352.7 ± 20.9%	mg/L	6/9/2020	COW_ASB
Chromium (Cr), total in water	0.10923 ± 12.8%	mg/L	6/9/2020	COW_ASB
Copper (Cu), total in water	0.004670 ± 12.1%	mg/L	6/9/2020	COW_ASB
Iron (Fe), total in water	355.96 ± 9.7%	mg/L	6/9/2020	COW_ASB
Lead (Pb), total in water	0.22599 ± 8.3%	mg/L	6/9/2020	COW_ASB
Magnesium (Mg), total in water	13.620 ± 10.5%	mg/L	6/9/2020	COW_ASB
Manganese (Mn), total in water	0.11791 ± 11.2%	mg/L	6/9/2020	COW_ASB
Nickel (Ni), total in water	0.15027 ± 12.2%	mg/L	6/9/2020	COW_ASB
Phosphorus (P), total in water	13.201	mg/L	6/9/2020	COW_ASB
Potassium (K), total in water	17.383 ± 18.3%	mg/L	6/9/2020	COW_ASB
Selenium (Se), total in water	0.00049 ± 8.0%	mg/L	6/9/2020	COW_ASB
Sodium (Na), total in water	755.17 ± 9.2%	mg/L	6/9/2020	COW_ASB
Uranium (U), total in water	0.076345 ± 10.0%	mg/L	6/9/2020	COW_ASB
Zinc (Zn), total in water	0.28312 ± 10.7%	mg/L	6/9/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	8370	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	8430	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	12816.00 ± 4.4%	NTU	6/2/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/24/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/24/2020	ALS
Arsenic (As), dissolved in water	0.00131	mg/L	6/24/2020	ALS
Barium (Ba), dissolved in water	0.0143	mg/L	6/24/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/24/2020	ALS
Boron (B), dissolved in water	0.3610	mg/L	6/24/2020	ALS
Cadmium (Cd), dissolved in water	0.000044	mg/L	6/24/2020	ALS
Calcium (Ca), dissolved in water	751.0000	mg/L	6/24/2020	ALS
Cesium (Cs), dissolved in water	0.000019	mg/L	6/24/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Cobalt (Co), dissolved in water	0.00632	mg/L	6/24/2020	ALS
Copper (Cu), dissolved in water	0.00032	mg/L	6/24/2020	ALS
Hardness dissolved in water, calculated	2760.6	mg/L	6/24/2020	ALS
Iron (Fe), dissolved in water	0.5880	mg/L	6/24/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/24/2020	ALS
Lithium (Li), dissolved in water	0.6610	mg/L	6/24/2020	ALS
Magnesium (Mg), dissolved in water	215.0000	mg/L	6/24/2020	ALS
Manganese (Mn), dissolved in water	1.6200	mg/L	6/24/2020	ALS
Molybdenum (Mo), dissolved in water	0.000417	mg/L	6/24/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00706	mg/L	6/24/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/24/2020	ALS
Potassium (K), dissolved in water	13.4000	mg/L	6/24/2020	ALS
Rubidium (Rb), dissolved in water	0.0067	mg/L	6/24/2020	ALS
Selenium (Se), dissolved in water	0.000062	mg/L	6/24/2020	ALS
Silicon (Si), dissolved in water	10.7000	mg/L	6/24/2020	ALS
Silver (Ag), dissolved in water	0.000014	mg/L	6/24/2020	ALS
Sodium (Na), dissolved in water	649.0000	mg/L	6/24/2020	ALS
Strontium (Sr), dissolved in water	4.6200	mg/L	6/24/2020	ALS
Sulfur (S), dissolved in water	643.0000	mg/L	6/24/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/24/2020	ALS
Thallium (Tl), dissolved in water	0.000051	mg/L	6/24/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/24/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Uranium (U), dissolved in water	0.029200	mg/L	6/24/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/24/2020	ALS
Zinc (Zn), dissolved in water	0.0046	mg/L	6/24/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/24/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0007100	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	81.500	%	6/24/2020	ALS
Surrogate: d14-Terphenyl in water	67.100	%	6/24/2020	ALS
Diazinon in water	<0.1000	ug/L	6/24/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/24/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/24/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	103.500	%	6/24/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/24/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/24/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/24/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	6/24/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	6/24/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	6/24/2020	ALS

Phenoxy Acid Herbicides

2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/24/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/24/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	57.1	%	6/24/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/24/2020	ALS
Bromoxynil in water	<0.0001	ug/L	6/24/2020	ALS
Clopyralid in water	<0.0001	ug/L	6/24/2020	ALS
Dicamba in water	<0.0001	ug/L	6/24/2020	ALS
Dinoseb in water	<0.0001	ug/L	6/24/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/24/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/24/2020	ALS
Mecoprop in water	<0.0001	ug/L	6/24/2020	ALS
Picloram in water	<0.0001	ug/L	6/24/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/24/2020	ALS
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Total Suspended Solids by Gravimetric Analysis

Total Suspended Solids	31400 ± 8.4%	mg/L	6/4/2020	COW_ASB
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Dissolved Solids by Gravimetric Analysis

Total Dissolved Solid, calculated	6290	mg/L	6/16/2020	COW_ASB
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/24/2020	ALS
2-Methyl Naphthalene	0.000024	mg/L	6/24/2020	ALS
Acenaphthene	<0.000020	mg/L	6/24/2020	ALS
Acenaphthylene	<0.000020	mg/L	6/24/2020	ALS
Acridine	<0.000020	mg/L	6/24/2020	ALS
Anthracene	<0.000010	mg/L	6/24/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	6/24/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	6/24/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	6/24/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	6/24/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	6/24/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	6/24/2020	ALS
Chrysene	<0.000020	mg/L	6/24/2020	ALS
Surrogate: d10-Acenaphthene	90.1	%	6/24/2020	ALS
Surrogate: d10-Phenanthrene	100.4	%	6/24/2020	ALS
Surrogate: d12-Chrysene	89.0	%	6/24/2020	ALS
Surrogate: d8-Naphthalene	89.5	%	6/24/2020	ALS
Surrogate: d9-Acridine (SS)	50.2	%	6/24/2020	ALS

CCME PAHs in mg/L

Dibenzo(a,h)anthracene	<0.000050	mg/L	6/24/2020	ALS
Fluoranthene	<0.000020	mg/L	6/24/2020	ALS
Fluorene	<0.000020	mg/L	6/24/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/24/2020	ALS
Naphthalene	<0.000050	mg/L	6/24/2020	ALS
Phenanthrene	<0.000050	mg/L	6/24/2020	ALS
Pyrene	0.000011	mg/L	6/24/2020	ALS
Quinoline	<0.000020	mg/L	6/24/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.2	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS
Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303451
Sample Description : GWQ25-16A
Sample Date : June 2, 2020
Sample Received : June 2, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	415 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, total to pH 4.5	415 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.799 ± 16.9%	mg/L		9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.232 ± 7.8%	mg/L		9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.039 ± 7.5%	mg/L		9/17/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		6/8/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		6/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	970 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1130 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	80.0 ± 6.1%	mg/L		6/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	5400 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.06 ± 0.07 units	units		6/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5780 ± 6.2%	mg/L		6/3/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	14.1 ± 13%	mg/L		6/3/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	10.4 ± 13%	mg/L		6/8/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/9/2020	COW_ASB
Arsenic (As), total in water	0.001777 ± 8.1%	mg/L		6/9/2020	COW_ASB
Barium (Ba), total in water	0.019229 ± 11.8%	mg/L		6/9/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		6/9/2020	COW_ASB
Boron (B), total in water	0.09631 ± 24.2%	mg/L		6/9/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	0.000253 ± 10.4%	mg/L	6/9/2020	COW_ASB
Calcium (Ca), total in water	780.76 ± 20.9%	mg/L	6/9/2020	COW_ASB
Chromium (Cr), total in water	0.02165 ± 12.8%	mg/L	6/9/2020	COW_ASB
Copper (Cu), total in water	0.003476 ± 12.1%	mg/L	6/9/2020	COW_ASB
Iron (Fe), total in water	20.758 ± 9.7%	mg/L	6/9/2020	COW_ASB
Lead (Pb), total in water	0.009797 ± 8.3%	mg/L	6/9/2020	COW_ASB
Magnesium (Mg), total in water	51.187 ± 10.5%	mg/L	6/9/2020	COW_ASB
Manganese (Mn), total in water	0.27897 ± 11.2%	mg/L	6/9/2020	COW_ASB
Nickel (Ni), total in water	0.026819 ± 12.2%	mg/L	6/9/2020	COW_ASB
Phosphorus (P), total in water	0.7707	mg/L	6/9/2020	COW_ASB
Potassium (K), total in water	13.527 ± 18.3%	mg/L	6/9/2020	COW_ASB
Selenium (Se), total in water	0.00072 ± 8.0%	mg/L	6/9/2020	COW_ASB
Sodium (Na), total in water	497.51 ± 9.2%	mg/L	6/9/2020	COW_ASB
Uranium (U), total in water	0.018018 ± 10.0%	mg/L	6/9/2020	COW_ASB
Zinc (Zn), total in water	0.05575 ± 10.7%	mg/L	6/9/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1950	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	2160	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	451.00 ± 4.4%	NTU	6/2/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0013	mg/L	6/24/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/24/2020	ALS
Arsenic (As), dissolved in water	0.00055	mg/L	6/24/2020	ALS
Barium (Ba), dissolved in water	0.0120	mg/L	6/24/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/24/2020	ALS
Boron (B), dissolved in water	0.3960	mg/L	6/24/2020	ALS
Cadmium (Cd), dissolved in water	0.000044	mg/L	6/24/2020	ALS
Calcium (Ca), dissolved in water	493.0000	mg/L	6/24/2020	ALS
Cesium (Cs), dissolved in water	0.000015	mg/L	6/24/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Cobalt (Co), dissolved in water	0.00441	mg/L	6/24/2020	ALS
Copper (Cu), dissolved in water	0.00064	mg/L	6/24/2020	ALS
Hardness dissolved in water, calculated	1889.9	mg/L	6/24/2020	ALS
Iron (Fe), dissolved in water	0.0720	mg/L	6/24/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/24/2020	ALS
Lithium (Li), dissolved in water	0.4250	mg/L	6/24/2020	ALS
Magnesium (Mg), dissolved in water	160.0000	mg/L	6/24/2020	ALS
Manganese (Mn), dissolved in water	0.9020	mg/L	6/24/2020	ALS
Molybdenum (Mo), dissolved in water	0.000638	mg/L	6/24/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00511	mg/L	6/24/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/24/2020	ALS
Potassium (K), dissolved in water	9.9200	mg/L	6/24/2020	ALS
Rubidium (Rb), dissolved in water	0.0053	mg/L	6/24/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/24/2020	ALS
Silicon (Si), dissolved in water	10.4000	mg/L	6/24/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/24/2020	ALS
Sodium (Na), dissolved in water	412.0000	mg/L	6/24/2020	ALS
Strontium (Sr), dissolved in water	3.2900	mg/L	6/24/2020	ALS
Sulfur (S), dissolved in water	427.0000	mg/L	6/24/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/24/2020	ALS
Thallium (Tl), dissolved in water	0.000032	mg/L	6/24/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/24/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/24/2020	ALS
Uranium (U), dissolved in water	0.013100	mg/L	6/24/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/24/2020	ALS
Zinc (Zn), dissolved in water	0.0048	mg/L	6/24/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/24/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0000200	mg/L	6/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/24/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	87.000	%	6/24/2020	ALS
Surrogate: d14-Terphenyl in water	78.200	%	6/24/2020	ALS
Diazinon in water	<0.1000	ug/L	6/24/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/24/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/24/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	102.000	%	6/24/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/24/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/24/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/24/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	6/24/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	6/24/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/24/2020	ALS

Phenoxy Acid Herbicides

2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/24/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/24/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	76.3	%	6/24/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/24/2020	ALS
Bromoxynil in water	<0.0001	ug/L	6/24/2020	ALS
Clopyralid in water	<0.0001	ug/L	6/24/2020	ALS
Dicamba in water	<0.0001	ug/L	6/24/2020	ALS
Dinoseb in water	<0.0001	ug/L	6/24/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/24/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/24/2020	ALS
Mecoprop in water	<0.0001	ug/L	6/24/2020	ALS
Picloram in water	<0.0001	ug/L	6/24/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/24/2020	ALS
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Total Suspended Solids by Gravimetric Analysis

Total Suspended Solids	1810 ± 8.4%	mg/L	6/4/2020	COW_ASB
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Dissolved Solids by Gravimetric Analysis

Total Dissolved Solid, calculated	3970	mg/L	6/16/2020	COW_ASB
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/24/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/24/2020	ALS
2-Methyl Naphthalene	0.000023	mg/L	6/24/2020	ALS
Acenaphthene	<0.000020	mg/L	6/24/2020	ALS
Acenaphthylene	<0.000020	mg/L	6/24/2020	ALS
Acridine	<0.000020	mg/L	6/24/2020	ALS
Anthracene	<0.000010	mg/L	6/24/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	6/24/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	6/24/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	6/24/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	6/24/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	6/24/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	6/24/2020	ALS
Chrysene	<0.000020	mg/L	6/24/2020	ALS
Surrogate: d10-Acenaphthene	89.4	%	6/24/2020	ALS
Surrogate: d10-Phenanthrene	100.2	%	6/24/2020	ALS
Surrogate: d12-Chrysene	88.7	%	6/24/2020	ALS
Surrogate: d8-Naphthalene	87.3	%	6/24/2020	ALS
Surrogate: d9-Acridine (SS)	63.0	%	6/24/2020	ALS

CCME PAHs in mg/L

Dibenzo(a,h)anthracene	<0.000050	mg/L	6/24/2020	ALS
Fluoranthene	<0.000020	mg/L	6/24/2020	ALS
Fluorene	<0.000020	mg/L	6/24/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/24/2020	ALS
Naphthalene	<0.000050	mg/L	6/24/2020	ALS
Phenanthrene	<0.000050	mg/L	6/24/2020	ALS
Pyrene	<0.000010	mg/L	6/24/2020	ALS
Quinoline	<0.000020	mg/L	6/24/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.3	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS
Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303452
Sample Description : GWQ25-101
Sample Date : June 3, 2020
Sample Received : June 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	1230 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, total to pH 4.5	1230 ± 2.8%	mg/L		6/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.13 ± 16.9%	mg/L		9/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.027 ± 7.8%	mg/L		9/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.039 ± 7.5%	mg/L		9/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.8	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.8 ± 15%	mg/L		6/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2160 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2020 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	285 ± 6.1%	mg/L		6/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8410 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.42 ± 0.07 units	units		6/3/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	17200 ± 6.2%	mg/L		6/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5280 ± 6.5%	mg/L		6/10/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	11940	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.1 ± 13%	mg/L		6/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1061 ± 13%	mg/L		6/10/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/9/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.001457 ± 8.1%	mg/L	6/9/2020	COW_ASB
Barium (Ba), total in water	0.026087 ± 11.8%	mg/L	6/9/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/9/2020	COW_ASB
Boron (B), total in water	0.06367 ± 24.2%	mg/L	6/9/2020	COW_ASB
Cadmium (Cd), total in water	0.000438 ± 10.4%	mg/L	6/9/2020	COW_ASB
Calcium (Ca), total in water	1185.4 ± 20.9%	mg/L	6/9/2020	COW_ASB
Chromium (Cr), total in water	0.06652 ± 12.8%	mg/L	6/9/2020	COW_ASB
Copper (Cu), total in water	0.004954 ± 12.1%	mg/L	6/9/2020	COW_ASB
Iron (Fe), total in water	68.795 ± 9.7%	mg/L	6/9/2020	COW_ASB
Lead (Pb), total in water	0.042847 ± 8.3%	mg/L	6/9/2020	COW_ASB
Magnesium (Mg), total in water	37.001 ± 10.5%	mg/L	6/9/2020	COW_ASB
Manganese (Mn), total in water	0.15930 ± 11.2%	mg/L	6/9/2020	COW_ASB
Nickel (Ni), total in water	0.12680 ± 12.2%	mg/L	6/9/2020	COW_ASB
Phosphorus (P), total in water	2.2261	mg/L	6/9/2020	COW_ASB
Potassium (K), total in water	34.462 ± 18.3%	mg/L	6/9/2020	COW_ASB
Selenium (Se), total in water	0.00060 ± 8.0%	mg/L	6/9/2020	COW_ASB
Sodium (Na), total in water	1346.6 ± 9.2%	mg/L	6/9/2020	COW_ASB
Uranium (U), total in water	0.006877 ± 10.0%	mg/L	6/9/2020	COW_ASB
Zinc (Zn), total in water	0.11770 ± 10.7%	mg/L	6/9/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	2960	mg/L	6/13/2020	COW_ASB
Total Hardness, calculated in water	3110	mg/L	6/13/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2588.00 ± 4.4%	NTU	6/3/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.2170	mg/L	6/18/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/18/2020	ALS
Arsenic (As), dissolved in water	0.00170	mg/L	6/18/2020	ALS
Barium (Ba), dissolved in water	0.0167	mg/L	6/18/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Boron (B), dissolved in water	0.8570	mg/L	6/18/2020	ALS
Cadmium (Cd), dissolved in water	0.000022	mg/L	6/18/2020	ALS
Calcium (Ca), dissolved in water	387.0000	mg/L	6/18/2020	ALS
Cesium (Cs), dissolved in water	0.000058	mg/L	6/18/2020	ALS
Chromium (Cr), dissolved in water	0.00042	mg/L	6/18/2020	ALS
Cobalt (Co), dissolved in water	0.00164	mg/L	6/18/2020	ALS
Copper (Cu), dissolved in water	0.00129	mg/L	6/18/2020	ALS
Hardness dissolved in water, calculated	1658.2	mg/L	6/18/2020	ALS
Iron (Fe), dissolved in water	0.4940	mg/L	6/18/2020	ALS
Lead (Pb), dissolved in water	0.000193	mg/L	6/18/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3480	mg/L	6/18/2020	ALS
Magnesium (Mg), dissolved in water	168.0000	mg/L	6/18/2020	ALS
Manganese (Mn), dissolved in water	0.3260	mg/L	6/18/2020	ALS
Molybdenum (Mo), dissolved in water	0.002320	mg/L	6/18/2020	ALS
Nickel (Ni), dissolved in water	0.00232	mg/L	6/18/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/18/2020	ALS
Potassium (K), dissolved in water	30.3000	mg/L	6/18/2020	ALS
Rubidium (Rb), dissolved in water	0.0129	mg/L	6/18/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Silicon (Si), dissolved in water	7.0100	mg/L	6/18/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Sodium (Na), dissolved in water	944.0000	mg/L	6/18/2020	ALS
Strontium (Sr), dissolved in water	3.7700	mg/L	6/18/2020	ALS
Sulfur (S), dissolved in water	326.0000	mg/L	6/18/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/18/2020	ALS
Thallium (Tl), dissolved in water	0.000049	mg/L	6/18/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Titanium (Ti), dissolved in water	0.01070	mg/L	6/18/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Uranium (U), dissolved in water	0.003130	mg/L	6/18/2020	ALS
Vanadium (V), dissolved in water	0.00061	mg/L	6/18/2020	ALS
Zinc (Zn), dissolved in water	0.0031	mg/L	6/18/2020	ALS
Zirconium (Zr), dissolved in water	0.00038	mg/L	6/18/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0001400	mg/L	6/18/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/18/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/18/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	94.000	%	6/18/2020	ALS
Surrogate: d14-Terphenyl in water	105.300	%	6/18/2020	ALS
Diazinon in water	<0.1000	ug/L	6/18/2020	ALS

CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/18/2020	ALS
2-Methyl Naphthalene	0.000031	mg/L	6/18/2020	ALS
Acenaphthene	<0.000020	mg/L	6/18/2020	ALS
Acenaphthylene	<0.000020	mg/L	6/18/2020	ALS
Acridine	<0.000020	mg/L	6/18/2020	ALS
Anthracene	<0.000010	mg/L	6/18/2020	ALS

CCME PAHs in mg/L

B(a)P Total Potency Equivalent	<0.000030	mg/L	6/18/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	6/18/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	6/18/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	6/18/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	6/18/2020	ALS
Chrysene	<0.000020	mg/L	6/18/2020	ALS
Surrogate: d10-Acenaphthene	90.1	%	6/18/2020	ALS
Surrogate: d10-Phenanthrene	99.4	%	6/18/2020	ALS
Surrogate: d12-Chrysene	88.9	%	6/18/2020	ALS
Surrogate: d8-Naphthalene	86.4	%	6/18/2020	ALS
Surrogate: d9-Acridine (SS)	65.8	%	6/18/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	6/18/2020	ALS
Fluoranthene	<0.000020	mg/L	6/18/2020	ALS
Fluorene	<0.000020	mg/L	6/18/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/18/2020	ALS
Naphthalene	<0.000050	mg/L	6/18/2020	ALS
Phenanthrene	<0.000050	mg/L	6/18/2020	ALS
Pyrene	<0.000010	mg/L	6/18/2020	ALS
Quinoline	<0.000020	mg/L	6/18/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/18/2020	ALS
Total Hydrocarbons (C6-C50)	2.00	mg/L	6/18/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	138.900	%	6/18/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/18/2020	ALS
Fraction 3 (C16-C34)	1.180	mg/L	6/18/2020	ALS
Fraction 4 (C34-C50)	0.820	mg/L	6/18/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	6/18/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	6/18/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	6/18/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	6/18/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0010	ug/L	6/18/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	73.3	%	6/18/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0010	ug/L	6/18/2020	ALS
Bromoxynil in water	<0.0010	ug/L	6/18/2020	ALS
Clopyralid in water	<0.0010	ug/L	6/18/2020	ALS
Dicamba in water	<0.0010	ug/L	6/18/2020	ALS
Dinoseb in water	<0.0010	ug/L	6/18/2020	ALS

Phenoxy Acid Herbicides

2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	6/18/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0010	ug/L	6/18/2020	ALS
Mecoprop in water	<0.0010	ug/L	6/18/2020	ALS
Picloram in water	<0.0010	ug/L	6/18/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/18/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/18/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	98.3	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS
Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303453
Sample Description : GWQ25-6N60DR
Sample Date : June 4, 2020
Sample Received : June 4, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	528 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, total to pH 4.5	528 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.012 ± 16.9%	mg/L		6/11/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.923 ± 7.8%	mg/L		6/11/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.027 ± 7.5%	mg/L		6/11/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.2	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.1 ± 15%	mg/L		6/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	369 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1680 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	47.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4820 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.81 ± 0.07 units	units		6/4/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	4140 ± 6.2%	mg/L		6/5/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3960 ± 6.5%	mg/L		6/10/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	183.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	8.4 ± 13%	mg/L		6/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	9.9 ± 13%	mg/L		6/10/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000445 ± 9.2%	mg/L		6/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.002355 ± 8.1%	mg/L	6/15/2020	COW_ASB
Barium (Ba), total in water	0.033006 ± 11.8%	mg/L	6/15/2020	COW_ASB
Beryllium (Be), total in water	0.00012 ± 16.8%	mg/L	6/15/2020	COW_ASB
Boron (B), total in water	0.34109 ± 24.2%	mg/L	6/15/2020	COW_ASB
Cadmium (Cd), total in water	0.000097 ± 10.4%	mg/L	6/15/2020	COW_ASB
Calcium (Ca), total in water	549.87 ± 20.9%	mg/L	6/15/2020	COW_ASB
Chromium (Cr), total in water	0.00584 ± 12.8%	mg/L	6/15/2020	COW_ASB
Copper (Cu), total in water	0.005939 ± 12.1%	mg/L	6/15/2020	COW_ASB
Iron (Fe), total in water	4.1880 ± 9.7%	mg/L	6/15/2020	COW_ASB
Lead (Pb), total in water	0.002802 ± 8.3%	mg/L	6/15/2020	COW_ASB
Magnesium (Mg), total in water	192.97 ± 10.5%	mg/L	6/15/2020	COW_ASB
Manganese (Mn), total in water	1.9928 ± 11.2%	mg/L	6/15/2020	COW_ASB
Nickel (Ni), total in water	0.011335 ± 12.2%	mg/L	6/15/2020	COW_ASB
Phosphorus (P), total in water	0.2184	mg/L	6/15/2020	COW_ASB
Potassium (K), total in water	9.249 ± 18.3%	mg/L	6/15/2020	COW_ASB
Selenium (Se), total in water	0.00136 ± 8.0%	mg/L	6/15/2020	COW_ASB
Sodium (Na), total in water	307.86 ± 9.2%	mg/L	6/15/2020	COW_ASB
Uranium (U), total in water	0.038201 ± 10.0%	mg/L	6/15/2020	COW_ASB
Zinc (Zn), total in water	0.02244 ± 10.7%	mg/L	6/15/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1370	mg/L	6/16/2020	COW_ASB
Total Hardness, calculated in water	2170	mg/L	6/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	122.00 ± 4.4%	NTU	6/4/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00048	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0087	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.2570	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000026	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	405.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00125	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00187	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	1670.2	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	0.0160	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.4130	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	160.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	1.1000	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.000736	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.00640	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	9.8200	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0051	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	0.000069	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	9.0300	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	267.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	3.7800	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	542.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	0.000023	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.033800	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0064	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	0.00032	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	94.400	%	6/22/2020	ALS
Surrogate: d14-Terphenyl in water	98.000	%	6/22/2020	ALS
Diazinon in water	<0.1000	ug/L	6/22/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/22/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	109.700	%	6/22/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/22/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/22/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/22/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	6/22/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	6/22/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/22/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/22/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/22/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	75.9	%	6/22/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/22/2020	ALS
Bromoxynil in water	<0.0001	ug/L	6/22/2020	ALS
Clopyralid in water	<0.0001	ug/L	6/22/2020	ALS
Dicamba in water	<0.0001	ug/L	6/22/2020	ALS
Dinoseb in water	<0.0001	ug/L	6/22/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/22/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/22/2020	ALS
Mecoprop in water	<0.0001	ug/L	6/22/2020	ALS
Picloram in water	<0.0001	ug/L	6/22/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/22/2020	ALS
2-Methyl Naphthalene	<0.000020	mg/L	6/22/2020	ALS
Acenaphthene	<0.000020	mg/L	6/22/2020	ALS
Acenaphthylene	<0.000020	mg/L	6/22/2020	ALS
Acridine	<0.000020	mg/L	6/22/2020	ALS
Anthracene	<0.000010	mg/L	6/22/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	6/22/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	6/22/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	6/22/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	6/22/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	6/22/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	6/22/2020	ALS
Chrysene	<0.000020	mg/L	6/22/2020	ALS
Surrogate: d10-Acenaphthene	94.3	%	6/22/2020	ALS
Surrogate: d10-Phenanthrene	97.9	%	6/22/2020	ALS
Surrogate: d12-Chrysene	85.5	%	6/22/2020	ALS
Surrogate: d8-Naphthalene	135.2	%	6/22/2020	ALS

CCME PAHs in mg/L

Surrogate: d9-Acridine (SS)	79.4	%	6/22/2020	ALS
Dibenzo(a,h)anthracene	<0.000050	mg/L	6/22/2020	ALS
Fluoranthene	<0.000020	mg/L	6/22/2020	ALS
Fluorene	<0.000020	mg/L	6/22/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/22/2020	ALS
Naphthalene	<0.000050	mg/L	6/22/2020	ALS
Phenanthrene	<0.000050	mg/L	6/22/2020	ALS
Pyrene	<0.000010	mg/L	6/22/2020	ALS
Quinoline	<0.000020	mg/L	6/22/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	98.9	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS
Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303454
Sample Description : GWQ25-6N60E
Sample Date : June 4, 2020
Sample Received : June 4, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	587 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, total to pH 4.5	587 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.186 ± 16.9%	mg/L		6/11/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.638 ± 7.8%	mg/L		6/11/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.025 ± 7.5%	mg/L		6/11/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.3	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.0 ± 15%	mg/L		6/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	340 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1410 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	35.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4140 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.94 ± 0.07 units	units		6/4/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3930 ± 6.2%	mg/L		6/5/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3330 ± 6.5%	mg/L		6/10/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	602.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	7.8 ± 13%	mg/L		6/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	8.1 ± 13%	mg/L		6/10/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000869 ± 9.2%	mg/L		6/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.002880 ± 8.1%	mg/L	6/15/2020	COW_ASB
Barium (Ba), total in water	0.030389 ± 11.8%	mg/L	6/15/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/15/2020	COW_ASB
Boron (B), total in water	0.37476 ± 24.2%	mg/L	6/15/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/15/2020	COW_ASB
Calcium (Ca), total in water	480.99 ± 20.9%	mg/L	6/15/2020	COW_ASB
Chromium (Cr), total in water	0.00526 ± 12.8%	mg/L	6/15/2020	COW_ASB
Copper (Cu), total in water	0.003843 ± 12.1%	mg/L	6/15/2020	COW_ASB
Iron (Fe), total in water	3.0956 ± 9.7%	mg/L	6/15/2020	COW_ASB
Lead (Pb), total in water	0.001795 ± 8.3%	mg/L	6/15/2020	COW_ASB
Magnesium (Mg), total in water	184.91 ± 10.5%	mg/L	6/15/2020	COW_ASB
Manganese (Mn), total in water	1.3943 ± 11.2%	mg/L	6/15/2020	COW_ASB
Nickel (Ni), total in water	0.010107 ± 12.2%	mg/L	6/15/2020	COW_ASB
Phosphorus (P), total in water	0.1562	mg/L	6/15/2020	COW_ASB
Potassium (K), total in water	8.017 ± 18.3%	mg/L	6/15/2020	COW_ASB
Selenium (Se), total in water	0.00024 ± 8.0%	mg/L	6/15/2020	COW_ASB
Sodium (Na), total in water	326.35 ± 9.2%	mg/L	6/15/2020	COW_ASB
Uranium (U), total in water	0.054805 ± 10.0%	mg/L	6/15/2020	COW_ASB
Zinc (Zn), total in water	0.01911 ± 10.7%	mg/L	6/15/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1200	mg/L	6/16/2020	COW_ASB
Total Hardness, calculated in water	1960	mg/L	6/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	193.00 ± 4.4%	NTU	6/4/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	0.000200	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00115	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0092	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.2320	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000013	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	392.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00392	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00176	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	1538.9	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	0.1110	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3510	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	136.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	1.2100	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.003510	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.00724	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	8.2600	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0044	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	8.3200	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	272.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	2.6200	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	421.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	0.00015	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.048100	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0037	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	0.00036	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0000100	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	92.200	%	6/22/2020	ALS
Surrogate: d14-Terphenyl in water	108.900	%	6/22/2020	ALS
Diazinon in water	<0.1000	ug/L	6/22/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/22/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	104.100	%	6/22/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/22/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/22/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/22/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	6/22/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	6/22/2020	ALS
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2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/22/2020	ALS
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2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/22/2020	ALS
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2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/22/2020	ALS
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Surrogate: 2,4-Dichlorophenylacetic Acid in water	68.1	%	6/22/2020	ALS
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2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/22/2020	ALS
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Bromoxynil in water	<0.0001	ug/L	6/22/2020	ALS
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Clopyralid in water	<0.0001	ug/L	6/22/2020	ALS
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Dicamba in water	<0.0001	ug/L	6/22/2020	ALS
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Dinoseb in water	<0.0001	ug/L	6/22/2020	ALS
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2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/22/2020	ALS
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2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/22/2020	ALS
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Mecoprop in water	<0.0001	ug/L	6/22/2020	ALS
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Picloram in water	<0.0001	ug/L	6/22/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/22/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	6/22/2020	ALS
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Acenaphthene	<0.000020	mg/L	6/22/2020	ALS
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Acenaphthylene	<0.000020	mg/L	6/22/2020	ALS
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Acridine	<0.000020	mg/L	6/22/2020	ALS
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Anthracene	<0.000010	mg/L	6/22/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	6/22/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	6/22/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	6/22/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	6/22/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	6/22/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	6/22/2020	ALS
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Chrysene	<0.000020	mg/L	6/22/2020	ALS
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Surrogate: d10-Acenaphthene	87.0	%	6/22/2020	ALS
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Surrogate: d10-Phenanthrene	98.7	%	6/22/2020	ALS
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Surrogate: d12-Chrysene	87.7	%	6/22/2020	ALS
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Surrogate: d8-Naphthalene	80.2	%	6/22/2020	ALS
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CCME PAHs in mg/L

Surrogate: d9-Acridine (SS)	93.2	%	6/22/2020	ALS
Dibenzo(a,h)anthracene	<0.000050	mg/L	6/22/2020	ALS
Fluoranthene	<0.000020	mg/L	6/22/2020	ALS
Fluorene	<0.000020	mg/L	6/22/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/22/2020	ALS
Naphthalene	<0.000050	mg/L	6/22/2020	ALS
Phenanthrene	<0.000050	mg/L	6/22/2020	ALS
Pyrene	<0.000010	mg/L	6/22/2020	ALS
Quinoline	<0.000020	mg/L	6/22/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.1	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS
Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303455
Sample Description : GWQ25-5N62E
Sample Date : June 4, 2020
Sample Received : June 4, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	545 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, total to pH 4.5	545 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.849 ± 16.9%	mg/L		6/11/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.111 ± 7.8%	mg/L		6/11/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.015 ± 7.5%	mg/L		6/11/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.9	mg/L		6/12/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.0 ± 15%	mg/L		6/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2210 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2010 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	108 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8650 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.37 ± 0.07 units	units		6/4/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	6500 ± 6.2%	mg/L		6/5/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5350 ± 6.5%	mg/L		6/10/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	1154	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.4 ± 13%	mg/L		6/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	3.4 ± 13%	mg/L		6/10/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001025 ± 9.2%	mg/L		6/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.009200 ± 8.1%	mg/L	6/15/2020	COW_ASB
Barium (Ba), total in water	0.085210 ± 11.8%	mg/L	6/15/2020	COW_ASB
Beryllium (Be), total in water	0.00030 ± 16.8%	mg/L	6/15/2020	COW_ASB
Boron (B), total in water	0.88154 ± 24.2%	mg/L	6/15/2020	COW_ASB
Cadmium (Cd), total in water	0.000065 ± 10.4%	mg/L	6/15/2020	COW_ASB
Calcium (Ca), total in water	587.03 ± 20.9%	mg/L	6/15/2020	COW_ASB
Chromium (Cr), total in water	0.01386 ± 12.8%	mg/L	6/15/2020	COW_ASB
Copper (Cu), total in water	0.009672 ± 12.1%	mg/L	6/15/2020	COW_ASB
Iron (Fe), total in water	10.170 ± 9.7%	mg/L	6/15/2020	COW_ASB
Lead (Pb), total in water	0.007528 ± 8.3%	mg/L	6/15/2020	COW_ASB
Magnesium (Mg), total in water	254.58 ± 10.5%	mg/L	6/15/2020	COW_ASB
Manganese (Mn), total in water	0.43681 ± 11.2%	mg/L	6/15/2020	COW_ASB
Nickel (Ni), total in water	0.010185 ± 12.2%	mg/L	6/15/2020	COW_ASB
Phosphorus (P), total in water	0.5482	mg/L	6/15/2020	COW_ASB
Potassium (K), total in water	28.466 ± 18.3%	mg/L	6/15/2020	COW_ASB
Selenium (Se), total in water	0.00228 ± 8.0%	mg/L	6/15/2020	COW_ASB
Sodium (Na), total in water	1194.9 ± 9.2%	mg/L	6/15/2020	COW_ASB
Uranium (U), total in water	0.005087 ± 10.0%	mg/L	6/15/2020	COW_ASB
Zinc (Zn), total in water	0.03501 ± 10.7%	mg/L	6/15/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1470	mg/L	6/16/2020	COW_ASB
Total Hardness, calculated in water	2510	mg/L	6/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	942.00 ± 4.4%	NTU	6/4/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0029	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00170	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0120	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.5740	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000007	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	304.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00054	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00055	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	1282.1	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	0.1590	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.2630	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	127.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	0.0752	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.002810	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.00117	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	30.9000	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0138	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	4.5100	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	1280.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	3.7600	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	234.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.005010	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0056	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0000150	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	93.800	%	6/22/2020	ALS
Surrogate: d14-Terphenyl in water	98.600	%	6/22/2020	ALS
Diazinon in water	<0.1000	ug/L	6/22/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/22/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	111.100	%	6/22/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/22/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/22/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/22/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	6/22/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	6/22/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/22/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/22/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/22/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	77.3	%	6/22/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/22/2020	ALS
Bromoxynil in water	<0.0001	ug/L	6/22/2020	ALS
Clopyralid in water	<0.0001	ug/L	6/22/2020	ALS
Dicamba in water	<0.0001	ug/L	6/22/2020	ALS
Dinoseb in water	<0.0001	ug/L	6/22/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/22/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/22/2020	ALS
Mecoprop in water	<0.0001	ug/L	6/22/2020	ALS
Picloram in water	<0.0001	ug/L	6/22/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/22/2020	ALS
2-Methyl Naphthalene	<0.000020	mg/L	6/22/2020	ALS
Acenaphthene	<0.000020	mg/L	6/22/2020	ALS
Acenaphthylene	<0.000020	mg/L	6/22/2020	ALS
Acridine	<0.000020	mg/L	6/22/2020	ALS
Anthracene	<0.000010	mg/L	6/22/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	6/22/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	6/22/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	6/22/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	6/22/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	6/22/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	6/22/2020	ALS
Chrysene	<0.000020	mg/L	6/22/2020	ALS
Surrogate: d10-Acenaphthene	87.4	%	6/22/2020	ALS
Surrogate: d10-Phenanthrene	100.2	%	6/22/2020	ALS
Surrogate: d12-Chrysene	90.6	%	6/22/2020	ALS
Surrogate: d8-Naphthalene	79.7	%	6/22/2020	ALS

CCME PAHs in mg/L

Surrogate: d9-Acridine (SS)	100.3	%	6/22/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	6/22/2020	ALS
Fluoranthene	<0.000020	mg/L	6/22/2020	ALS
Fluorene	<0.000020	mg/L	6/22/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/22/2020	ALS
Naphthalene	<0.000050	mg/L	6/22/2020	ALS
Phenanthrene	<0.000050	mg/L	6/22/2020	ALS
Pyrene	<0.000010	mg/L	6/22/2020	ALS
Quinoline	<0.000020	mg/L	6/22/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	99.2	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS
Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sample No. : 303456
Sample Description : GWQ25-4N34DR
Sample Date : June 8, 2020
Sample Received : June 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	463 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, total to pH 4.5	463 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.469 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.463 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.025 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.9	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.3 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	570 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2320 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	50.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6270 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.06 ± 0.07 units	units		6/8/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	8070 ± 6.2%	mg/L		6/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5510 ± 6.5%	mg/L		6/10/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	2565	mg/L		6/12/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	13.8 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	15.4 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001474 ± 9.2%	mg/L		6/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.004391 ± 8.1%	mg/L	6/23/2020	COW_ASB
Barium (Ba), total in water	0.046604 ± 11.8%	mg/L	6/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/23/2020	COW_ASB
Boron (B), total in water	0.44869 ± 24.2%	mg/L	6/23/2020	COW_ASB
Cadmium (Cd), total in water	0.000199 ± 10.4%	mg/L	6/23/2020	COW_ASB
Calcium (Ca), total in water	568.97 ± 20.9%	mg/L	6/23/2020	COW_ASB
Chromium (Cr), total in water	0.01302 ± 12.8%	mg/L	6/23/2020	COW_ASB
Copper (Cu), total in water	0.007008 ± 12.1%	mg/L	6/23/2020	COW_ASB
Iron (Fe), total in water	6.6001 ± 9.7%	mg/L	6/23/2020	COW_ASB
Lead (Pb), total in water	0.003534 ± 8.3%	mg/L	6/23/2020	COW_ASB
Magnesium (Mg), total in water	453.42 ± 10.5%	mg/L	6/23/2020	COW_ASB
Manganese (Mn), total in water	0.21869 ± 11.2%	mg/L	6/23/2020	COW_ASB
Nickel (Ni), total in water	0.012835 ± 12.2%	mg/L	6/23/2020	COW_ASB
Phosphorus (P), total in water	0.2534	mg/L	6/23/2020	COW_ASB
Potassium (K), total in water	15.883 ± 18.3%	mg/L	6/23/2020	COW_ASB
Selenium (Se), total in water	0.00082 ± 8.0%	mg/L	6/23/2020	COW_ASB
Sodium (Na), total in water	563.87 ± 9.2%	mg/L	6/23/2020	COW_ASB
Uranium (U), total in water	0.028358 ± 10.0%	mg/L	6/23/2020	COW_ASB
Zinc (Zn), total in water	0.02071 ± 10.7%	mg/L	6/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1420	mg/L	6/24/2020	COW_ASB
Total Hardness, calculated in water	3290	mg/L	6/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	492.00 ± 4.4%	NTU	6/8/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0025	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00110	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0107	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.3610	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000022	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	448.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	0.000011	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00186	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00122	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	2695.9	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	0.0820	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	<0.0100	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	383.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	0.0633	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.001380	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.00495	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	16.4000	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0040	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	0.000079	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	9.6900	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	487.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	4.1400	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	12.9000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	0.000013	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.027300	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0025	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	0.00080	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0000170	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	98.100	%	6/22/2020	ALS
Surrogate: d14-Terphenyl in water	122.400	%	6/22/2020	ALS
Diazinon in water	<0.1000	ug/L	6/22/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/22/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	101.900	%	6/22/2020	ALS
Fraction 2 (C10-C16)	0.130	mg/L	6/22/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/22/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/22/2020	ALS

Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	6/22/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	6/22/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	6/22/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	6/22/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	6/22/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	85.8	%	6/22/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	6/22/2020	ALS
Bromoxynil in water	<0.0001	ug/L	6/22/2020	ALS
Clopyralid in water	<0.0001	ug/L	6/22/2020	ALS
Dicamba in water	<0.0001	ug/L	6/22/2020	ALS
Dinoseb in water	<0.0001	ug/L	6/22/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	6/22/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	6/22/2020	ALS
Mecoprop in water	<0.0001	ug/L	6/22/2020	ALS
Picloram in water	<0.0001	ug/L	6/22/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	7/21/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	7/21/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	7/21/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	7/21/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	7/21/2020	ALS
Surrogate: 1,4-Difluorobenzene	98.0	%	7/21/2020	ALS
Acetone	<0.050	mg/L	7/21/2020	ALS
Benzene	<0.00050	mg/L	7/21/2020	ALS
Bromodichloromethane	<0.00050	mg/L	7/21/2020	ALS
Bromoform	<0.0010	mg/L	7/21/2020	ALS
Bromomethane	<0.001	mg/L	7/21/2020	ALS
Chlorobenzene	<0.0010	mg/L	7/21/2020	ALS
Chloroethane	<0.001	mg/L	7/21/2020	ALS
Chloroform	<0.00050	mg/L	7/21/2020	ALS
Chloromethane	<0.005	mg/L	7/21/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Dibromochloromethane	<0.0005	mg/L	7/21/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	7/21/2020	ALS
Dichloromethane	<0.00500	mg/L	7/21/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/21/2020	ALS

VOC plus F1 by GCMS

Methyltertbutylether [MTBE]	<0.0005	mg/L	7/21/2020	ALS
o-Xylene	<0.0005	mg/L	7/21/2020	ALS
Styrene	<0.0010	mg/L	7/21/2020	ALS
Toluene	<0.00050	mg/L	7/21/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/21/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/21/2020	ALS
Vinyl Chloride	<0.0005	mg/L	7/21/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	6/22/2020	ALS
2-Methyl Naphthalene	<0.000020	mg/L	6/22/2020	ALS
Acenaphthene	<0.000020	mg/L	6/22/2020	ALS
Acenaphthylene	<0.000020	mg/L	6/22/2020	ALS
Acridine	<0.000020	mg/L	6/22/2020	ALS
Anthracene	<0.000010	mg/L	6/22/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	6/22/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	6/22/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	6/22/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	6/22/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	6/22/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	6/22/2020	ALS
Chrysene	<0.000020	mg/L	6/22/2020	ALS
Surrogate: d10-Acenaphthene	97.6	%	6/22/2020	ALS
Surrogate: d10-Phenanthrene	101.3	%	6/22/2020	ALS
Surrogate: d12-Chrysene	86.6	%	6/22/2020	ALS
Surrogate: d8-Naphthalene	92.9	%	6/22/2020	ALS
Surrogate: d9-Acridine (SS)	77.9	%	6/22/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	6/22/2020	ALS
Fluoranthene	<0.000020	mg/L	6/22/2020	ALS
Fluorene	<0.000020	mg/L	6/22/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	6/22/2020	ALS
Naphthalene	<0.000050	mg/L	6/22/2020	ALS
Phenanthrene	<0.000050	mg/L	6/22/2020	ALS
Pyrene	<0.000010	mg/L	6/22/2020	ALS
Quinoline	<0.000020	mg/L	6/22/2020	ALS

Sample No. : 303457
Sample Description : GWQ25-5N62D
Sample Date : June 4, 2020
Sample Received : June 4, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	499 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, total to pH 4.5	499 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.680 ± 16.9%	mg/L		6/11/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.147 ± 7.8%	mg/L		6/11/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.025 ± 7.5%	mg/L		6/11/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.7	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.9 ± 15%	mg/L		6/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1640 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2430 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	100 ± 6.1%	mg/L		6/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8990 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.94 ± 0.07 units	units		6/4/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	7790 ± 6.2%	mg/L		6/5/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	7350 ± 6.5%	mg/L		6/6/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	436.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	23.2 ± 13%	mg/L		6/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	23.6 ± 13%	mg/L		6/10/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.001697 ± 8.1%	mg/L	6/15/2020	COW_ASB
Barium (Ba), total in water	0.017595 ± 11.8%	mg/L	6/15/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/15/2020	COW_ASB
Boron (B), total in water	0.32530 ± 24.2%	mg/L	6/15/2020	COW_ASB
Cadmium (Cd), total in water	0.000082 ± 10.4%	mg/L	6/15/2020	COW_ASB
Calcium (Ca), total in water	903.48 ± 20.9%	mg/L	6/15/2020	COW_ASB
Chromium (Cr), total in water	0.00270 ± 12.8%	mg/L	6/15/2020	COW_ASB
Copper (Cu), total in water	0.003409 ± 12.1%	mg/L	6/15/2020	COW_ASB
Iron (Fe), total in water	0.42067 ± 9.7%	mg/L	6/15/2020	COW_ASB
Lead (Pb), total in water	0.000776 ± 8.3%	mg/L	6/15/2020	COW_ASB
Magnesium (Mg), total in water	404.71 ± 10.5%	mg/L	6/15/2020	COW_ASB
Manganese (Mn), total in water	3.1944 ± 11.2%	mg/L	6/15/2020	COW_ASB
Nickel (Ni), total in water	0.014572 ± 12.2%	mg/L	6/15/2020	COW_ASB
Phosphorus (P), total in water	0.0397	mg/L	6/15/2020	COW_ASB
Potassium (K), total in water	12.916 ± 18.3%	mg/L	6/15/2020	COW_ASB
Selenium (Se), total in water	0.00177 ± 8.0%	mg/L	6/15/2020	COW_ASB
Sodium (Na), total in water	873.03 ± 9.2%	mg/L	6/15/2020	COW_ASB
Uranium (U), total in water	0.18399 ± 10.0%	mg/L	6/15/2020	COW_ASB
Zinc (Zn), total in water	0.01546 ± 10.7%	mg/L	6/15/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	2260	mg/L	6/16/2020	COW_ASB
Total Hardness, calculated in water	3920	mg/L	6/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	12.10 ± 4.4%	NTU	6/4/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0011	mg/L	6/18/2020	ALS
Antimony (Sb), dissolved in water	0.000320	mg/L	6/18/2020	ALS
Arsenic (As), dissolved in water	0.00149	mg/L	6/18/2020	ALS
Barium (Ba), dissolved in water	0.0115	mg/L	6/18/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Boron (B), dissolved in water	0.2600	mg/L	6/18/2020	ALS
Cadmium (Cd), dissolved in water	0.000138	mg/L	6/18/2020	ALS
Calcium (Ca), dissolved in water	803.0000	mg/L	6/18/2020	ALS
Cesium (Cs), dissolved in water	0.000042	mg/L	6/18/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Cobalt (Co), dissolved in water	0.00426	mg/L	6/18/2020	ALS
Copper (Cu), dissolved in water	0.00258	mg/L	6/18/2020	ALS
Hardness dissolved in water, calculated	4068.2	mg/L	6/18/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	6/18/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/18/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.9510	mg/L	6/18/2020	ALS
Magnesium (Mg), dissolved in water	501.0000	mg/L	6/18/2020	ALS
Manganese (Mn), dissolved in water	2.0000	mg/L	6/18/2020	ALS
Molybdenum (Mo), dissolved in water	0.003650	mg/L	6/18/2020	ALS
Nickel (Ni), dissolved in water	0.01200	mg/L	6/18/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/18/2020	ALS
Potassium (K), dissolved in water	14.2000	mg/L	6/18/2020	ALS
Rubidium (Rb), dissolved in water	0.0072	mg/L	6/18/2020	ALS
Selenium (Se), dissolved in water	0.000259	mg/L	6/18/2020	ALS
Silicon (Si), dissolved in water	11.2000	mg/L	6/18/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Sodium (Na), dissolved in water	690.0000	mg/L	6/18/2020	ALS
Strontium (Sr), dissolved in water	6.1700	mg/L	6/18/2020	ALS
Sulfur (S), dissolved in water	1140.0000	mg/L	6/18/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/18/2020	ALS
Thallium (Tl), dissolved in water	0.000070	mg/L	6/18/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/18/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Uranium (U), dissolved in water	0.176000	mg/L	6/18/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/18/2020	ALS
Zinc (Zn), dissolved in water	0.0075	mg/L	6/18/2020	ALS
Zirconium (Zr), dissolved in water	0.00095	mg/L	6/18/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	6/18/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/18/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/18/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/18/2020	ALS
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Sample No. : 303458
Sample Description : GWQ25-6N63E
Sample Date : June 8, 2020
Sample Received : June 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	577 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, total to pH 4.5	577 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.526 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.105 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.027 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.4	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.5 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	890 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2110 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	49.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6470 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.88 ± 0.07 units	units		6/8/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5460 ± 6.2%	mg/L		6/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5400 ± 6.5%	mg/L		6/10/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	59.0	mg/L		6/12/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	26.7 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	27.8 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000332 ± 9.2%	mg/L		6/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.000882 ± 8.1%	mg/L	6/23/2020	COW_ASB
Barium (Ba), total in water	0.014914 ± 11.8%	mg/L	6/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/23/2020	COW_ASB
Boron (B), total in water	0.15397 ± 24.2%	mg/L	6/23/2020	COW_ASB
Cadmium (Cd), total in water	0.000074 ± 10.4%	mg/L	6/23/2020	COW_ASB
Calcium (Ca), total in water	676.75 ± 20.9%	mg/L	6/23/2020	COW_ASB
Chromium (Cr), total in water	0.00136 ± 12.8%	mg/L	6/23/2020	COW_ASB
Copper (Cu), total in water	0.002845 ± 12.1%	mg/L	6/23/2020	COW_ASB
Iron (Fe), total in water	0.66849 ± 9.7%	mg/L	6/23/2020	COW_ASB
Lead (Pb), total in water	0.000420 ± 8.3%	mg/L	6/23/2020	COW_ASB
Magnesium (Mg), total in water	261.90 ± 10.5%	mg/L	6/23/2020	COW_ASB
Manganese (Mn), total in water	2.6608 ± 11.2%	mg/L	6/23/2020	COW_ASB
Nickel (Ni), total in water	0.014124 ± 12.2%	mg/L	6/23/2020	COW_ASB
Phosphorus (P), total in water	0.0318	mg/L	6/23/2020	COW_ASB
Potassium (K), total in water	11.148 ± 18.3%	mg/L	6/23/2020	COW_ASB
Selenium (Se), total in water	0.00282 ± 8.0%	mg/L	6/23/2020	COW_ASB
Sodium (Na), total in water	584.39 ± 9.2%	mg/L	6/23/2020	COW_ASB
Uranium (U), total in water	0.10313 ± 10.0%	mg/L	6/23/2020	COW_ASB
Zinc (Zn), total in water	0.01328 ± 10.7%	mg/L	6/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1690	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	2770	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	11.30 ± 4.4%	NTU	6/8/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	0.000140	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00078	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0158	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.1550	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000139	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	647.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	0.000023	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00585	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00239	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	2587.4	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	0.0390	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.4090	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	236.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	2.5200	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.001620	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.01130	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	10.8000	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0068	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	0.000708	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	10.7000	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	481.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	4.9500	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	705.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	0.000070	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.076600	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0098	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	0.00041	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.009	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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Sample No. : 303460
Sample Description : GWQ25-6N57DR
Sample Date : June 8, 2020
Sample Received : June 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	560 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, total to pH 4.5	560 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.060 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	1.04 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.027 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	560 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2230 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	41.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6160 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.91 ± 0.07 units	units		6/8/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5140 ± 6.2%	mg/L		6/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5010 ± 6.5%	mg/L		6/10/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	133.0	mg/L		6/12/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	37.4 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	40.0 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.000550 ± 8.1%	mg/L	6/23/2020	COW_ASB
Barium (Ba), total in water	0.011543 ± 11.8%	mg/L	6/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/23/2020	COW_ASB
Boron (B), total in water	0.32052 ± 24.2%	mg/L	6/23/2020	COW_ASB
Cadmium (Cd), total in water	0.000091 ± 10.4%	mg/L	6/23/2020	COW_ASB
Calcium (Ca), total in water	703.57 ± 20.9%	mg/L	6/23/2020	COW_ASB
Chromium (Cr), total in water	0.00112 ± 12.8%	mg/L	6/23/2020	COW_ASB
Copper (Cu), total in water	0.003314 ± 12.1%	mg/L	6/23/2020	COW_ASB
Iron (Fe), total in water	0.32429 ± 9.7%	mg/L	6/23/2020	COW_ASB
Lead (Pb), total in water	0.000309 ± 8.3%	mg/L	6/23/2020	COW_ASB
Magnesium (Mg), total in water	234.60 ± 10.5%	mg/L	6/23/2020	COW_ASB
Manganese (Mn), total in water	2.3824 ± 11.2%	mg/L	6/23/2020	COW_ASB
Nickel (Ni), total in water	0.011242 ± 12.2%	mg/L	6/23/2020	COW_ASB
Phosphorus (P), total in water	0.0580	mg/L	6/23/2020	COW_ASB
Potassium (K), total in water	11.439 ± 18.3%	mg/L	6/23/2020	COW_ASB
Selenium (Se), total in water	0.00046 ± 8.0%	mg/L	6/23/2020	COW_ASB
Sodium (Na), total in water	573.52 ± 9.2%	mg/L	6/23/2020	COW_ASB
Uranium (U), total in water	0.053503 ± 10.0%	mg/L	6/23/2020	COW_ASB
Zinc (Zn), total in water	0.00981 ± 10.7%	mg/L	6/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1760	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	2720	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	6.85 ± 4.4%	NTU	6/8/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00066	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0098	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.2670	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000160	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	622.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	0.000026	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00074	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00244	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	2323.2	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	0.0160	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.5650	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	187.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	1.7200	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.001110	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.00938	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	10.7000	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0063	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	0.000183	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	8.7300	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	401.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	3.9600	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	750.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	0.000048	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.053500	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0068	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	0.00046	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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Sample No. : 303461
Sample Description : GWQ25-6N57F
Sample Date : June 8, 2020
Sample Received : June 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	512 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, total to pH 4.5	512 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.984 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.009 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.025 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	2.0	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	2.0 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1110 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1640 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	120 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6190 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.99 ± 0.07 units	units		6/8/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	6180 ± 6.2%	mg/L		6/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4640 ± 6.5%	mg/L		6/10/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	1549	mg/L		6/12/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	32.2 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	197.8 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.002525 ± 9.2%	mg/L		6/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.013799 ± 8.1%	mg/L	6/23/2020	COW_ASB
Barium (Ba), total in water	0.20387 ± 11.8%	mg/L	6/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/23/2020	COW_ASB
Boron (B), total in water	0.42818 ± 24.2%	mg/L	6/23/2020	COW_ASB
Cadmium (Cd), total in water	0.000236 ± 10.4%	mg/L	6/23/2020	COW_ASB
Calcium (Ca), total in water	863.32 ± 20.9%	mg/L	6/23/2020	COW_ASB
Chromium (Cr), total in water	0.03671 ± 12.8%	mg/L	6/23/2020	COW_ASB
Copper (Cu), total in water	0.028621 ± 12.1%	mg/L	6/23/2020	COW_ASB
Iron (Fe), total in water	27.204 ± 9.7%	mg/L	6/23/2020	COW_ASB
Lead (Pb), total in water	0.014708 ± 8.3%	mg/L	6/23/2020	COW_ASB
Magnesium (Mg), total in water	333.46 ± 10.5%	mg/L	6/23/2020	COW_ASB
Manganese (Mn), total in water	1.6608 ± 11.2%	mg/L	6/23/2020	COW_ASB
Nickel (Ni), total in water	0.052687 ± 12.2%	mg/L	6/23/2020	COW_ASB
Phosphorus (P), total in water	1.0420	mg/L	6/23/2020	COW_ASB
Potassium (K), total in water	14.480 ± 18.3%	mg/L	6/23/2020	COW_ASB
Selenium (Se), total in water	0.00228 ± 8.0%	mg/L	6/23/2020	COW_ASB
Sodium (Na), total in water	569.06 ± 9.2%	mg/L	6/23/2020	COW_ASB
Uranium (U), total in water	0.025318 ± 10.0%	mg/L	6/23/2020	COW_ASB
Zinc (Zn), total in water	0.07377 ± 10.7%	mg/L	6/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	2160	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	3530	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2648.00 ± 4.4%	NTU	6/8/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0013	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00550	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0096	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.3260	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	468.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	0.000025	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00421	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00032	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	1831.6	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	0.9690	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3990	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	161.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	0.5920	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.001380	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.00542	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	11.5000	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0053	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	10.6000	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	0.000012	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	429.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	3.5000	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	488.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	0.000026	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.024000	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0034	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0000620	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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Sample No. : 303462
Sample Description : GWQ25-6N67E
Sample Date : June 9, 2020
Sample Received : June 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	456 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, total to pH 4.5	456 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.679 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.006 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.027 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.2 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	630 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1640 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	29.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4790 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.90 ± 0.07 units	units		6/9/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	4040 ± 6.2%	mg/L		6/10/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3860 ± 6.5%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	177.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	19.8 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	19.8 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000532 ± 9.2%	mg/L		6/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.000552 ± 8.1%	mg/L	6/23/2020	COW_ASB
Barium (Ba), total in water	0.011318 ± 11.8%	mg/L	6/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/23/2020	COW_ASB
Boron (B), total in water	0.35458 ± 24.2%	mg/L	6/23/2020	COW_ASB
Cadmium (Cd), total in water	0.000059 ± 10.4%	mg/L	6/23/2020	COW_ASB
Calcium (Ca), total in water	549.88 ± 20.9%	mg/L	6/23/2020	COW_ASB
Chromium (Cr), total in water	0.00090 ± 12.8%	mg/L	6/23/2020	COW_ASB
Copper (Cu), total in water	0.002699 ± 12.1%	mg/L	6/23/2020	COW_ASB
Iron (Fe), total in water	0.13159 ± 9.7%	mg/L	6/23/2020	COW_ASB
Lead (Pb), total in water	0.000174 ± 8.3%	mg/L	6/23/2020	COW_ASB
Magnesium (Mg), total in water	199.47 ± 10.5%	mg/L	6/23/2020	COW_ASB
Manganese (Mn), total in water	1.4929 ± 11.2%	mg/L	6/23/2020	COW_ASB
Nickel (Ni), total in water	0.007847 ± 12.2%	mg/L	6/23/2020	COW_ASB
Phosphorus (P), total in water	0.0142	mg/L	6/23/2020	COW_ASB
Potassium (K), total in water	9.615 ± 18.3%	mg/L	6/23/2020	COW_ASB
Selenium (Se), total in water	0.00032 ± 8.0%	mg/L	6/23/2020	COW_ASB
Sodium (Na), total in water	307.82 ± 9.2%	mg/L	6/23/2020	COW_ASB
Uranium (U), total in water	0.029055 ± 10.0%	mg/L	6/23/2020	COW_ASB
Zinc (Zn), total in water	0.00776 ± 10.7%	mg/L	6/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1370	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	2190	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	7.43 ± 4.4%	NTU	6/9/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00081	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0125	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.2970	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000086	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	535.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	0.000022	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00246	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00223	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	1994.8	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	0.000053	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.5190	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	160.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	1.1600	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.001120	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.00685	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	9.1800	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0058	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	0.000127	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	8.3100	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	236.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	3.4400	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	473.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	0.000050	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.029600	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0047	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	0.00043	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.005	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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Sample No. : 303463
Sample Description : GWQ25-6N67F
Sample Date : June 9, 2020
Sample Received : June 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	606 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, total to pH 4.5	606 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.641 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.099 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.026 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.0	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.1 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	740 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1240 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	54.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4600 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.01 ± 0.07 units	units		6/9/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	4780 ± 6.2%	mg/L		6/10/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3360 ± 6.5%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	1420	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	6.5 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	17.9 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001419 ± 9.2%	mg/L		6/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.008300 ± 8.1%	mg/L	6/23/2020	COW_ASB
Barium (Ba), total in water	0.069758 ± 11.8%	mg/L	6/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/23/2020	COW_ASB
Boron (B), total in water	0.40768 ± 24.2%	mg/L	6/23/2020	COW_ASB
Cadmium (Cd), total in water	0.000025 ± 10.4%	mg/L	6/23/2020	COW_ASB
Calcium (Ca), total in water	549.35 ± 20.9%	mg/L	6/23/2020	COW_ASB
Chromium (Cr), total in water	0.01497 ± 12.8%	mg/L	6/23/2020	COW_ASB
Copper (Cu), total in water	0.009065 ± 12.1%	mg/L	6/23/2020	COW_ASB
Iron (Fe), total in water	10.060 ± 9.7%	mg/L	6/23/2020	COW_ASB
Lead (Pb), total in water	0.005383 ± 8.3%	mg/L	6/23/2020	COW_ASB
Magnesium (Mg), total in water	264.55 ± 10.5%	mg/L	6/23/2020	COW_ASB
Manganese (Mn), total in water	0.46655 ± 11.2%	mg/L	6/23/2020	COW_ASB
Nickel (Ni), total in water	0.015745 ± 12.2%	mg/L	6/23/2020	COW_ASB
Phosphorus (P), total in water	0.3494	mg/L	6/23/2020	COW_ASB
Potassium (K), total in water	10.684 ± 18.3%	mg/L	6/23/2020	COW_ASB
Selenium (Se), total in water	0.00057 ± 8.0%	mg/L	6/23/2020	COW_ASB
Sodium (Na), total in water	289.09 ± 9.2%	mg/L	6/23/2020	COW_ASB
Uranium (U), total in water	0.022635 ± 10.0%	mg/L	6/23/2020	COW_ASB
Zinc (Zn), total in water	0.02458 ± 10.7%	mg/L	6/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1370	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	2460	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	226.00 ± 4.4%	NTU	6/9/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00147	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0118	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.2510	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000017	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	347.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	0.000010	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00039	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00085	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	1550.0	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	0.0140	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.1720	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	166.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	0.0305	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.000831	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.00242	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	8.7200	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0042	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	8.7800	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	224.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	2.7200	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	345.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	0.000014	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.020700	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0021	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0000150	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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Sample No. : 303464
Sample Description : GWQ25-6N58DR
Sample Date : June 9, 2020
Sample Received : June 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	496 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, total to pH 4.5	496 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.375 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.515 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.031 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.0	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.5 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1010 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2140 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	62.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6620 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.77 ± 0.07 units	units		6/9/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5700 ± 6.2%	mg/L		6/10/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5290 ± 6.5%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	418.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	24.2 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	45.9 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000775 ± 9.2%	mg/L		6/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.000848 ± 8.1%	mg/L	6/23/2020	COW_ASB
Barium (Ba), total in water	0.019531 ± 11.8%	mg/L	6/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/23/2020	COW_ASB
Boron (B), total in water	0.24669 ± 24.2%	mg/L	6/23/2020	COW_ASB
Cadmium (Cd), total in water	0.000328 ± 10.4%	mg/L	6/23/2020	COW_ASB
Calcium (Ca), total in water	718.89 ± 20.9%	mg/L	6/23/2020	COW_ASB
Chromium (Cr), total in water	0.00197 ± 12.8%	mg/L	6/23/2020	COW_ASB
Copper (Cu), total in water	0.009895 ± 12.1%	mg/L	6/23/2020	COW_ASB
Iron (Fe), total in water	1.2399 ± 9.7%	mg/L	6/23/2020	COW_ASB
Lead (Pb), total in water	0.000764 ± 8.3%	mg/L	6/23/2020	COW_ASB
Magnesium (Mg), total in water	266.58 ± 10.5%	mg/L	6/23/2020	COW_ASB
Manganese (Mn), total in water	4.3538 ± 11.2%	mg/L	6/23/2020	COW_ASB
Nickel (Ni), total in water	0.016052 ± 12.2%	mg/L	6/23/2020	COW_ASB
Phosphorus (P), total in water	0.0593	mg/L	6/23/2020	COW_ASB
Potassium (K), total in water	12.071 ± 18.3%	mg/L	6/23/2020	COW_ASB
Selenium (Se), total in water	0.00022 ± 8.0%	mg/L	6/23/2020	COW_ASB
Sodium (Na), total in water	529.05 ± 9.2%	mg/L	6/23/2020	COW_ASB
Uranium (U), total in water	0.069601 ± 10.0%	mg/L	6/23/2020	COW_ASB
Zinc (Zn), total in water	0.01267 ± 10.7%	mg/L	6/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1800	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	2890	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	16.20 ± 4.4%	NTU	6/9/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0011	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00069	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0132	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.1600	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000392	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	624.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	0.000025	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00659	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00764	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	2418.8	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	0.0400	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.7630	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	209.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	3.6400	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.000720	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.01190	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	11.4000	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0053	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	0.000235	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	9.6300	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	391.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	4.1500	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	774.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	0.000067	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.066300	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0082	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	0.00037	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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Sample No. : 303465
Sample Description : GWQ25-6N58F
Sample Date : June 9, 2020
Sample Received : June 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	479 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, total to pH 4.5	479 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.20 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.082 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.021 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.6	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.7 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1340 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1220 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	65.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6120 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.16 ± 0.07 units	units		6/9/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	14100 ± 6.2%	mg/L		6/10/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4260 ± 6.5%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	9851	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	14.0 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	66.4 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000706 ± 9.2%	mg/L		6/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.003226 ± 8.1%	mg/L	6/23/2020	COW_ASB
Barium (Ba), total in water	0.057358 ± 11.8%	mg/L	6/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/23/2020	COW_ASB
Boron (B), total in water	0.37156 ± 24.2%	mg/L	6/23/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/23/2020	COW_ASB
Calcium (Ca), total in water	467.24 ± 20.9%	mg/L	6/23/2020	COW_ASB
Chromium (Cr), total in water	0.01043 ± 12.8%	mg/L	6/23/2020	COW_ASB
Copper (Cu), total in water	0.007404 ± 12.1%	mg/L	6/23/2020	COW_ASB
Iron (Fe), total in water	7.0899 ± 9.7%	mg/L	6/23/2020	COW_ASB
Lead (Pb), total in water	0.003614 ± 8.3%	mg/L	6/23/2020	COW_ASB
Magnesium (Mg), total in water	323.40 ± 10.5%	mg/L	6/23/2020	COW_ASB
Manganese (Mn), total in water	0.28018 ± 11.2%	mg/L	6/23/2020	COW_ASB
Nickel (Ni), total in water	0.011284 ± 12.2%	mg/L	6/23/2020	COW_ASB
Phosphorus (P), total in water	0.2308	mg/L	6/23/2020	COW_ASB
Potassium (K), total in water	13.222 ± 18.3%	mg/L	6/23/2020	COW_ASB
Selenium (Se), total in water	0.00064 ± 8.0%	mg/L	6/23/2020	COW_ASB
Sodium (Na), total in water	535.23 ± 9.2%	mg/L	6/23/2020	COW_ASB
Uranium (U), total in water	0.012838 ± 10.0%	mg/L	6/23/2020	COW_ASB
Zinc (Zn), total in water	0.02141 ± 10.7%	mg/L	6/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1170	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	2500	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	402.00 ± 4.4%	NTU	6/9/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0019	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00198	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0138	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.2570	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	331.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	0.000019	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00090	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	1790.1	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	0.3080	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.2870	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	234.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	0.0750	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.002310	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.00216	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	11.5000	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0036	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	7.5100	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	416.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	3.2400	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	357.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	0.00021	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.013300	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0000760	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.009	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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Sample No. : 303466
Sample Description : GWQ25-6N59DR
Sample Date : June 9, 2020
Sample Received : June 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	496 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, total to pH 4.5	496 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.047 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	1.26 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.025 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.3	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.6 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	880 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2130 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	52.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6240 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.80 ± 0.07 units	units		6/9/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5390 ± 6.2%	mg/L		6/10/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5000 ± 6.5%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	393.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	16.0 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	32.4 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000054 ± 9.2%	mg/L		6/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.000633 ± 8.1%	mg/L	6/23/2020	COW_ASB
Barium (Ba), total in water	0.012896 ± 11.8%	mg/L	6/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/23/2020	COW_ASB
Boron (B), total in water	0.34328 ± 24.2%	mg/L	6/23/2020	COW_ASB
Cadmium (Cd), total in water	0.000341 ± 10.4%	mg/L	6/23/2020	COW_ASB
Calcium (Ca), total in water	696.42 ± 20.9%	mg/L	6/23/2020	COW_ASB
Chromium (Cr), total in water	0.00169 ± 12.8%	mg/L	6/23/2020	COW_ASB
Copper (Cu), total in water	0.008913 ± 12.1%	mg/L	6/23/2020	COW_ASB
Iron (Fe), total in water	0.74864 ± 9.7%	mg/L	6/23/2020	COW_ASB
Lead (Pb), total in water	0.000713 ± 8.3%	mg/L	6/23/2020	COW_ASB
Magnesium (Mg), total in water	238.45 ± 10.5%	mg/L	6/23/2020	COW_ASB
Manganese (Mn), total in water	2.6452 ± 11.2%	mg/L	6/23/2020	COW_ASB
Nickel (Ni), total in water	0.010648 ± 12.2%	mg/L	6/23/2020	COW_ASB
Phosphorus (P), total in water	0.0498	mg/L	6/23/2020	COW_ASB
Potassium (K), total in water	11.226 ± 18.3%	mg/L	6/23/2020	COW_ASB
Selenium (Se), total in water	0.00053 ± 8.0%	mg/L	6/23/2020	COW_ASB
Sodium (Na), total in water	459.83 ± 9.2%	mg/L	6/23/2020	COW_ASB
Uranium (U), total in water	0.043215 ± 10.0%	mg/L	6/23/2020	COW_ASB
Zinc (Zn), total in water	0.01102 ± 10.7%	mg/L	6/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1740	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	2720	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	18.10 ± 4.4%	NTU	6/9/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	0.000160	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00056	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0118	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.3340	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000375	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	596.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	0.000019	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00609	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00524	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	2233.6	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	0.000075	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.5970	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	181.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	2.1700	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.000653	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.00807	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	10.9000	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0058	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	0.000156	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	8.4700	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	367.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	4.4200	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	651.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	0.00028	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	0.000050	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.039600	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0069	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	0.00038	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.008	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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Sample No. : 303467
Sample Description : GWQ25-6N59F
Sample Date : June 9, 2020
Sample Received : June 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	530 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, total to pH 4.5	530 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.092 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.826 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.026 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.2 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	980 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1840 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	51.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6280 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.83 ± 0.07 units	units		6/9/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	6560 ± 6.2%	mg/L		6/10/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4820 ± 6.5%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	1747	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	17.8 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	42.9 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001941 ± 9.2%	mg/L		6/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.001702 ± 8.1%	mg/L	6/23/2020	COW_ASB
Barium (Ba), total in water	0.030736 ± 11.8%	mg/L	6/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/23/2020	COW_ASB
Boron (B), total in water	0.39943 ± 24.2%	mg/L	6/23/2020	COW_ASB
Cadmium (Cd), total in water	0.000133 ± 10.4%	mg/L	6/23/2020	COW_ASB
Calcium (Ca), total in water	650.88 ± 20.9%	mg/L	6/23/2020	COW_ASB
Chromium (Cr), total in water	0.00620 ± 12.8%	mg/L	6/23/2020	COW_ASB
Copper (Cu), total in water	0.005843 ± 12.1%	mg/L	6/23/2020	COW_ASB
Iron (Fe), total in water	4.2052 ± 9.7%	mg/L	6/23/2020	COW_ASB
Lead (Pb), total in water	0.002087 ± 8.3%	mg/L	6/23/2020	COW_ASB
Magnesium (Mg), total in water	217.91 ± 10.5%	mg/L	6/23/2020	COW_ASB
Manganese (Mn), total in water	1.8301 ± 11.2%	mg/L	6/23/2020	COW_ASB
Nickel (Ni), total in water	0.015441 ± 12.2%	mg/L	6/23/2020	COW_ASB
Phosphorus (P), total in water	0.1235	mg/L	6/23/2020	COW_ASB
Potassium (K), total in water	11.509 ± 18.3%	mg/L	6/23/2020	COW_ASB
Selenium (Se), total in water	0.00053 ± 8.0%	mg/L	6/23/2020	COW_ASB
Sodium (Na), total in water	565.42 ± 9.2%	mg/L	6/23/2020	COW_ASB
Uranium (U), total in water	0.041118 ± 10.0%	mg/L	6/23/2020	COW_ASB
Zinc (Zn), total in water	0.01943 ± 10.7%	mg/L	6/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1630	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	2520	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	92.90 ± 4.4%	NTU	6/9/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0010	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	0.000100	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00056	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0107	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.2470	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000103	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	580.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	0.000021	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00713	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00211	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	2230.7	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	0.0590	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.5030	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	190.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	1.7700	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.002330	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.00915	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	10.0000	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0063	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	0.000071	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	10.6000	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	481.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	4.1200	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	597.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	0.000053	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.040400	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0097	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	0.00031	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0000550	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.011	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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Sample No. : 303468
Sample Description : GWQ25-4N34B
Sample Date : June 8, 2020
Sample Received : June 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	663 ± 2.8%	mg/L		6/13/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/13/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/13/2020	COW_ASB
Alkalinity, total to pH 4.5	663 ± 2.8%	mg/L		6/13/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/13/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.005 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.064 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.027 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.9	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.9 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1800 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2360 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	46.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	7160 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.03 ± 0.07 units	units		6/8/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	6790 ± 6.2%	mg/L		6/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	6560 ± 6.5%	mg/L		6/10/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	226.0	mg/L		6/12/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	25.4 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	37.8 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.001353 ± 8.1%	mg/L	6/23/2020	COW_ASB
Barium (Ba), total in water	0.025032 ± 11.8%	mg/L	6/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/23/2020	COW_ASB
Boron (B), total in water	0.15740 ± 24.2%	mg/L	6/23/2020	COW_ASB
Cadmium (Cd), total in water	0.000062 ± 10.4%	mg/L	6/23/2020	COW_ASB
Calcium (Ca), total in water	687.15 ± 20.9%	mg/L	6/23/2020	COW_ASB
Chromium (Cr), total in water	0.00302 ± 12.8%	mg/L	6/23/2020	COW_ASB
Copper (Cu), total in water	0.005429 ± 12.1%	mg/L	6/23/2020	COW_ASB
Iron (Fe), total in water	1.9297 ± 9.7%	mg/L	6/23/2020	COW_ASB
Lead (Pb), total in water	0.001302 ± 8.3%	mg/L	6/23/2020	COW_ASB
Magnesium (Mg), total in water	563.63 ± 10.5%	mg/L	6/23/2020	COW_ASB
Manganese (Mn), total in water	0.19468 ± 11.2%	mg/L	6/23/2020	COW_ASB
Nickel (Ni), total in water	0.016093 ± 12.2%	mg/L	6/23/2020	COW_ASB
Phosphorus (P), total in water	0.0751	mg/L	6/23/2020	COW_ASB
Potassium (K), total in water	11.268 ± 18.3%	mg/L	6/23/2020	COW_ASB
Selenium (Se), total in water	0.00166 ± 8.0%	mg/L	6/23/2020	COW_ASB
Sodium (Na), total in water	483.04 ± 9.2%	mg/L	6/23/2020	COW_ASB
Uranium (U), total in water	0.25325 ± 10.0%	mg/L	6/23/2020	COW_ASB
Zinc (Zn), total in water	0.00914 ± 10.7%	mg/L	6/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1720	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	4040	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	31.40 ± 4.4%	NTU	6/8/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0012	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	0.000130	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00093	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0110	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.1270	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000058	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	565.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00017	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00229	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	3161.0	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.5020	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	425.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	0.0339	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.001380	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.01100	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	10.2000	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0016	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	0.000808	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	8.5500	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	0.000013	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	344.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	4.5800	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	815.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	0.00011	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.215000	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0024	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	0.00067	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0000050	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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Sample No. : 303469
Sample Description : GWQ25-4N34C
Sample Date : June 8, 2020
Sample Received : June 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	631 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, total to pH 4.5	631 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.537 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.237 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.028 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	2.7	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	2.9 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1000 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1870 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	360 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	5850 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.90 ± 0.07 units	units		6/8/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	11000 ± 6.2%	mg/L		6/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4450 ± 6.5%	mg/L		6/10/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	6574	mg/L		6/12/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	64.2 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	82.4 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/18/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.036040 ± 8.1%	mg/L	6/18/2020	COW_ASB
Barium (Ba), total in water	0.30956 ± 11.8%	mg/L	6/18/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/18/2020	COW_ASB
Boron (B), total in water	0.25964 ± 24.2%	mg/L	6/18/2020	COW_ASB
Cadmium (Cd), total in water	0.000986 ± 10.4%	mg/L	6/18/2020	COW_ASB
Calcium (Ca), total in water	760.89 ± 20.9%	mg/L	6/18/2020	COW_ASB
Chromium (Cr), total in water	0.09858 ± 12.8%	mg/L	6/18/2020	COW_ASB
Copper (Cu), total in water	0.10422 ± 12.1%	mg/L	6/18/2020	COW_ASB
Iron (Fe), total in water	82.089 ± 9.7%	mg/L	6/18/2020	COW_ASB
Lead (Pb), total in water	0.042436 ± 8.3%	mg/L	6/18/2020	COW_ASB
Magnesium (Mg), total in water	310.80 ± 10.5%	mg/L	6/18/2020	COW_ASB
Manganese (Mn), total in water	3.5629 ± 11.2%	mg/L	6/18/2020	COW_ASB
Nickel (Ni), total in water	0.14863 ± 12.2%	mg/L	6/18/2020	COW_ASB
Phosphorus (P), total in water	1.8989	mg/L	6/18/2020	COW_ASB
Potassium (K), total in water	19.422 ± 18.3%	mg/L	6/18/2020	COW_ASB
Selenium (Se), total in water	0.00587 ± 8.0%	mg/L	6/18/2020	COW_ASB
Sodium (Na), total in water	405.68 ± 9.2%	mg/L	6/18/2020	COW_ASB
Uranium (U), total in water	0.083410 ± 10.0%	mg/L	6/18/2020	COW_ASB
Zinc (Zn), total in water	0.28530 ± 10.7%	mg/L	6/18/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1900	mg/L	6/22/2020	COW_ASB
Total Hardness, calculated in water	3180	mg/L	6/22/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2219.00 ± 4.4%	NTU	6/8/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	0.000290	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00090	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0092	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.2760	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000031	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	411.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	0.000019	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00297	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00228	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	2294.6	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.0200	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	308.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	0.6620	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.006490	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.00618	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	8.8900	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0050	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	0.001120	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	8.0700	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	388.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	3.1600	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	136.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	0.000044	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.158000	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0047	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	0.00050	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0004600	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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Sample No. : 303470
Sample Description : GWQ25-102
Sample Date : June 8, 2020
Sample Received : June 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	533 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, total to pH 4.5	533 ± 2.8%	mg/L		6/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/9/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.545 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.278 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.023 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	3.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	3.5 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	860 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1810 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	435 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	5710 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.94 ± 0.07 units	units		6/8/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	10500 ± 6.2%	mg/L		6/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4460 ± 6.5%	mg/L		6/10/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	6006	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	17.7 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	62.5 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/18/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.020798 ± 8.1%	mg/L	6/18/2020	COW_ASB
Barium (Ba), total in water	0.20175 ± 11.8%	mg/L	6/18/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/18/2020	COW_ASB
Boron (B), total in water	0.22815 ± 24.2%	mg/L	6/18/2020	COW_ASB
Cadmium (Cd), total in water	0.000366 ± 10.4%	mg/L	6/18/2020	COW_ASB
Calcium (Ca), total in water	684.56 ± 20.9%	mg/L	6/18/2020	COW_ASB
Chromium (Cr), total in water	0.06306 ± 12.8%	mg/L	6/18/2020	COW_ASB
Copper (Cu), total in water	0.076227 ± 12.1%	mg/L	6/18/2020	COW_ASB
Iron (Fe), total in water	48.684 ± 9.7%	mg/L	6/18/2020	COW_ASB
Lead (Pb), total in water	0.026778 ± 8.3%	mg/L	6/18/2020	COW_ASB
Magnesium (Mg), total in water	284.35 ± 10.5%	mg/L	6/18/2020	COW_ASB
Manganese (Mn), total in water	2.8666 ± 11.2%	mg/L	6/18/2020	COW_ASB
Nickel (Ni), total in water	0.092900 ± 12.2%	mg/L	6/18/2020	COW_ASB
Phosphorus (P), total in water	1.0635	mg/L	6/18/2020	COW_ASB
Potassium (K), total in water	16.112 ± 18.3%	mg/L	6/18/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	6/18/2020	COW_ASB
Sodium (Na), total in water	415.49 ± 9.2%	mg/L	6/18/2020	COW_ASB
Uranium (U), total in water	0.086693 ± 10.0%	mg/L	6/18/2020	COW_ASB
Zinc (Zn), total in water	0.17280 ± 10.7%	mg/L	6/18/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1710	mg/L	6/22/2020	COW_ASB
Total Hardness, calculated in water	2880	mg/L	6/22/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	4039.00 ± 4.4%	NTU	6/8/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	0.000340	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	0.00119	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	0.0100	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	0.2870	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	0.000026	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	395.0000	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	0.000022	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	0.00260	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00247	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	2102.3	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	0.0120	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3620	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	271.0000	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	0.6280	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.006120	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	0.00602	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	8.5200	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0051	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	0.001020	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	7.5500	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	0.000013	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	340.0000	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	2.9500	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	470.0000	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	0.000045	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	0.161000	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	0.0053	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	0.00050	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0004700	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.006	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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Sample No. : 303471
Sample Description : GWQ25-Trip Blank
Sample Date : June 9, 2020
Sample Received : June 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	1.9 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, total to pH 4.5	1.9 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.003 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.014 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	0.4 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1.8 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	5.55 ± 0.07 units	units		6/9/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	<3 ± 6.2%	mg/L		6/10/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	<3 ± 6.5%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	<3.0	mg/L		6/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	0.8 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	14.6 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000948 ± 9.2%	mg/L		6/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L	6/23/2020	COW_ASB
Barium (Ba), total in water	0.000381 ± 11.8%	mg/L	6/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/23/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L	6/23/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/23/2020	COW_ASB
Calcium (Ca), total in water	0.072 ± 20.9%	mg/L	6/23/2020	COW_ASB
Chromium (Cr), total in water	0.00062 ± 12.8%	mg/L	6/23/2020	COW_ASB
Copper (Cu), total in water	0.000738 ± 12.1%	mg/L	6/23/2020	COW_ASB
Iron (Fe), total in water	0.01149 ± 9.7%	mg/L	6/23/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	6/23/2020	COW_ASB
Magnesium (Mg), total in water	0.005 ± 10.5%	mg/L	6/23/2020	COW_ASB
Manganese (Mn), total in water	0.00011 ± 11.2%	mg/L	6/23/2020	COW_ASB
Nickel (Ni), total in water	<0.000021 ± 12.2%	mg/L	6/23/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	6/23/2020	COW_ASB
Potassium (K), total in water	0.011 ± 18.3%	mg/L	6/23/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	6/23/2020	COW_ASB
Sodium (Na), total in water	0.109 ± 9.2%	mg/L	6/23/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	6/23/2020	COW_ASB
Zinc (Zn), total in water	0.00448 ± 10.7%	mg/L	6/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	<0.4	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	<0.4	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.26 ± 4.4%	NTU	6/9/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/22/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/22/2020	ALS
Arsenic (As), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Barium (Ba), dissolved in water	<0.0001	mg/L	6/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Boron (B), dissolved in water	<0.0100	mg/L	6/22/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/22/2020	ALS
Calcium (Ca), dissolved in water	0.1620	mg/L	6/22/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Cobalt (Co), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Copper (Cu), dissolved in water	0.00022	mg/L	6/22/2020	ALS
Hardness dissolved in water, calculated	<0.4	mg/L	6/22/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	6/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/22/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	<0.0010	mg/L	6/22/2020	ALS
Magnesium (Mg), dissolved in water	<0.0050	mg/L	6/22/2020	ALS
Manganese (Mn), dissolved in water	<0.0001	mg/L	6/22/2020	ALS
Molybdenum (Mo), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Nickel (Ni), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/22/2020	ALS
Potassium (K), dissolved in water	<0.0500	mg/L	6/22/2020	ALS
Rubidium (Rb), dissolved in water	<0.0002	mg/L	6/22/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/22/2020	ALS
Silicon (Si), dissolved in water	0.1490	mg/L	6/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Sodium (Na), dissolved in water	<0.0500	mg/L	6/22/2020	ALS
Strontium (Sr), dissolved in water	0.0024	mg/L	6/22/2020	ALS
Sulfur (S), dissolved in water	0.6200	mg/L	6/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/22/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/22/2020	ALS
Uranium (U), dissolved in water	<0.000010	mg/L	6/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/22/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	6/22/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	6/22/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.019	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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Sample No. : 303472
Sample Description : GWQ25-Field Blank
Sample Date : June 4, 2020
Sample Received : June 4, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, total to pH 4.5	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/5/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.048 ± 16.9%	mg/L		6/11/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/11/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.017 ± 7.5%	mg/L		6/11/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		6/13/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		6/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		6/7/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	0.5 ± 10%	mg/L		6/6/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1.8 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	5.70 ± 0.07 units	units		6/4/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	6 ± 6.2%	mg/L		6/5/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	58 ± 6.5%	mg/L		6/6/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	<3.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.2 ± 13%	mg/L		6/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.5 ± 13%	mg/L		6/10/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		6/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L	6/15/2020	COW_ASB
Barium (Ba), total in water	0.000060 ± 11.8%	mg/L	6/15/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/15/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L	6/15/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	6/15/2020	COW_ASB
Calcium (Ca), total in water	0.044 ± 20.9%	mg/L	6/15/2020	COW_ASB
Chromium (Cr), total in water	0.00071 ± 12.8%	mg/L	6/15/2020	COW_ASB
Copper (Cu), total in water	0.000635 ± 12.1%	mg/L	6/15/2020	COW_ASB
Iron (Fe), total in water	0.00598 ± 9.7%	mg/L	6/15/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	6/15/2020	COW_ASB
Magnesium (Mg), total in water	0.008 ± 10.5%	mg/L	6/15/2020	COW_ASB
Manganese (Mn), total in water	0.00022 ± 11.2%	mg/L	6/15/2020	COW_ASB
Nickel (Ni), total in water	<0.000021 ± 12.2%	mg/L	6/15/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	6/15/2020	COW_ASB
Potassium (K), total in water	0.008 ± 18.3%	mg/L	6/15/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	6/15/2020	COW_ASB
Sodium (Na), total in water	0.180 ± 9.2%	mg/L	6/15/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	6/15/2020	COW_ASB
Zinc (Zn), total in water	0.00651 ± 10.7%	mg/L	6/15/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	<0.4	mg/L	6/16/2020	COW_ASB
Total Hardness, calculated in water	<0.4	mg/L	6/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.82 ± 4.4%	NTU	6/4/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	6/18/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/18/2020	ALS
Arsenic (As), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Barium (Ba), dissolved in water	0.0002	mg/L	6/18/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Boron (B), dissolved in water	<0.0100	mg/L	6/18/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	6/18/2020	ALS
Calcium (Ca), dissolved in water	0.0580	mg/L	6/18/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Cobalt (Co), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Copper (Cu), dissolved in water	0.00084	mg/L	6/18/2020	ALS
Hardness dissolved in water, calculated	0.4	mg/L	6/18/2020	ALS
Iron (Fe), dissolved in water	0.0160	mg/L	6/18/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/18/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.0030	mg/L	6/18/2020	ALS
Magnesium (Mg), dissolved in water	0.0575	mg/L	6/18/2020	ALS
Manganese (Mn), dissolved in water	0.0003	mg/L	6/18/2020	ALS
Molybdenum (Mo), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Nickel (Ni), dissolved in water	<0.00050	mg/L	6/18/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/18/2020	ALS
Potassium (K), dissolved in water	<0.0500	mg/L	6/18/2020	ALS
Rubidium (Rb), dissolved in water	<0.0002	mg/L	6/18/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	6/18/2020	ALS
Silicon (Si), dissolved in water	0.2020	mg/L	6/18/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Sodium (Na), dissolved in water	0.6360	mg/L	6/18/2020	ALS
Strontium (Sr), dissolved in water	0.0005	mg/L	6/18/2020	ALS
Sulfur (S), dissolved in water	<0.5000	mg/L	6/18/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/18/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Tin (Sn), dissolved in water	0.00322	mg/L	6/18/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	6/18/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/18/2020	ALS
Uranium (U), dissolved in water	<0.000010	mg/L	6/18/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/18/2020	ALS
Zinc (Zn), dissolved in water	0.0016	mg/L	6/18/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/18/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	6/18/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/18/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/18/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/18/2020	ALS
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Sample No. : 308862
Sample Description : GWQ25-6N63F
Sample Date : June 10, 2020
Sample Received : June 10, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	467 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, total to pH 4.5	467 ± 2.8%	mg/L		6/10/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/10/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.932 ± 16.9%	mg/L		6/12/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.019 ± 7.8%	mg/L		6/12/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.052 ± 7.5%	mg/L		6/12/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.3	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.3 ± 15%	mg/L		7/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1550 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1290 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	74.0 ± 6.1%	mg/L		6/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6790 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.99 ± 0.07 units	units		6/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	6870 ± 6.2%	mg/L		6/11/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4570 ± 6.5%	mg/L		6/14/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	2306	mg/L		6/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	43.4 ± 13%	mg/L		7/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	80.4 ± 13%	mg/L		7/9/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001850 ± 9.2%	mg/L		6/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.011472 ± 8.1%	mg/L	6/23/2020	COW_ASB
Barium (Ba), total in water	0.090154 ± 11.8%	mg/L	6/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	6/23/2020	COW_ASB
Boron (B), total in water	0.38943 ± 24.2%	mg/L	6/23/2020	COW_ASB
Cadmium (Cd), total in water	0.000061 ± 10.4%	mg/L	6/23/2020	COW_ASB
Calcium (Ca), total in water	772.07 ± 20.9%	mg/L	6/23/2020	COW_ASB
Chromium (Cr), total in water	0.01643 ± 12.8%	mg/L	6/23/2020	COW_ASB
Copper (Cu), total in water	0.012194 ± 12.1%	mg/L	6/23/2020	COW_ASB
Iron (Fe), total in water	13.452 ± 9.7%	mg/L	6/23/2020	COW_ASB
Lead (Pb), total in water	0.006447 ± 8.3%	mg/L	6/23/2020	COW_ASB
Magnesium (Mg), total in water	392.59 ± 10.5%	mg/L	6/23/2020	COW_ASB
Manganese (Mn), total in water	0.64823 ± 11.2%	mg/L	6/23/2020	COW_ASB
Nickel (Ni), total in water	0.019969 ± 12.2%	mg/L	6/23/2020	COW_ASB
Phosphorus (P), total in water	0.5749	mg/L	6/23/2020	COW_ASB
Potassium (K), total in water	13.024 ± 18.3%	mg/L	6/23/2020	COW_ASB
Selenium (Se), total in water	0.00199 ± 8.0%	mg/L	6/23/2020	COW_ASB
Sodium (Na), total in water	537.74 ± 9.2%	mg/L	6/23/2020	COW_ASB
Uranium (U), total in water	0.013779 ± 10.0%	mg/L	6/23/2020	COW_ASB
Zinc (Zn), total in water	0.03169 ± 10.7%	mg/L	6/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1930	mg/L	6/25/2020	COW_ASB
Total Hardness, calculated in water	3540	mg/L	6/25/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	871.00 ± 4.4%	NTU	6/10/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0274	mg/L	6/25/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	6/25/2020	ALS
Arsenic (As), dissolved in water	0.00067	mg/L	6/25/2020	ALS
Barium (Ba), dissolved in water	0.0109	mg/L	6/25/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	6/25/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	6/25/2020	ALS
Boron (B), dissolved in water	0.4350	mg/L	6/25/2020	ALS
Cadmium (Cd), dissolved in water	0.000020	mg/L	6/25/2020	ALS
Calcium (Ca), dissolved in water	441.0000	mg/L	6/25/2020	ALS
Cesium (Cs), dissolved in water	0.000020	mg/L	6/25/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	6/25/2020	ALS
Cobalt (Co), dissolved in water	0.00163	mg/L	6/25/2020	ALS
Copper (Cu), dissolved in water	0.00052	mg/L	6/25/2020	ALS
Hardness dissolved in water, calculated	2225.4	mg/L	6/25/2020	ALS
Iron (Fe), dissolved in water	0.2730	mg/L	6/25/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	6/25/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3330	mg/L	6/25/2020	ALS
Magnesium (Mg), dissolved in water	273.0000	mg/L	6/25/2020	ALS
Manganese (Mn), dissolved in water	0.2060	mg/L	6/25/2020	ALS
Molybdenum (Mo), dissolved in water	0.001030	mg/L	6/25/2020	ALS
Nickel (Ni), dissolved in water	0.00318	mg/L	6/25/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	6/25/2020	ALS
Potassium (K), dissolved in water	12.1000	mg/L	6/25/2020	ALS
Rubidium (Rb), dissolved in water	0.0048	mg/L	6/25/2020	ALS
Selenium (Se), dissolved in water	0.000133	mg/L	6/25/2020	ALS
Silicon (Si), dissolved in water	11.1000	mg/L	6/25/2020	ALS
Silver (Ag), dissolved in water	0.000013	mg/L	6/25/2020	ALS
Sodium (Na), dissolved in water	465.0000	mg/L	6/25/2020	ALS
Strontium (Sr), dissolved in water	4.1800	mg/L	6/25/2020	ALS
Sulfur (S), dissolved in water	374.0000	mg/L	6/25/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	6/25/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	6/25/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	6/25/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	6/25/2020	ALS
Titanium (Ti), dissolved in water	0.00150	mg/L	6/25/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	6/25/2020	ALS
Uranium (U), dissolved in water	0.013300	mg/L	6/25/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	6/25/2020	ALS
Zinc (Zn), dissolved in water	0.0015	mg/L	6/25/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	6/25/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0000200	mg/L	6/25/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	6/25/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	6/25/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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Reference Information

The Analytical Services Branch is accredited by CALA in accordance with ISO 17025 standards for specific tests.

Glossary of Terms :

ANXHT : Analyzed past holding time

Accredited Test Methods Used :**Test Method**

Alkalinity by Titration
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis
COD by Closed Reflux Method

Reference Method

Modified from SM 2320 B. Titration Method
Modified from SM 4500-NH3 H. NO3 I & P G. Flow Injection Analysis
Modified from SM 5220 D. Closed Reflux, Colorimetric Method

Accredited Test Methods Used :

Test Method

Conductivity by Electrometric Method
 Dissolved Organic Carbon by High Temperature Combustion
 Dissolved Solids by Gravimetric Analysis
 Hardness, Calcium & Total by Calculation
 Metals Total in Water by ICP-MS
 pH in Laboratory by Electrometric Method
 Total Kjeldahl Nitrogen Calculated

 Total Nitrogen by High Temperature Combustion
 Total Organic Carbon by High Temperature Combustion
 Total Solids by Gravimetric Analysis
 Total Suspended Solids by Gravimetric Analysis
 Turbidity in Laboratory by Nephelometric Method

Reference Method

Modified from SM 2510 B. Laboratory Measurement
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 C. Total Dissolved Solids Dried at 180°C
 Modified from EPA Methods 200.8
 Modified from EPA Methods 200.8
 Modified from SM 4500 H+B (Electrometric Method)
 Modified from SM 5310 B. High Temperature Combustion and SM 4500-NO3 I. Flow Injection Analysis
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 B. Total Solids Dried at 103-105°C
 Modified from SM 2540 D. Total Suspended Solids Dried at 103-105°C
 Modified from SM 2130 A. Turbidity & 2130 B. Nephelometric Method

Additional Test Methods Used :

Test Method

Chloride by Mercuric Thiocyanate Method
 Sulfate by HACH Method

Reference Method

Modified from SM 4500Cl-G Mercuric Thiocyanate & HACH Method 8113
 Modified from HACH Method 8051, SulfaVer 4, & SM 4500-SO4-2 E. Turbidimetric

Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4
 COW_ASB : City of Winnipeg Main Laboratory at NEWPCC, 2230 Main Street, Winnipeg, MB R2V 4T8

Additional Comments :

- 1) A quality control report can be provided upon request. These reports may contain quality control results from other samples not included in this test report.
- 2) Analytical Services Branch test methods may incorporate modifications from specified reference methods to improve performance.
- 3) For subcontracted testing, the certificate of analysis can be provided upon request.
- 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

----- **END OF REPORT** -----

Report To :

Mr. Chris KozakSolid Waste Services Division
1120 Waverley Street
Winnipeg MB R3E 3S8

Report Date : October 26, 2020

Phone : 204-986-2384

Email : ckozak@winnipeg.ca

Certificate of Analysis Job No. 533

Date Authorised : October 26, 2020

Total Number of Pages : 122

This report is issued under the authority of :

Brock Bradford

Analytical Services Branch Head

This report shall not be reproduced except in full without the written approval of the laboratory.

The results relate only to the sample(s) as received by the laboratory.

Additional information regarding the test methods used by Analytical Services Branch or contract laboratory is available upon request.

Sample No. : 308498
Sample Description : GWQ18-IN232
Sample Date : June 11, 2020
Sample Received : June 11, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	432 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, total to pH 4.5	432 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.141 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.006 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.4 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	770 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	738 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	22.0 ± 6.1%	mg/L		6/18/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4210 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.18 ± 0.07 units	units		6/11/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	2680 ± 6.5%	mg/L		6/13/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3250 ± 6.2%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	571.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	4.5 ± 13%	mg/L		7/13/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	13.8 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	<0.0002 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	0.5201 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	258.3 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00017 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	0.00044 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	<0.0016 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	213.4 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.05800 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00104 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	23.83 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	470.7 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0060 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	2.6677 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.002749 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.001135 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.035407 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.46535 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	268.32 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00680 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.006329 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	3.6201 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.001993 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	191.38 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.24227 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.006385 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.1340	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	21.327 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00137 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	392.68 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.006922 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.01322 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	670	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	1460	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	226.00 ± 4.4%	NTU	6/11/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	775.000	mg/L	6/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	668.00	mg/L	6/22/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/22/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/22/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/22/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/22/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/22/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.7	%	6/22/2020	ALS
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Acetone	<0.050	mg/L	6/22/2020	ALS
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Benzene	<0.00050	mg/L	6/22/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/22/2020	ALS
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Bromoform	<0.0010	mg/L	6/22/2020	ALS
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Bromomethane	<0.001	mg/L	6/22/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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Chloroethane	<0.001	mg/L	6/22/2020	ALS
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Chloroform	<0.00050	mg/L	6/22/2020	ALS
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Chloromethane	<0.005	mg/L	6/22/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/22/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/22/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/22/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/22/2020	ALS
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Methytertbutylether [MTBE]	<0.0005	mg/L	6/22/2020	ALS
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o-Xylene	<0.0005	mg/L	6/22/2020	ALS
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Styrene	<0.0010	mg/L	6/22/2020	ALS
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Toluene	<0.00050	mg/L	6/22/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/22/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/22/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	<0.001	mg/L	6/22/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/22/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	98.800	%	6/22/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/22/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/22/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/22/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/22/2020	ALS

Sample No. : 308499
Sample Description : GWQ18-W4
Sample Date : June 18, 2020
Sample Received : June 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	104 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, total to pH 4.5	104 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.124 ± 16.9%	mg/L		6/25/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.009 ± 7.8%	mg/L		6/25/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/25/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/16/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	46.2 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	32.0 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	28.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1770 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.26 ± 0.07 units	units		6/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	964 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1110 ± 6.2%	mg/L		6/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	150.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.8 ± 13%	mg/L		7/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	2.4 ± 13%	mg/L		7/16/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/30/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/30/2020	COW_ASB
Arsenic (As), soluble in water	0.0004 ± 8.1%	mg/L	6/30/2020	COW_ASB
Boron (B), soluble in water	0.2664 ± 24.2%	mg/L	6/30/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/30/2020	COW_ASB
Calcium (Ca), soluble in water	40.41 ± 20.9%	mg/L	6/30/2020	COW_ASB
Chromium (Cr), soluble in water	0.00007 ± 12.8%	mg/L	6/30/2020	COW_ASB
Copper (Cu), Soluble in water	0.00029 ± 12.1%	mg/L	6/30/2020	COW_ASB
Iron (Fe), soluble in water	0.0110 ± 9.7%	mg/L	6/30/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/30/2020	COW_ASB
Magnesium (Mg), soluble in water	45.39 ± 10.5%	mg/L	6/30/2020	COW_ASB
Manganese (Mn), soluble in water	0.06673 ± 11.2%	mg/L	6/30/2020	COW_ASB
Nickel (Ni), soluble in water	0.01139 ± 12.2%	mg/L	6/30/2020	COW_ASB
Potassium (K), soluble in water	17.64 ± 18.3%	mg/L	6/30/2020	COW_ASB
Sodium (Na), soluble in water	266.1 ± 9.2%	mg/L	6/30/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	6/30/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	6/30/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.05916 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.006413 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.013500 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.004384 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.23786 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	0.000009 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	25.196 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.01104 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.098397 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	50.757 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.000753 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	39.001 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.46723 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.059730 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.0079	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	14.195 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00021 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	221.67 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.000172 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.01852 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	62.9	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	224	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	149.00 ± 4.4%	NTU	6/18/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	461.000	mg/L	6/30/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	52.00	mg/L	6/30/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/30/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/30/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/30/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/30/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/30/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.3	%	6/30/2020	ALS
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Acetone	<0.050	mg/L	6/30/2020	ALS
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Benzene	<0.00050	mg/L	6/30/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/30/2020	ALS
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Bromoform	<0.0010	mg/L	6/30/2020	ALS
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Bromomethane	<0.001	mg/L	6/30/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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Chloroethane	<0.001	mg/L	6/30/2020	ALS
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Chloroform	<0.00050	mg/L	6/30/2020	ALS
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Chloromethane	<0.005	mg/L	6/30/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/30/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/30/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/30/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/30/2020	ALS
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Methytertbutylether [MTBE]	<0.0005	mg/L	6/30/2020	ALS
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o-Xylene	<0.0005	mg/L	6/30/2020	ALS
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Styrene	<0.0010	mg/L	6/30/2020	ALS
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Toluene	<0.00050	mg/L	6/30/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/30/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/30/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/30/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.003	mg/L	6/30/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/30/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/30/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/30/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/30/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	107.900	%	6/30/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/30/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/30/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/30/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/30/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/30/2020	ALS

Sample No. : 308500
Sample Description : GWQ18-W5
Sample Date : June 15, 2020
Sample Received : June 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	295 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	295 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.101 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.220 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.5	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.7 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	815 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	838 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4450 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.50 ± 0.07 units	units		6/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	2930 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	2960 ± 6.2%	mg/L		6/19/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	33.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	12.4 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0235 ± 9.8%	mg/L		6/24/2020	COW_ASB
Antimony (Sb), soluble in water	0.0026 ± 9.2%	mg/L		6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0002 ± 8.1%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Boron (B), soluble in water	1.022 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	0.000086 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	199.1 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00068 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	0.00138 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.1038 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	0.00026 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	214.4 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.03165 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00774 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	33.88 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	635.6 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0047 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0644 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.16258 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.008438 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.000250 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.023506 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.95686 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	0.000120 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	162.37 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00266 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.005317 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.96319 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.001959 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	172.07 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.04213 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.008322 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.0200	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	28.863 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00066 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	511.60 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.004608 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.08278 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	405	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	1110	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	12.80 ± 4.4%	NTU	6/15/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	783.000	mg/L	6/25/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	872.00	mg/L	6/25/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/25/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/25/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/25/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/25/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/25/2020	ALS
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Surrogate: 1,4-Difluorobenzene	99.8	%	6/25/2020	ALS
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Acetone	<0.050	mg/L	6/25/2020	ALS
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Benzene	<0.00050	mg/L	6/25/2020	ALS
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Bromodichloromethane	0.00112	mg/L	6/25/2020	ALS
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Bromoform	0.0022	mg/L	6/25/2020	ALS
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Bromomethane	<0.001	mg/L	6/25/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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Chloroethane	<0.001	mg/L	6/25/2020	ALS
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Chloroform	0.00219	mg/L	6/25/2020	ALS
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Chloromethane	<0.005	mg/L	6/25/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Dibromochloromethane	0.0015	mg/L	6/25/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/25/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/25/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/25/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/25/2020	ALS
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o-Xylene	<0.0005	mg/L	6/25/2020	ALS
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Styrene	<0.0010	mg/L	6/25/2020	ALS
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Toluene	<0.00050	mg/L	6/25/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/25/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/25/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0069	mg/L	6/25/2020	ALS
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Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	6/25/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
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Total Coliforms by QT97	866	MPN/100mL	6/25/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	103.800	%	6/25/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	6/25/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	6/25/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	6/25/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/25/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/25/2020	ALS
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Total Organic Carbon by High Temperature Combustion

Total Organic Carbon as NPOC	10.8 ± 13%	mg/L	10/2/2020	COW_ASB
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Sample No. : 308501
Sample Description : GWQ18-W6
Sample Date : June 15, 2020
Sample Received : June 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	363 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	363 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.184 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.053 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.4 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	510 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	286 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	24.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2600 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.41 ± 0.07 units	units		6/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1670 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1670 ± 6.2%	mg/L		6/19/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	<3.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	6.1 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0293 ± 9.8%	mg/L		6/24/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0006 ± 8.1%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Boron (B), soluble in water	0.6742 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	0.000026 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	160.1 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00022 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	0.00043 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.4100 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	0.00048 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	99.12 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.01733 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00033 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	27.38 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	538.0 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0197 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.20584 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.001652 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.005801 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.016884 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.61429 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	0.000038 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	104.92 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00186 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.003815 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	5.3569 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.005120 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	67.366 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.02684 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.001565 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.0359	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	22.779 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00088 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	359.01 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.03569 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	262	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	539	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	52.40 ± 4.4%	NTU	6/15/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	504.000	mg/L	6/25/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	272.00	mg/L	6/25/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/25/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/25/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/25/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/25/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/25/2020	ALS
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Surrogate: 1,4-Difluorobenzene	99.5	%	6/25/2020	ALS
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Acetone	<0.050	mg/L	6/25/2020	ALS
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Benzene	<0.00050	mg/L	6/25/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/25/2020	ALS
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Bromoform	<0.0010	mg/L	6/25/2020	ALS
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Bromomethane	<0.001	mg/L	6/25/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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Chloroethane	<0.001	mg/L	6/25/2020	ALS
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Chloroform	<0.00050	mg/L	6/25/2020	ALS
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Chloromethane	<0.005	mg/L	6/25/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/25/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/25/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/25/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/25/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/25/2020	ALS
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o-Xylene	<0.0005	mg/L	6/25/2020	ALS
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Styrene	<0.0010	mg/L	6/25/2020	ALS
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Toluene	<0.00050	mg/L	6/25/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/25/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/25/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/25/2020	ALS
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Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/25/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
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Total Coliforms by QT97	8	MPN/100mL	6/25/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	105.800	%	6/25/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	6/25/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	6/25/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	6/25/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/25/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/25/2020	ALS
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Total Organic Carbon by High Temperature Combustion

Total Organic Carbon as NPOC	13.1 ± 13%	mg/L	10/2/2020	COW_ASB
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Sample No. : 308502
Sample Description : GWQ18-W7
Sample Date : June 16, 2020
Sample Received : June 16, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	348 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	348 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.042 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.197 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.2	mg/L		7/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.4 ± 15%	mg/L		7/16/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	355 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	206 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2020 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.55 ± 0.07 units	units		6/16/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1220 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	116.0	mg/L		6/24/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.1 ± 13%	mg/L		7/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	23.4 ± 13%	mg/L		7/16/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0029 ± 9.8%	mg/L		6/24/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0007 ± 8.1%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Boron (B), soluble in water	0.6271 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	0.000045 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	101.2 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00009 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	0.00070 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0020 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	68.52 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.00429 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00075 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	26.36 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	270.8 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0202 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.14433 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.001480 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.002642 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.016649 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.52329 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	0.000048 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	89.509 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00134 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.003562 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.63673 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.008747 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	58.153 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.00894 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.001471 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.0131	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	18.984 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00072 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	227.27 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.03827 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	224	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	463	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	11.30 ± 4.4%	NTU	6/16/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	313.000	mg/L	6/25/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	199.00	mg/L	6/25/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/25/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/25/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/25/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/25/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/25/2020	ALS
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Surrogate: 1,4-Difluorobenzene	93.4	%	6/25/2020	ALS
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Acetone	<0.050	mg/L	6/25/2020	ALS
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Benzene	<0.00050	mg/L	6/25/2020	ALS
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Bromodichloromethane	0.00132	mg/L	6/25/2020	ALS
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Bromoform	0.0198	mg/L	6/25/2020	ALS
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Bromomethane	<0.001	mg/L	6/25/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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Chloroethane	<0.001	mg/L	6/25/2020	ALS
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Chloroform	0.00066	mg/L	6/25/2020	ALS
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Chloromethane	<0.005	mg/L	6/25/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Dibromochloromethane	0.0059	mg/L	6/25/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/25/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/25/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/25/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/25/2020	ALS
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o-Xylene	<0.0005	mg/L	6/25/2020	ALS
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Styrene	<0.0010	mg/L	6/25/2020	ALS
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Toluene	<0.00050	mg/L	6/25/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/25/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/25/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0277	mg/L	6/25/2020	ALS
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Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/25/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/25/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	107.000	%	6/25/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	6/25/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	6/25/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	6/25/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.20	mg/L	6/25/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.42	mg/L	6/25/2020	ALS
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Total Solids by Gravimetric Analysis

Total Solid	1330 ± 6.2%	mg/L	6/24/2020	COW_ASB
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Sample No. : 308503
Sample Description : GWQ18-W8
Sample Date : June 15, 2020
Sample Received : June 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	396 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	396 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	<0.003 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.050 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.4 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	540 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1120 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	29.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4140 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.61 ± 0.07 units	units		6/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3030 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3080 ± 6.2%	mg/L		6/19/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	51.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	17.0 ± 13%	mg/L		7/13/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	21.9 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0055 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0009 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	0.6478 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	0.000095 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	220.4 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00014 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	0.00362 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0068 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	0.00055 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	248.2 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.00164 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00392 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	25.69 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	507.6 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0190 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0754 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.12943 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.004714 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.001232 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.012840 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.58918 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	0.000117 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	189.48 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00236 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.007149 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.47782 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.007526 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	209.26 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.01198 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.004628 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.0097	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	22.036 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00053 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	415.95 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.018226 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.08485 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	473	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	1330	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	15.00 ± 4.4%	NTU	6/15/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	518.000	mg/L	6/25/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	1170.00	mg/L	6/25/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/25/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/25/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/25/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/25/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/25/2020	ALS
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Surrogate: 1,4-Difluorobenzene	100.2	%	6/25/2020	ALS
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Acetone	<0.050	mg/L	6/25/2020	ALS
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Benzene	<0.00050	mg/L	6/25/2020	ALS
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Bromodichloromethane	0.00063	mg/L	6/25/2020	ALS
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Bromoform	0.0080	mg/L	6/25/2020	ALS
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Bromomethane	<0.001	mg/L	6/25/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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Chloroethane	<0.001	mg/L	6/25/2020	ALS
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Chloroform	0.00058	mg/L	6/25/2020	ALS
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Chloromethane	<0.005	mg/L	6/25/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Dibromochloromethane	0.0029	mg/L	6/25/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/25/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/25/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/25/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/25/2020	ALS
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o-Xylene	<0.0005	mg/L	6/25/2020	ALS
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Styrene	<0.0010	mg/L	6/25/2020	ALS
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Toluene	<0.00050	mg/L	6/25/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/25/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/25/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	0.0120	mg/L	6/25/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.006	mg/L	6/25/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
Total Coliforms by QT97	8	MPN/100mL	6/25/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	106.500	%	6/25/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/25/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/25/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/25/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/25/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/25/2020	ALS

Sample No. : 308504
Sample Description : GWQ18-W9
Sample Date : June 16, 2020
Sample Received : June 16, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	374 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	374 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.236 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.019 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.7	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.7 ± 15%	mg/L		7/16/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	520 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	283 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2670 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.38 ± 0.07 units	units		6/16/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1620 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1730 ± 6.2%	mg/L		6/19/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	108.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	14.3 ± 13%	mg/L		7/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	14.1 ± 13%	mg/L		7/16/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0082 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0002 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	0.6801 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	114.6 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00006 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0090 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	73.30 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.01706 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	<0.00008 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	28.09 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	370.0 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0063 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.22788 ± 9.8%	mg/L	7/5/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/5/2020	COW_ASB
Arsenic (As), total in water	0.001127 ± 8.1%	mg/L	7/5/2020	COW_ASB
Barium (Ba), total in water	0.011827 ± 11.8%	mg/L	7/5/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/5/2020	COW_ASB
Boron (B), total in water	0.48028 ± 24.2%	mg/L	7/5/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/5/2020	COW_ASB
Calcium (Ca), total in water	104.73 ± 20.9%	mg/L	7/5/2020	COW_ASB
Chromium (Cr), total in water	0.00104 ± 12.8%	mg/L	7/5/2020	COW_ASB
Copper (Cu), total in water	<0.000022 ± 12.1%	mg/L	7/5/2020	COW_ASB
Iron (Fe), total in water	2.4832 ± 9.7%	mg/L	7/5/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/5/2020	COW_ASB
Magnesium (Mg), total in water	69.137 ± 10.5%	mg/L	7/5/2020	COW_ASB
Manganese (Mn), total in water	0.02006 ± 11.2%	mg/L	7/5/2020	COW_ASB
Nickel (Ni), total in water	0.000981 ± 12.2%	mg/L	7/5/2020	COW_ASB
Phosphorus (P), total in water	0.0667	mg/L	7/5/2020	COW_ASB
Potassium (K), total in water	20.770 ± 18.3%	mg/L	7/5/2020	COW_ASB
Selenium (Se), total in water	0.00340 ± 8.0%	mg/L	7/5/2020	COW_ASB
Sodium (Na), total in water	354.71 ± 9.2%	mg/L	7/5/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	7/5/2020	COW_ASB
Zinc (Zn), total in water	0.01792 ± 10.7%	mg/L	7/5/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	262	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	546	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	28.10 ± 4.4%	NTU	6/16/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	488.000	mg/L	6/25/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	273.00	mg/L	6/25/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/25/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/25/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/25/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/25/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/25/2020	ALS
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Surrogate: 1,4-Difluorobenzene	94.8	%	6/25/2020	ALS
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Acetone	<0.050	mg/L	6/25/2020	ALS
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Benzene	<0.00050	mg/L	6/25/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/25/2020	ALS
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Bromoform	<0.0010	mg/L	6/25/2020	ALS
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Bromomethane	<0.001	mg/L	6/25/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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Chloroethane	<0.001	mg/L	6/25/2020	ALS
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Chloroform	<0.00050	mg/L	6/25/2020	ALS
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Chloromethane	<0.005	mg/L	6/25/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/25/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/25/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/25/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/25/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/25/2020	ALS
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o-Xylene	<0.0005	mg/L	6/25/2020	ALS
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Styrene	<0.0010	mg/L	6/25/2020	ALS
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Toluene	<0.00050	mg/L	6/25/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/25/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/25/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/25/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.005	mg/L	6/25/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
Total Coliforms by QT97	5	MPN/100mL	6/25/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	106.400	%	6/25/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/25/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/25/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/25/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/25/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/25/2020	ALS

Sample No. : 308505
Sample Description : GWQ18-W10
Sample Date : June 18, 2020
Sample Received : June 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	402 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, total to pH 4.5	402 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.118 ± 16.9%	mg/L		6/25/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/25/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/25/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.7	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.8 ± 15%	mg/L		7/16/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	91.5 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	149 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	38.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1600 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.39 ± 0.07 units	units		6/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	930 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1330 ± 6.2%	mg/L		6/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	400.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.6 ± 13%	mg/L		7/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.9 ± 13%	mg/L		7/16/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0049 ± 9.8%	mg/L		6/30/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/30/2020	COW_ASB
Arsenic (As), soluble in water	0.0003 ± 8.1%	mg/L	6/30/2020	COW_ASB
Boron (B), soluble in water	0.5276 ± 24.2%	mg/L	6/30/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/30/2020	COW_ASB
Calcium (Ca), soluble in water	79.94 ± 20.9%	mg/L	6/30/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	6/30/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/30/2020	COW_ASB
Iron (Fe), soluble in water	0.0017 ± 9.7%	mg/L	6/30/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/30/2020	COW_ASB
Magnesium (Mg), soluble in water	62.46 ± 10.5%	mg/L	6/30/2020	COW_ASB
Manganese (Mn), soluble in water	0.00130 ± 11.2%	mg/L	6/30/2020	COW_ASB
Nickel (Ni), soluble in water	0.00052 ± 12.2%	mg/L	6/30/2020	COW_ASB
Potassium (K), soluble in water	20.18 ± 18.3%	mg/L	6/30/2020	COW_ASB
Sodium (Na), soluble in water	184.4 ± 9.2%	mg/L	6/30/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	6/30/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	6/30/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	3.3241 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.002360 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.002772 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.026145 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.43984 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	0.000020 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	119.91 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00537 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.007045 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	4.2235 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.002092 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	63.473 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.10190 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.006720 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.2487	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	17.248 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00155 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	164.38 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.03802 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	299	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	561	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	200.00 ± 4.4%	NTU	6/18/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	222.000	mg/L	6/30/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	164.00	mg/L	6/30/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/30/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/30/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/30/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/30/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/30/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.7	%	6/30/2020	ALS
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Acetone	<0.050	mg/L	6/30/2020	ALS
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Benzene	<0.00050	mg/L	6/30/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/30/2020	ALS
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Bromoform	<0.0010	mg/L	6/30/2020	ALS
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Bromomethane	<0.001	mg/L	6/30/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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Chloroethane	<0.001	mg/L	6/30/2020	ALS
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Chloroform	<0.00050	mg/L	6/30/2020	ALS
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Chloromethane	<0.005	mg/L	6/30/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/30/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/30/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/30/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/30/2020	ALS
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Methytertbutylether [MTBE]	<0.0005	mg/L	6/30/2020	ALS
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o-Xylene	<0.0005	mg/L	6/30/2020	ALS
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Styrene	<0.0010	mg/L	6/30/2020	ALS
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Toluene	<0.00050	mg/L	6/30/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/30/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/30/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/30/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.001	mg/L	6/30/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	1	MPN/100mL	6/30/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/30/2020	ALS
Total Coliforms by QT97	25	MPN/100mL	6/30/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/30/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	106.800	%	6/30/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/30/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/30/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/30/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/30/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/30/2020	ALS

Sample No. : 308506
Sample Description : GWQ18-W13
Sample Date : June 15, 2020
Sample Received : June 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	109 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	14.5 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	124 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	7.3 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.175 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.014 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.5	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.5 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	870 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	663 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	74.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4200 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.70 ± 0.07 units	units		6/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	2700 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	2780 ± 6.2%	mg/L		6/19/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	77.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	16.4 ± 13%	mg/L		7/13/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	55.6 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0082 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0002 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	0.6863 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	67.69 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00017 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	0.00019 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.6694 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	0.00020 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	253.0 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.17104 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00023 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	33.77 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	610.4 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0009 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.27430 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.000342 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.011747 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.54218 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	60.206 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.01433 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.040898 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	80.097 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.037949 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	206.00 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	1.1644 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.040414 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	26.943 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	502.38 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.05196 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	150	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	999	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	116.00 ± 4.4%	NTU	6/15/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	881.000	mg/L	6/25/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	646.00	mg/L	6/25/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/25/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/25/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/25/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/25/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/25/2020	ALS
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Surrogate: 1,4-Difluorobenzene	99.7	%	6/25/2020	ALS
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Acetone	<0.050	mg/L	6/25/2020	ALS
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Benzene	<0.00050	mg/L	6/25/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/25/2020	ALS
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Bromoform	<0.0010	mg/L	6/25/2020	ALS
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Bromomethane	<0.001	mg/L	6/25/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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Chloroethane	<0.001	mg/L	6/25/2020	ALS
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Chloroform	<0.00050	mg/L	6/25/2020	ALS
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Chloromethane	<0.005	mg/L	6/25/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/25/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/25/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/25/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/25/2020	ALS
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Methytertbutylether [MTBE]	<0.0005	mg/L	6/25/2020	ALS
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o-Xylene	<0.0005	mg/L	6/25/2020	ALS
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Styrene	<0.0010	mg/L	6/25/2020	ALS
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Toluene	<0.00050	mg/L	6/25/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/25/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/25/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/25/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.009	mg/L	6/25/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
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Total Coliforms by QT97	687	MPN/100mL	6/25/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	109.600	%	6/25/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	6/25/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	6/25/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	6/25/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/25/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/25/2020	ALS
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Sample No. : 308507
Sample Description : GWQ18-100
Sample Date : June 11, 2020
Sample Received : June 11, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	404 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, total to pH 4.5	404 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.196 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.3	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.3 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	520 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	325 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/18/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2980 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.24 ± 0.07 units	units		6/11/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1740 ± 6.5%	mg/L		6/13/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1960 ± 6.2%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	220.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	9.0 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0218 ± 9.8%	mg/L		6/24/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0003 ± 8.1%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Boron (B), soluble in water	0.6694 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	141.9 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00008 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0254 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	109.1 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.00695 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00024 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	25.80 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	354.3 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0025 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.96731 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.000287 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.000761 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.021989 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.53640 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	161.45 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00247 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.001715 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	2.7460 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.006925 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	111.50 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.07109 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.002461 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.0364	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	18.341 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00072 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	313.74 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.002674 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.00968 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	403	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	862	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	91.60 ± 4.4%	NTU	6/11/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	536.000	mg/L	6/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	308.00	mg/L	6/22/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/22/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/22/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/22/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/22/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/22/2020	ALS
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Surrogate: 1,4-Difluorobenzene	98.0	%	6/22/2020	ALS
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Acetone	<0.050	mg/L	6/22/2020	ALS
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Benzene	<0.00050	mg/L	6/22/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/22/2020	ALS
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Bromoform	<0.0010	mg/L	6/22/2020	ALS
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Bromomethane	<0.001	mg/L	6/22/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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Chloroethane	<0.001	mg/L	6/22/2020	ALS
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Chloroform	<0.00050	mg/L	6/22/2020	ALS
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Chloromethane	<0.005	mg/L	6/22/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/22/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/22/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/22/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/22/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/22/2020	ALS
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o-Xylene	<0.0005	mg/L	6/22/2020	ALS
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Styrene	<0.0010	mg/L	6/22/2020	ALS
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Toluene	<0.00050	mg/L	6/22/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/22/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	6/22/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	97.300	%	6/22/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	6/22/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	6/22/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	6/22/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/22/2020	ALS
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Total Organic Carbon by High Temperature Combustion

Total Organic Carbon as NPOC	10.8 ± 13%	mg/L	10/2/2020	COW_ASB
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Sample No. : 308508
Sample Description : GWQ18-W16
Sample Date : June 11, 2020
Sample Received : June 11, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	693 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, total to pH 4.5	693 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.176 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.021 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.018 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.0	mg/L		7/10/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.0 ± 15%	mg/L		7/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1480 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2090 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	138 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8210 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.19 ± 0.07 units	units		6/11/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	6420 ± 6.5%	mg/L		6/13/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	8490 ± 6.2%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	2067	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	17.6 ± 13%	mg/L		7/10/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	22.7 ± 13%	mg/L		7/10/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0006 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	1.016 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	478.6 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00013 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0261 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	536.1 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.15081 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00637 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	47.05 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	975.4 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0165 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0051 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	13.949 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.001701 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.009085 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.15543 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	0.00044 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.83235 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	0.000111 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	735.15 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.03223 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.092732 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	43.886 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.009901 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	567.78 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.87970 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.032648 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.8859	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	33.529 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00306 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	887.74 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.021938 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.45429 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1840	mg/L	7/10/2020	COW_ASB
Total Hardness, calculated in water	4170	mg/L	7/10/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2387.00 ± 4.4%	NTU	6/11/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1460.000	mg/L	6/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	2490.00	mg/L	6/22/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/22/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/22/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/22/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/22/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/22/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.8	%	6/22/2020	ALS
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Acetone	<0.050	mg/L	6/22/2020	ALS
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Benzene	<0.00050	mg/L	6/22/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/22/2020	ALS
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Bromoform	<0.0010	mg/L	6/22/2020	ALS
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Bromomethane	<0.001	mg/L	6/22/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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Chloroethane	<0.001	mg/L	6/22/2020	ALS
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Chloroform	<0.00050	mg/L	6/22/2020	ALS
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Chloromethane	<0.005	mg/L	6/22/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/22/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/22/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/22/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/22/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/22/2020	ALS
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o-Xylene	<0.0005	mg/L	6/22/2020	ALS
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Styrene	<0.0010	mg/L	6/22/2020	ALS
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Toluene	<0.00050	mg/L	6/22/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/22/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/22/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	<0.001	mg/L	6/22/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/22/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	99.700	%	6/22/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/22/2020	ALS
Fraction 3 (C16-C34)	1.050	mg/L	6/22/2020	ALS
Fraction 4 (C34-C50)	0.260	mg/L	6/22/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
Total Hydrocarbons (C6-C50)	1.30	mg/L	6/22/2020	ALS

Sample No. : 308509
Sample Description : GWQ18-W17
Sample Date : June 11, 2020
Sample Received : June 11, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	397 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, total to pH 4.5	397 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.126 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	860 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	778 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	20.0 ± 6.1%	mg/L		6/18/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4130 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.29 ± 0.07 units	units		6/11/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	2640 ± 6.5%	mg/L		6/13/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	2830 ± 6.2%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	195.0	mg/L		6/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	5.4 ± 13%	mg/L		7/10/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	7.0 ± 13%	mg/L		7/10/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0002 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	0.5316 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	248.5 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00005 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0207 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	204.1 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.14229 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00115 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	26.97 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	481.6 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0053 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0029 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.54385 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.000444 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.020290 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.49202 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	217.75 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00201 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.006542 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	1.2749 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.000274 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	170.30 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.16945 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.002905 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.0280	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	21.216 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00052 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	391.68 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.005936 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.01806 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	544	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	1250	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	38.80 ± 4.4%	NTU	6/11/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	750.000	mg/L	6/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	690.00	mg/L	6/22/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/22/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/22/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/22/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/22/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/22/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.4	%	6/22/2020	ALS
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Acetone	<0.050	mg/L	6/22/2020	ALS
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Benzene	<0.00050	mg/L	6/22/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/22/2020	ALS
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Bromoform	<0.0010	mg/L	6/22/2020	ALS
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Bromomethane	<0.001	mg/L	6/22/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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Chloroethane	<0.001	mg/L	6/22/2020	ALS
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Chloroform	<0.00050	mg/L	6/22/2020	ALS
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Chloromethane	<0.005	mg/L	6/22/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/22/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/22/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/22/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/22/2020	ALS
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Methytertbutylether [MTBE]	<0.0005	mg/L	6/22/2020	ALS
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o-Xylene	<0.0005	mg/L	6/22/2020	ALS
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Styrene	<0.0010	mg/L	6/22/2020	ALS
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Toluene	<0.00050	mg/L	6/22/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/22/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/22/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	<0.001	mg/L	6/22/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/22/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	99.200	%	6/22/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/22/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/22/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/22/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/22/2020	ALS

Sample No. : 308510
Sample Description : GWQ18-W18
Sample Date : June 11, 2020
Sample Received : June 11, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	406 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, total to pH 4.5	406 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.171 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.2	mg/L		7/10/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/10/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	590 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	335 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/18/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2960 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.34 ± 0.07 units	units		6/11/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1740 ± 6.5%	mg/L		6/14/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1970 ± 6.2%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	232.0	mg/L		6/14/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	9.6 ± 13%	mg/L		7/10/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/24/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0003 ± 8.1%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Boron (B), soluble in water	0.6660 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	158.7 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00006 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0325 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	114.2 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.02873 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00035 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	26.03 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	370.7 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0025 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.94003 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.000106 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.000761 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.021791 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.51612 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	149.47 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00240 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.007043 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	2.5978 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.000640 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	97.527 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.06667 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.002056 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.0551	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	17.320 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00119 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	305.56 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.002502 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.00843 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	373	mg/L	7/10/2020	COW_ASB
Total Hardness, calculated in water	775	mg/L	7/10/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	100.00 ± 4.4%	NTU	6/11/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	542.000	mg/L	6/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	308.00	mg/L	6/22/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/22/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/22/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/22/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/22/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/22/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.7	%	6/22/2020	ALS
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Acetone	<0.050	mg/L	6/22/2020	ALS
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Benzene	<0.00050	mg/L	6/22/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/22/2020	ALS
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Bromoform	<0.0010	mg/L	6/22/2020	ALS
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Bromomethane	<0.001	mg/L	6/22/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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Chloroethane	<0.001	mg/L	6/22/2020	ALS
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Chloroform	<0.00050	mg/L	6/22/2020	ALS
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Chloromethane	<0.005	mg/L	6/22/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/22/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/22/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/22/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/22/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/22/2020	ALS
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o-Xylene	<0.0005	mg/L	6/22/2020	ALS
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Styrene	<0.0010	mg/L	6/22/2020	ALS
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Toluene	<0.00050	mg/L	6/22/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/22/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	6/22/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	96.600	%	6/22/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	6/22/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	6/22/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	6/22/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/22/2020	ALS
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Dissolved Organic Carbon by High Temperature Combustion

Dissolved Organic Carbon, as NPOC	14.0 ± 13%	mg/L	10/2/2020	COW_ASB
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Sample No. : 308511
Sample Description : GWQ36-W2
Sample Date : June 15, 2020
Sample Received : June 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	282 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	282 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.099 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	41.6 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	87.8 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	779 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.57 ± 0.07 units	units		6/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	485 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	558 ± 6.2%	mg/L		6/19/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	73.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	4.3 ± 13%	mg/L		7/13/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	16.3 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0019 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0029 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	0.1186 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	63.54 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00004 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0209 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	55.64 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.01328 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00011 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	5.498 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	43.11 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0024 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0087 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.15711 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.001756 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.002577 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.031681 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.06186 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	54.976 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00153 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.002040 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.24270 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.000663 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	46.462 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.01360 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.001593 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	4.142 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	34.079 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.001027 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.17200 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	137	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	329	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.50 ± 4.4%	NTU	6/15/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	44.100	mg/L	6/25/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	88.90	mg/L	6/25/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/25/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/25/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/25/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/25/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/25/2020	ALS
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Surrogate: 1,4-Difluorobenzene	100.6	%	6/25/2020	ALS
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Acetone	<0.050	mg/L	6/25/2020	ALS
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Benzene	<0.00050	mg/L	6/25/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/25/2020	ALS
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Bromoform	<0.0010	mg/L	6/25/2020	ALS
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Bromomethane	<0.001	mg/L	6/25/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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Chloroethane	<0.001	mg/L	6/25/2020	ALS
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Chloroform	<0.00050	mg/L	6/25/2020	ALS
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Chloromethane	<0.005	mg/L	6/25/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/25/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/25/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/25/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/25/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/25/2020	ALS
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o-Xylene	<0.0005	mg/L	6/25/2020	ALS
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Styrene	<0.0010	mg/L	6/25/2020	ALS
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Toluene	<0.00050	mg/L	6/25/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/25/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/25/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/25/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.002	mg/L	6/25/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
Total Coliforms by QT97	1	MPN/100mL	6/25/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	103.600	%	6/25/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/25/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/25/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/25/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/25/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/25/2020	ALS

Sample No. : 308512
Sample Description : GWQ36-W4
Sample Date : June 15, 2020
Sample Received : June 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	277 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	277 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.209 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.023 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.4 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	58.0 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	99.0 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	864 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.57 ± 0.07 units	units		6/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	569 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	137.0	mg/L		6/24/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	9.7 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0095 ± 9.8%	mg/L		6/24/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0018 ± 8.1%	mg/L		6/24/2020	COW_ASB
Boron (B), soluble in water	0.1301 ± 24.2%	mg/L		6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	67.31 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00003 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0212 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	0.00009 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	60.86 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.01195 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	<0.00008 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	5.912 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	65.40 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0025 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.1261 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.09456 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.001751 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.025681 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.10851 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	0.000020 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	60.591 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00100 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000837 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.30743 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.002414 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	52.669 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.01801 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000615 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.0480	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	4.790 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00070 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	49.023 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.002418 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	1.1214 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	151	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	368	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	18.30 ± 4.4%	NTU	6/15/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	70.200	mg/L	6/25/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	105.00	mg/L	6/25/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/25/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/25/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/25/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/25/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/25/2020	ALS
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Surrogate: 1,4-Difluorobenzene	100.8	%	6/25/2020	ALS
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Acetone	<0.050	mg/L	6/25/2020	ALS
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Benzene	<0.00050	mg/L	6/25/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/25/2020	ALS
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Bromoform	<0.0010	mg/L	6/25/2020	ALS
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Bromomethane	<0.001	mg/L	6/25/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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Chloroethane	<0.001	mg/L	6/25/2020	ALS
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Chloroform	<0.00050	mg/L	6/25/2020	ALS
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Chloromethane	<0.005	mg/L	6/25/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/25/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/25/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/25/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/25/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/25/2020	ALS
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o-Xylene	<0.0005	mg/L	6/25/2020	ALS
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Styrene	<0.0010	mg/L	6/25/2020	ALS
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Toluene	<0.00050	mg/L	6/25/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/25/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/25/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/25/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.005	mg/L	6/25/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by MPN QT97

Fecal Coliform by QT97	>2420	MPN/100mL	6/25/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	>2420	MPN/100mL	6/25/2020	ALS
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Total Coliforms by QT97	>2420	MPN/100mL	6/25/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	105.900	%	6/25/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	6/25/2020	ALS
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Fraction 3 (C16-C34)	0.290	mg/L	6/25/2020	ALS
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Fraction 4 (C34-C50)	0.700	mg/L	6/25/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/25/2020	ALS
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Total Hydrocarbons (C6-C50)	0.99	mg/L	6/25/2020	ALS
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Total Solids by Gravimetric Analysis

Total Solid	706 ± 6.2%	mg/L	6/24/2020	COW_ASB
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Total Organic Carbon by High Temperature Combustion

Total Organic Carbon as NPOC	10.1 ± 13%	mg/L	10/2/2020	COW_ASB
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Sample No. : 308513
Sample Description : GWQ36-W5
Sample Date : June 18, 2020
Sample Received : June 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	278 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, total to pH 4.5	278 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.127 ± 16.9%	mg/L		6/25/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/25/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/25/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/16/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	69.6 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	129 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	974 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.55 ± 0.07 units	units		6/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	560 ± 6.5%	mg/L		6/22/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	608 ± 6.2%	mg/L		6/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	48.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.1 ± 13%	mg/L		7/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	2.1 ± 13%	mg/L		7/16/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/30/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/30/2020	COW_ASB
Arsenic (As), soluble in water	0.0022 ± 8.1%	mg/L	6/30/2020	COW_ASB
Boron (B), soluble in water	0.1217 ± 24.2%	mg/L	6/30/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/30/2020	COW_ASB
Calcium (Ca), soluble in water	66.90 ± 20.9%	mg/L	6/30/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	6/30/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/30/2020	COW_ASB
Iron (Fe), soluble in water	0.0021 ± 9.7%	mg/L	6/30/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/30/2020	COW_ASB
Magnesium (Mg), soluble in water	56.47 ± 10.5%	mg/L	6/30/2020	COW_ASB
Manganese (Mn), soluble in water	0.01740 ± 11.2%	mg/L	6/30/2020	COW_ASB
Nickel (Ni), soluble in water	0.00038 ± 12.2%	mg/L	6/30/2020	COW_ASB
Potassium (K), soluble in water	5.885 ± 18.3%	mg/L	6/30/2020	COW_ASB
Sodium (Na), soluble in water	67.87 ± 9.2%	mg/L	6/30/2020	COW_ASB
Uranium (U), soluble in water	0.0020 ± 10.0%	mg/L	6/30/2020	COW_ASB
Zinc (Zn), soluble in water	0.0172 ± 10.7	mg/L	6/30/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00802 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.002027 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.023669 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.09818 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	61.299 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00055 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000229 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.15523 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.000187 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	49.314 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.01801 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000531 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	4.864 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	62.135 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.001973 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.14957 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	153	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	356	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	3.44 ± 4.4%	NTU	6/18/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	78.800	mg/L	6/30/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	128.00	mg/L	6/30/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/30/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/30/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/30/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/30/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/30/2020	ALS
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Surrogate: 1,4-Difluorobenzene	96.4	%	6/30/2020	ALS
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Acetone	<0.050	mg/L	6/30/2020	ALS
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Benzene	<0.00050	mg/L	6/30/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/30/2020	ALS
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Bromoform	<0.0010	mg/L	6/30/2020	ALS
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Bromomethane	<0.001	mg/L	6/30/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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Chloroethane	<0.001	mg/L	6/30/2020	ALS
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Chloroform	<0.00050	mg/L	6/30/2020	ALS
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Chloromethane	<0.005	mg/L	6/30/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/30/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/30/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/30/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/30/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/30/2020	ALS
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o-Xylene	<0.0005	mg/L	6/30/2020	ALS
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Styrene	<0.0010	mg/L	6/30/2020	ALS
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Toluene	<0.00050	mg/L	6/30/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/30/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/30/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/30/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.003	mg/L	6/30/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/30/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/30/2020	ALS
Total Coliforms by QT97	921	MPN/100mL	6/30/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/30/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	108.300	%	6/30/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/30/2020	ALS
Fraction 3 (C16-C34)	0.370	mg/L	6/30/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/30/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/30/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/30/2020	ALS

Sample No. : 308514
Sample Description : GWQ36-W6
Sample Date : June 18, 2020
Sample Received : June 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	268 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, total to pH 4.5	268 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.176 ± 16.9%	mg/L		6/25/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/25/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.029 ± 7.5%	mg/L		6/25/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/16/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	49.6 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	89.6 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	803 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.57 ± 0.07 units	units		6/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	453 ± 6.5%	mg/L		6/22/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	502 ± 6.2%	mg/L		6/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	49.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	<0.6 ± 13%	mg/L		7/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	2.1 ± 13%	mg/L		7/16/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/30/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/30/2020	COW_ASB
Arsenic (As), soluble in water	0.0027 ± 8.1%	mg/L	6/30/2020	COW_ASB
Boron (B), soluble in water	0.1061 ± 24.2%	mg/L	6/30/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/30/2020	COW_ASB
Calcium (Ca), soluble in water	57.74 ± 20.9%	mg/L	6/30/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	6/30/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/30/2020	COW_ASB
Iron (Fe), soluble in water	0.0078 ± 9.7%	mg/L	6/30/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/30/2020	COW_ASB
Magnesium (Mg), soluble in water	50.58 ± 10.5%	mg/L	6/30/2020	COW_ASB
Manganese (Mn), soluble in water	0.01438 ± 11.2%	mg/L	6/30/2020	COW_ASB
Nickel (Ni), soluble in water	0.00041 ± 12.2%	mg/L	6/30/2020	COW_ASB
Potassium (K), soluble in water	5.296 ± 18.3%	mg/L	6/30/2020	COW_ASB
Sodium (Na), soluble in water	43.45 ± 9.2%	mg/L	6/30/2020	COW_ASB
Uranium (U), soluble in water	0.0018 ± 10.0%	mg/L	6/30/2020	COW_ASB
Zinc (Zn), soluble in water	0.0146 ± 10.7	mg/L	6/30/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00925 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.002520 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.024271 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.09278 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	54.051 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00059 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000198 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.12930 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.000490 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	44.830 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.01711 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000765 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	4.395 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00057 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	43.525 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.001812 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.13575 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	135	mg/L	7/9/2020	COW_ASB
Total Hardness, calculated in water	320	mg/L	7/9/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.54 ± 4.4%	NTU	6/18/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	51.200	mg/L	6/30/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	85.70	mg/L	6/30/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/30/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/30/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/30/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/30/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/30/2020	ALS
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Surrogate: 1,4-Difluorobenzene	96.6	%	6/30/2020	ALS
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Acetone	<0.050	mg/L	6/30/2020	ALS
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Benzene	<0.00050	mg/L	6/30/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/30/2020	ALS
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Bromoform	<0.0010	mg/L	6/30/2020	ALS
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Bromomethane	<0.001	mg/L	6/30/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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Chloroethane	<0.001	mg/L	6/30/2020	ALS
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Chloroform	<0.00050	mg/L	6/30/2020	ALS
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Chloromethane	<0.005	mg/L	6/30/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/30/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/30/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/30/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/30/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/30/2020	ALS
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o-Xylene	<0.0005	mg/L	6/30/2020	ALS
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Styrene	<0.0010	mg/L	6/30/2020	ALS
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Toluene	<0.00050	mg/L	6/30/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/30/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/30/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/30/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.008	mg/L	6/30/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	1	MPN/100mL	6/30/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/30/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/30/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/30/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	105.800	%	6/30/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/30/2020	ALS
Fraction 3 (C16-C34)	0.390	mg/L	6/30/2020	ALS
Fraction 4 (C34-C50)	0.510	mg/L	6/30/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/30/2020	ALS
Total Hydrocarbons (C6-C50)	0.90	mg/L	6/30/2020	ALS

Sample No. : 308515
Sample Description : GWQ36-W8
Sample Date : June 15, 2020
Sample Received : June 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	286 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	286 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.151 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	79.8 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	128 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	992 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.55 ± 0.07 units	units		6/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	586 ± 6.5%	mg/L		6/22/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	688 ± 6.2%	mg/L		6/19/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	102.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	5.5 ± 13%	mg/L		7/13/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	7.4 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0025 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0016 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	0.1425 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	69.65 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00004 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	0.00044 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0274 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	65.24 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.01876 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	<0.00008 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	6.145 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	80.69 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0018 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0035 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00568 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.001507 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.029214 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.11584 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	61.186 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00060 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000721 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.10609 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	55.468 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.01880 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000257 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	5.085 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00027 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	62.584 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.001595 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.01167 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	153	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	381	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.65 ± 4.4%	NTU	6/15/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	90.700	mg/L	6/25/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	129.00	mg/L	6/25/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/25/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/25/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/25/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/25/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/25/2020	ALS
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Surrogate: 1,4-Difluorobenzene	100.6	%	6/25/2020	ALS
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Acetone	<0.050	mg/L	6/25/2020	ALS
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Benzene	<0.00050	mg/L	6/25/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/25/2020	ALS
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Bromoform	0.0039	mg/L	6/25/2020	ALS
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Bromomethane	<0.001	mg/L	6/25/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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Chloroethane	<0.001	mg/L	6/25/2020	ALS
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Chloroform	0.00063	mg/L	6/25/2020	ALS
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Chloromethane	<0.005	mg/L	6/25/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Dibromochloromethane	0.0022	mg/L	6/25/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/25/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/25/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/25/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/25/2020	ALS
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o-Xylene	<0.0005	mg/L	6/25/2020	ALS
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Styrene	<0.0010	mg/L	6/25/2020	ALS
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Toluene	<0.00050	mg/L	6/25/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/25/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/25/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0067	mg/L	6/25/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	6/25/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	11	MPN/100mL	6/25/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	6	MPN/100mL	6/25/2020	ALS
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Total Coliforms by QT97	10	MPN/100mL	6/25/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	106.100	%	6/25/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	6/25/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	6/25/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	6/25/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/25/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/25/2020	ALS
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Sample No. : 308516
Sample Description : GWQ36-W7
Sample Date : June 15, 2020
Sample Received : June 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	277 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	277 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.108 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		7/23/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.4 ± 15%	mg/L		7/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	38.8 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	76.6 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	778 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.56 ± 0.07 units	units		6/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	427 ± 6.5%	mg/L		6/22/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	470 ± 6.2%	mg/L		6/19/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	43.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	5.8 ± 13%	mg/L		7/17/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	5.4 ± 13%	mg/L		7/17/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0031 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	0.1128 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	65.12 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00004 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0315 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	57.78 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.01295 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00012 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	5.130 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	40.54 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0020 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0573 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00671 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.000245 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.002955 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.027712 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.08492 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	51.044 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00063 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000486 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.16283 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.000101 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	44.288 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.01320 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000711 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	3.888 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00081 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	34.390 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.001741 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.27836 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	128	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	310	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	3.35 ± 4.4%	NTU	6/15/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	47.500	mg/L	6/25/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	82.80	mg/L	6/25/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/25/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/25/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/25/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/25/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/25/2020	ALS
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Surrogate: 1,4-Difluorobenzene	100.7	%	6/25/2020	ALS
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Acetone	<0.050	mg/L	6/25/2020	ALS
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Benzene	<0.00050	mg/L	6/25/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/25/2020	ALS
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Bromoform	<0.0010	mg/L	6/25/2020	ALS
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Bromomethane	<0.001	mg/L	6/25/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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Chloroethane	<0.001	mg/L	6/25/2020	ALS
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Chloroform	<0.00050	mg/L	6/25/2020	ALS
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Chloromethane	<0.005	mg/L	6/25/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/25/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/25/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/25/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/25/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/25/2020	ALS
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o-Xylene	<0.0005	mg/L	6/25/2020	ALS
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Styrene	<0.0010	mg/L	6/25/2020	ALS
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Toluene	<0.00050	mg/L	6/25/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/25/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/25/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/25/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.002	mg/L	6/25/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/25/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/25/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	106.000	%	6/25/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/25/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/25/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/25/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/25/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/25/2020	ALS

Sample No. : 308517
Sample Description : GWQ36-W10
Sample Date : June 16, 2020
Sample Received : June 16, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	291 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	291 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.186 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/16/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	85.0 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	169 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1080 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.48 ± 0.07 units	units		6/16/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	722 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	70.0	mg/L		6/24/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.8 ± 13%	mg/L		7/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	28.5 ± 13%	mg/L		7/16/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/24/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0010 ± 8.1%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Boron (B), soluble in water	0.1467 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	80.91 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00045 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.1007 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	72.91 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.02042 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	<0.00008 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	6.440 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	95.54 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0022 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0026 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00604 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.000794 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.023189 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.11306 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	66.139 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00091 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000044 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.12704 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	56.629 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.02005 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000636 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	5.036 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00064 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	68.359 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.001880 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.01043 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	165	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	398	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.99 ± 4.4%	NTU	6/16/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	96.100	mg/L	6/26/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	162.00	mg/L	6/26/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/26/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/26/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/26/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/26/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/26/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/26/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/26/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/26/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/26/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/26/2020	ALS
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Surrogate: 1,4-Difluorobenzene	93.0	%	6/26/2020	ALS
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Acetone	<0.050	mg/L	6/26/2020	ALS
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Benzene	<0.00050	mg/L	6/26/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/26/2020	ALS
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Bromoform	<0.0010	mg/L	6/26/2020	ALS
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Bromomethane	<0.001	mg/L	6/26/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/26/2020	ALS
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Chloroethane	<0.001	mg/L	6/26/2020	ALS
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Chloroform	<0.00050	mg/L	6/26/2020	ALS
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Chloromethane	<0.005	mg/L	6/26/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/26/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/26/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/26/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/26/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/26/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/26/2020	ALS
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o-Xylene	<0.0005	mg/L	6/26/2020	ALS
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Styrene	<0.0010	mg/L	6/26/2020	ALS
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Toluene	<0.00050	mg/L	6/26/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/26/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/26/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/26/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/26/2020	ALS
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Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.005	mg/L	6/26/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	6	MPN/100mL	6/26/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	2	MPN/100mL	6/26/2020	ALS
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Total Coliforms by QT97	4	MPN/100mL	6/26/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/26/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	107.200	%	6/26/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	6/26/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	6/26/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	6/26/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/26/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/26/2020	ALS
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Total Solids by Gravimetric Analysis

Total Solid	792 ± 6.2%	mg/L	6/24/2020	COW_ASB
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Sample No. : 308518
Sample Description : GWQ36-W14
Sample Date : June 18, 2020
Sample Received : June 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	274 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, total to pH 4.5	274 ± 2.8%	mg/L		6/19/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/19/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.140 ± 16.9%	mg/L		6/25/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/25/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.111 ± 7.5%	mg/L		6/25/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/16/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	72.2 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	129 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	950 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.53 ± 0.07 units	units		6/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	585 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	592 ± 6.2%	mg/L		6/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	7.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.4 ± 13%	mg/L		7/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	2.0 ± 13%	mg/L		7/16/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/30/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/30/2020	COW_ASB
Arsenic (As), soluble in water	0.0035 ± 8.1%	mg/L	6/30/2020	COW_ASB
Boron (B), soluble in water	0.1272 ± 24.2%	mg/L	6/30/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/30/2020	COW_ASB
Calcium (Ca), soluble in water	64.91 ± 20.9%	mg/L	6/30/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	6/30/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/30/2020	COW_ASB
Iron (Fe), soluble in water	0.0107 ± 9.7%	mg/L	6/30/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/30/2020	COW_ASB
Magnesium (Mg), soluble in water	55.92 ± 10.5%	mg/L	6/30/2020	COW_ASB
Manganese (Mn), soluble in water	0.01044 ± 11.2%	mg/L	6/30/2020	COW_ASB
Nickel (Ni), soluble in water	0.00030 ± 12.2%	mg/L	6/30/2020	COW_ASB
Potassium (K), soluble in water	5.734 ± 18.3%	mg/L	6/30/2020	COW_ASB
Sodium (Na), soluble in water	64.12 ± 9.2%	mg/L	6/30/2020	COW_ASB
Uranium (U), soluble in water	0.0018 ± 10.0%	mg/L	6/30/2020	COW_ASB
Zinc (Zn), soluble in water	0.0011 ± 10.7	mg/L	6/30/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00799 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.000621 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.003013 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.024762 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.10037 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	58.299 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00044 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000585 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.13093 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	46.912 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.02208 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000425 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	4.500 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	58.548 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.001707 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.01093 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	146	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	339	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.60 ± 4.4%	NTU	6/18/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	78.800	mg/L	6/30/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	117.00	mg/L	6/30/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/30/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/30/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/30/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/30/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/30/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.4	%	6/30/2020	ALS
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Acetone	<0.050	mg/L	6/30/2020	ALS
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Benzene	<0.00050	mg/L	6/30/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/30/2020	ALS
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Bromoform	<0.0010	mg/L	6/30/2020	ALS
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Bromomethane	<0.001	mg/L	6/30/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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Chloroethane	<0.001	mg/L	6/30/2020	ALS
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Chloroform	<0.00050	mg/L	6/30/2020	ALS
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Chloromethane	<0.005	mg/L	6/30/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/30/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/30/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/30/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/30/2020	ALS
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Methytertbutylether [MTBE]	<0.0005	mg/L	6/30/2020	ALS
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o-Xylene	<0.0005	mg/L	6/30/2020	ALS
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Styrene	<0.0010	mg/L	6/30/2020	ALS
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Toluene	<0.00050	mg/L	6/30/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/30/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/30/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/30/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.001	mg/L	6/30/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/30/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/30/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/30/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/30/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	105.800	%	6/30/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/30/2020	ALS
Fraction 3 (C16-C34)	0.480	mg/L	6/30/2020	ALS
Fraction 4 (C34-C50)	0.770	mg/L	6/30/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/30/2020	ALS
Total Hydrocarbons (C6-C50)	1.25	mg/L	6/30/2020	ALS

Sample No. : 308519
Sample Description : GWQ36-W13
Sample Date : June 17, 2020
Sample Received : June 17, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	289 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	289 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.154 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/16/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	114 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	151 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1100 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.49 ± 0.07 units	units		6/17/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	701 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	53.0	mg/L		6/24/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	0.7 ± 13%	mg/L		7/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.7 ± 13%	mg/L		7/16/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0085 ± 9.8%	mg/L		6/24/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0005 ± 8.1%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Boron (B), soluble in water	0.1507 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	80.18 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00011 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0247 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	75.17 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.02101 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	<0.00008 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	6.469 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	94.33 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0022 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0046 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.02038 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.000385 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.026077 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.11676 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	67.763 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00185 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000369 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.05882 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	59.010 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.02370 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000703 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	5.170 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00048 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	72.850 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.001904 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.01010 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	169	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	412	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	1.21 ± 4.4%	NTU	6/17/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	112.000	mg/L	6/30/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	146.00	mg/L	6/30/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/30/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/30/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/30/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/30/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/30/2020	ALS
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Surrogate: 1,4-Difluorobenzene	93.6	%	6/30/2020	ALS
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Acetone	<0.050	mg/L	6/30/2020	ALS
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Benzene	<0.00050	mg/L	6/30/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/30/2020	ALS
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Bromoform	<0.0010	mg/L	6/30/2020	ALS
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Bromomethane	<0.001	mg/L	6/30/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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Chloroethane	<0.001	mg/L	6/30/2020	ALS
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Chloroform	<0.00050	mg/L	6/30/2020	ALS
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Chloromethane	<0.005	mg/L	6/30/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/30/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/30/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/30/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/30/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/30/2020	ALS
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o-Xylene	<0.0005	mg/L	6/30/2020	ALS
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Styrene	<0.0010	mg/L	6/30/2020	ALS
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Toluene	<0.00050	mg/L	6/30/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/30/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/30/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/30/2020	ALS
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Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	0.005	mg/L	6/30/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	1	MPN/100mL	6/30/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	1	MPN/100mL	6/30/2020	ALS
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Total Coliforms by QT97	1	MPN/100mL	6/30/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/30/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	101.900	%	6/30/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	6/30/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	6/30/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	6/30/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/30/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/30/2020	ALS
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Total Solids by Gravimetric Analysis

Total Solid	754 ± 6.2%	mg/L	6/24/2020	COW_ASB
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Sample No. : 308521
Sample Description : GWQ36-W11
Sample Date : June 17, 2020
Sample Received : June 17, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	288 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	288 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.145 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/16/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	90.6 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	167 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1070 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.66 ± 0.07 units	units		6/17/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	714 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	8.0	mg/L		6/24/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.1 ± 13%	mg/L		7/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	2.1 ± 13%	mg/L		7/16/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0095 ± 9.8%	mg/L		6/24/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0013 ± 8.1%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Boron (B), soluble in water	0.1486 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	77.38 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00013 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	0.00020 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0575 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	70.57 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.01519 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00015 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	6.751 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	85.59 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0021 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0027 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.02301 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.001518 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.026123 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.11356 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	65.810 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00261 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000464 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.20097 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	58.017 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.01589 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000947 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.0020	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	5.180 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00076 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	69.146 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.001874 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.01728 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	164	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	403	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.74 ± 4.4%	NTU	6/17/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	101.000	mg/L	6/30/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	153.00	mg/L	6/30/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/30/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/30/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/30/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/30/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/30/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/30/2020	ALS
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Surrogate: 1,4-Difluorobenzene	94.4	%	6/30/2020	ALS
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Acetone	<0.050	mg/L	6/30/2020	ALS
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Benzene	<0.00050	mg/L	6/30/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/30/2020	ALS
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Bromoform	0.0015	mg/L	6/30/2020	ALS
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Bromomethane	<0.001	mg/L	6/30/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/30/2020	ALS
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Chloroethane	<0.001	mg/L	6/30/2020	ALS
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Chloroform	<0.00050	mg/L	6/30/2020	ALS
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Chloromethane	<0.005	mg/L	6/30/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/30/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/30/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/30/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/30/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/30/2020	ALS
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o-Xylene	<0.0005	mg/L	6/30/2020	ALS
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Styrene	<0.0010	mg/L	6/30/2020	ALS
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Toluene	<0.00050	mg/L	6/30/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/30/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/30/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/30/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0015	mg/L	6/30/2020	ALS
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Phenol (4AAP)

Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	6/30/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	5	MPN/100mL	6/30/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	2	MPN/100mL	6/30/2020	ALS
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Total Coliforms by QT97	2	MPN/100mL	6/30/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/30/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	108.800	%	6/30/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	6/30/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	6/30/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	6/30/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/30/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/30/2020	ALS
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Total Solids by Gravimetric Analysis

Total Solid	722 ± 6.2%	mg/L	6/24/2020	COW_ASB
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Sample No. : 308522
Sample Description : GWQ36-WD24
Sample Date : June 11, 2020
Sample Received : June 11, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	273 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, total to pH 4.5	273 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.040 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.036 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	42.3 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	87.6 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/18/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	807 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.77 ± 0.07 units	units		6/11/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	455 ± 6.5%	mg/L		6/14/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1530 ± 6.2%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	1075	mg/L		6/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.6 ± 13%	mg/L		7/13/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	15.6 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0014 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	0.1139 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	62.95 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	0.01091 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0030 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	53.72 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.00795 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	<0.00008 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	6.095 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	41.06 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0024 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0136 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00611 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.001413 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.034730 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.08777 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	55.765 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00060 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.015973 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.05770 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.000066 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	45.347 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.00768 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000716 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	4.346 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	34.718 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.002413 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.01549 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	139	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	326	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.32 ± 4.4%	NTU	6/11/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	45.800	mg/L	6/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	84.00	mg/L	6/22/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/22/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/22/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/22/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/22/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/22/2020	ALS
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Surrogate: 1,4-Difluorobenzene	99.5	%	6/22/2020	ALS
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Acetone	<0.050	mg/L	6/22/2020	ALS
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Benzene	<0.00050	mg/L	6/22/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/22/2020	ALS
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Bromoform	<0.0010	mg/L	6/22/2020	ALS
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Bromomethane	<0.001	mg/L	6/22/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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Chloroethane	<0.001	mg/L	6/22/2020	ALS
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Chloroform	<0.00050	mg/L	6/22/2020	ALS
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Chloromethane	<0.005	mg/L	6/22/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/22/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/22/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/22/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/22/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/22/2020	ALS
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o-Xylene	<0.0005	mg/L	6/22/2020	ALS
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Styrene	<0.0010	mg/L	6/22/2020	ALS
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Toluene	<0.00050	mg/L	6/22/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/22/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/22/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	<0.001	mg/L	6/22/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/22/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/22/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	98.600	%	6/22/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/22/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/22/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/22/2020	ALS

Sample No. : 308523
Sample Description : GWQ36-WD25
Sample Date : June 11, 2020
Sample Received : June 11, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	267 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, total to pH 4.5	267 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.110 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	44.3 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	99.2 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/18/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	798 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.66 ± 0.07 units	units		6/11/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	441 ± 6.5%	mg/L		6/14/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	702 ± 6.2%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	261.0	mg/L		6/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	17.2 ± 13%	mg/L		7/13/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	17.7 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0023 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	0.1130 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	61.11 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0352 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	55.69 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.01403 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	<0.00008 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	5.921 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	42.23 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0018 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0035 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.02755 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.001498 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.002214 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.027499 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.08453 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	52.278 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00075 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000194 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.30311 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.000130 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	45.374 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.01274 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000397 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	3.990 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00089 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	34.252 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.001692 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.01626 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	131	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	317	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.91 ± 4.4%	NTU	6/11/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	46.700	mg/L	6/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	81.60	mg/L	6/22/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/22/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/22/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/22/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/22/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/22/2020	ALS
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Surrogate: 1,4-Difluorobenzene	94.1	%	6/22/2020	ALS
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Acetone	<0.050	mg/L	6/22/2020	ALS
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Benzene	<0.00050	mg/L	6/22/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/22/2020	ALS
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Bromoform	<0.0010	mg/L	6/22/2020	ALS
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Bromomethane	<0.001	mg/L	6/22/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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Chloroethane	<0.001	mg/L	6/22/2020	ALS
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Chloroform	<0.00050	mg/L	6/22/2020	ALS
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Chloromethane	<0.005	mg/L	6/22/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/22/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/22/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/22/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/22/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/22/2020	ALS
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o-Xylene	<0.0005	mg/L	6/22/2020	ALS
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Styrene	<0.0010	mg/L	6/22/2020	ALS
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Toluene	<0.00050	mg/L	6/22/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/22/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/22/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	<0.001	mg/L	6/22/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/22/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/22/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	98.300	%	6/22/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/22/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/22/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/22/2020	ALS

Sample No. : 308524
Sample Description : GWQ36-WD26
Sample Date : June 11, 2020
Sample Received : June 11, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	277 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, total to pH 4.5	277 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.170 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.3	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.3 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	88.4 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	150 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/18/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1010 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.68 ± 0.07 units	units		6/11/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	598 ± 6.5%	mg/L		6/14/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	646 ± 6.2%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	48.0	mg/L		6/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	4.9 ± 13%	mg/L		7/13/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	4.9 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0006 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	0.1785 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	70.06 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	0.00045 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0080 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	66.85 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.01866 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	0.00198 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	8.236 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	68.87 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	1.464 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00656 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.002968 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.000719 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.027134 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.13923 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	63.385 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00109 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.002802 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.54145 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.001006 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	58.056 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.01754 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.002760 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.0054	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	6.183 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00041 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	57.279 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.000049 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	1.1564 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	158	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	397	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	5.31 ± 4.4%	NTU	6/11/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	89.100	mg/L	6/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	131.00	mg/L	6/22/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/22/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/22/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/22/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/22/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/22/2020	ALS
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Surrogate: 1,4-Difluorobenzene	94.6	%	6/22/2020	ALS
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Acetone	<0.050	mg/L	6/22/2020	ALS
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Benzene	<0.00050	mg/L	6/22/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/22/2020	ALS
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Bromoform	<0.0010	mg/L	6/22/2020	ALS
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Bromomethane	<0.001	mg/L	6/22/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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Chloroethane	<0.001	mg/L	6/22/2020	ALS
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Chloroform	0.00214	mg/L	6/22/2020	ALS
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Chloromethane	<0.005	mg/L	6/22/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/22/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/22/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/22/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/22/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/22/2020	ALS
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o-Xylene	<0.0005	mg/L	6/22/2020	ALS
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Styrene	<0.0010	mg/L	6/22/2020	ALS
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Toluene	<0.00050	mg/L	6/22/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/22/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	0.0021	mg/L	6/22/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	<0.001	mg/L	6/22/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/22/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/22/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	98.700	%	6/22/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/22/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/22/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/22/2020	ALS

Sample No. : 308525
Sample Description : GWQ36-100
Sample Date : June 15, 2020
Sample Received : June 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	184 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	184 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.191 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.4 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	61.7 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	102 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	855 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.58 ± 0.07 units	units		6/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	552 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	592 ± 6.2%	mg/L		6/19/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	40.0	mg/L		6/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	3.2 ± 13%	mg/L		7/13/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	6.5 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0139 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0018 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	0.1251 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	63.53 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	0.00005 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0239 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	0.00016 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	56.74 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.01198 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	<0.00008 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	5.643 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	58.91 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0024 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.1608 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.09165 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.001801 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.001778 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.025696 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.09359 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	0.000026 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	61.141 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00091 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000801 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.30577 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.002622 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	51.247 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.01910 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000758 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.0313	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	4.455 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00050 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	48.690 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.002491 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	1.2236 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	153	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	364	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	16.80 ± 4.4%	NTU	6/15/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	67.500	mg/L	6/25/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	100.00	mg/L	6/25/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/25/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/25/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/25/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/25/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/25/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/25/2020	ALS
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Surrogate: 1,4-Difluorobenzene	100.4	%	6/25/2020	ALS
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Acetone	<0.050	mg/L	6/25/2020	ALS
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Benzene	<0.00050	mg/L	6/25/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/25/2020	ALS
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Bromoform	<0.0010	mg/L	6/25/2020	ALS
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Bromomethane	<0.001	mg/L	6/25/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/25/2020	ALS
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Chloroethane	<0.001	mg/L	6/25/2020	ALS
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Chloroform	<0.00050	mg/L	6/25/2020	ALS
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Chloromethane	<0.005	mg/L	6/25/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/25/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/25/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/25/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/25/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/25/2020	ALS
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o-Xylene	<0.0005	mg/L	6/25/2020	ALS
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Styrene	<0.0010	mg/L	6/25/2020	ALS
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Toluene	<0.00050	mg/L	6/25/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/25/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/25/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/25/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/25/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	6/25/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	>2420	MPN/100mL	6/25/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	>2420	MPN/100mL	6/25/2020	ALS
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Total Coliforms by QT97	>2420	MPN/100mL	6/25/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/25/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	106.800	%	6/25/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	6/25/2020	ALS
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Fraction 3 (C16-C34)	0.390	mg/L	6/25/2020	ALS
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Fraction 4 (C34-C50)	0.850	mg/L	6/25/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/25/2020	ALS
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Total Hydrocarbons (C6-C50)	1.24	mg/L	6/25/2020	ALS
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Sample No. : 308526
Sample Description : GWQ36-101
Sample Date : June 11, 2020
Sample Received : June 11, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	267 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, total to pH 4.5	267 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.112 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	0.5 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	90.1 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/18/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	780 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.62 ± 0.07 units	units		6/11/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	445 ± 6.5%	mg/L		6/14/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	504 ± 6.2%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	59.0	mg/L		6/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	3.1 ± 13%	mg/L		7/13/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	19.4 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	0.0023 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	0.1132 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	59.24 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	0.0302 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	54.94 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.01427 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	<0.00008 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	5.913 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	43.36 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	0.0018 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0042 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00420 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.001283 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	0.002241 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.027138 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	0.08476 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	52.351 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00056 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000336 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.27763 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	0.000115 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	44.619 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.01265 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000591 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	4.079 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00034 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	36.000 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	0.001692 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.01429 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	131	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	315	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	4.07 ± 4.4%	NTU	6/11/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	46.600	mg/L	6/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	81.50	mg/L	6/22/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/22/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/22/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/22/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/22/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/22/2020	ALS
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Surrogate: 1,4-Difluorobenzene	94.1	%	6/22/2020	ALS
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Acetone	<0.050	mg/L	6/22/2020	ALS
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Benzene	<0.00050	mg/L	6/22/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/22/2020	ALS
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Bromoform	<0.0010	mg/L	6/22/2020	ALS
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Bromomethane	<0.001	mg/L	6/22/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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Chloroethane	<0.001	mg/L	6/22/2020	ALS
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Chloroform	<0.00050	mg/L	6/22/2020	ALS
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Chloromethane	<0.005	mg/L	6/22/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/22/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/22/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/22/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/22/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/22/2020	ALS
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o-Xylene	<0.0005	mg/L	6/22/2020	ALS
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Styrene	<0.0010	mg/L	6/22/2020	ALS
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Toluene	<0.00050	mg/L	6/22/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/22/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)				
Total Trihalomethanes (THMs)	<0.0013	mg/L	6/22/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	<0.001	mg/L	6/22/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/22/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/22/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	98.000	%	6/22/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/22/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/22/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/22/2020	ALS

Sample No. : 308527
Sample Description : GWQ36-Field Blank
Sample Date : June 11, 2020
Sample Received : June 11, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	3.5 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, total to pH 4.5	3.5 ± 2.8%	mg/L		6/12/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/12/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	<0.003 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		7/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/13/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		6/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	0.5 ± 10%	mg/L		6/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/18/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6.5 ± 7.2%	uS		6/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.68 ± 0.07 units	units		6/11/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	7 ± 6.5%	mg/L		6/14/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	4 ± 6.2%	mg/L		6/13/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	<3.0	mg/L		6/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	22.8 ± 13%	mg/L		7/13/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	26.6 ± 13%	mg/L		7/13/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	6/24/2020	COW_ASB
Arsenic (As), soluble in water	<0.0002 ± 8.1%	mg/L	6/24/2020	COW_ASB
Boron (B), soluble in water	<0.0003 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	<0.039 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	<0.0016 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	0.0037 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	<0.00001 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	<0.00008 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	0.047 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	1.276 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	0.0010 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00532 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	0.000588 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.000190 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	0.033 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00111 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000324 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.01636 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	0.011 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.00014 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000454 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	0.0035	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	0.003 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00022 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	1.015 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.00510 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	<0.4	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	<0.4	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.37 ± 4.4%	NTU	6/11/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	<0.500	mg/L	6/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<0.30	mg/L	6/22/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/22/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/22/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/22/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/22/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/22/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/22/2020	ALS
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Surrogate: 1,4-Difluorobenzene	93.0	%	6/22/2020	ALS
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Acetone	<0.050	mg/L	6/22/2020	ALS
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Benzene	<0.00050	mg/L	6/22/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/22/2020	ALS
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Bromoform	<0.0010	mg/L	6/22/2020	ALS
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Bromomethane	<0.001	mg/L	6/22/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/22/2020	ALS
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Chloroethane	<0.001	mg/L	6/22/2020	ALS
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Chloroform	0.00398	mg/L	6/22/2020	ALS
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Chloromethane	<0.005	mg/L	6/22/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/22/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/22/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/22/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/22/2020	ALS
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Methytertbutylether [MTBE]	<0.0005	mg/L	6/22/2020	ALS
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o-Xylene	<0.0005	mg/L	6/22/2020	ALS
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Styrene	<0.0010	mg/L	6/22/2020	ALS
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Toluene	<0.00050	mg/L	6/22/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/22/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/22/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0040	mg/L	6/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	6/22/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	6/22/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	6/22/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/22/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	6/22/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	98.200	%	6/22/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	6/22/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	6/22/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	6/22/2020	ALS
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Sample No. : 308528
Sample Description : GWQ36-Trip Blank
Sample Date : June 16, 2020
Sample Received : June 16, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, total to pH 4.5	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		6/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.003 ± 16.9%	mg/L		6/18/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		6/18/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		6/18/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		7/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/16/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		6/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	0.4 ± 10%	mg/L		6/20/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		6/24/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2.0 ± 7.2%	uS		6/21/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	5.74 ± 0.07 units	units		6/16/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	20 ± 6.5%	mg/L		6/21/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	100.0	mg/L		6/24/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	4.6 ± 13%	mg/L		7/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	21.7 ± 13%	mg/L		7/16/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		6/24/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		6/24/2020	COW_ASB
Arsenic (As), soluble in water	<0.0002 ± 8.1%	mg/L		6/24/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Boron (B), soluble in water	<0.0003 ± 24.2%	mg/L	6/24/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	6/24/2020	COW_ASB
Calcium (Ca), soluble in water	<0.039 ± 20.9%	mg/L	6/24/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	6/24/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	6/24/2020	COW_ASB
Iron (Fe), soluble in water	<0.0016 ± 9.7%	mg/L	6/24/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	6/24/2020	COW_ASB
Magnesium (Mg), soluble in water	<0.0024 ± 10.5%	mg/L	6/24/2020	COW_ASB
Manganese (Mn), soluble in water	0.00004 ± 11.2%	mg/L	6/24/2020	COW_ASB
Nickel (Ni), soluble in water	<0.00008 ± 12.2%	mg/L	6/24/2020	COW_ASB
Potassium (K), soluble in water	0.044 ± 18.3%	mg/L	6/24/2020	COW_ASB
Sodium (Na), soluble in water	0.221 ± 9.2%	mg/L	6/24/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	6/24/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	6/24/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00433 ± 9.8%	mg/L	7/4/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/4/2020	COW_ASB
Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L	7/4/2020	COW_ASB
Barium (Ba), total in water	0.000025 ± 11.8%	mg/L	7/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/4/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L	7/4/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/4/2020	COW_ASB
Calcium (Ca), total in water	0.030 ± 20.9%	mg/L	7/4/2020	COW_ASB
Chromium (Cr), total in water	0.00026 ± 12.8%	mg/L	7/4/2020	COW_ASB
Copper (Cu), total in water	0.000446 ± 12.1%	mg/L	7/4/2020	COW_ASB
Iron (Fe), total in water	0.00396 ± 9.7%	mg/L	7/4/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/4/2020	COW_ASB
Magnesium (Mg), total in water	0.010 ± 10.5%	mg/L	7/4/2020	COW_ASB
Manganese (Mn), total in water	0.00019 ± 11.2%	mg/L	7/4/2020	COW_ASB
Nickel (Ni), total in water	0.000308 ± 12.2%	mg/L	7/4/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/4/2020	COW_ASB
Potassium (K), total in water	0.026 ± 18.3%	mg/L	7/4/2020	COW_ASB
Selenium (Se), total in water	0.00087 ± 8.0%	mg/L	7/4/2020	COW_ASB
Sodium (Na), total in water	0.228 ± 9.2%	mg/L	7/4/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	7/4/2020	COW_ASB
Zinc (Zn), total in water	0.00855 ± 10.7%	mg/L	7/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	<0.4	mg/L	7/16/2020	COW_ASB
Total Hardness, calculated in water	<0.4	mg/L	7/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.37 ± 4.4%	NTU	6/16/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	<0.500	mg/L	6/26/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<0.30	mg/L	6/26/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		6/26/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	6/26/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	6/26/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	6/26/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	6/26/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	6/26/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	6/26/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	6/26/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	6/26/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	6/26/2020	ALS
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Surrogate: 1,4-Difluorobenzene	94.4	%	6/26/2020	ALS
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Acetone	<0.050	mg/L	6/26/2020	ALS
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Benzene	<0.00050	mg/L	6/26/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	6/26/2020	ALS
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Bromoform	<0.0010	mg/L	6/26/2020	ALS
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Bromomethane	<0.001	mg/L	6/26/2020	ALS
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Chlorobenzene	<0.0010	mg/L	6/26/2020	ALS
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Chloroethane	<0.001	mg/L	6/26/2020	ALS
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Chloroform	<0.00050	mg/L	6/26/2020	ALS
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Chloromethane	<0.005	mg/L	6/26/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	6/26/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	6/26/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	6/26/2020	ALS
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Dichloromethane	<0.00500	mg/L	6/26/2020	ALS
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Ethylbenzene	<0.00050	mg/L	6/26/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	6/26/2020	ALS
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o-Xylene	<0.0005	mg/L	6/26/2020	ALS
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Styrene	<0.0010	mg/L	6/26/2020	ALS
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Toluene	<0.00050	mg/L	6/26/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	6/26/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	6/26/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	6/26/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	6/26/2020	ALS
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Phenol (4AAP)

Phenol (4AAP)				
Phenols (4AAP) in water	<0.001	mg/L	6/26/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	6/26/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	6/26/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	6/26/2020	ALS
Chromium +6				
Chromium +6 Hexavalent in water	<0.00050	mg/L	6/26/2020	ALS
CCME PHC F2-F4 in water				
Surrogate: 2-Bromobenzotrifluoride	107.100	%	6/26/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	6/26/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	6/26/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	6/26/2020	ALS
CCME Total Hydrocarbons				
Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	6/26/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	6/26/2020	ALS
Total Solids by Gravimetric Analysis				
Total Solid	120 ± 6.2%	mg/L	6/24/2020	COW_ASB

Reference Information

The Analytical Services Branch is accredited by CALA in accordance with ISO 17025 standards for specific tests.

Accredited Test Methods Used :

Test Method

- Alkalinity by Titration
- Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis
- COD by Closed Reflux Method
- Conductivity by Electrometric Method
- Dissolved Organic Carbon by High Temperature Combustion
- Dissolved Solids by Gravimetric Analysis
- Hardness, Calcium & Total by Calculation
- Metals Soluble in Water by ICP-MS
- Metals Total in Water by ICP-MS
- pH in Laboratory by Electrometric Method
- Total Kjeldahl Nitrogen Calculated
- Total Nitrogen by High Temperature Combustion
- Total Organic Carbon by High Temperature Combustion
- Total Solids by Gravimetric Analysis
- Total Suspended Solids by Gravimetric Analysis
- Turbidity in Laboratory by Nephelometric Method

Reference Method

- Modified from SM 2320 B. Titration Method
- Modified from SM 4500-NH3 H. NO3 I & P G. Flow Injection Analysis
- Modified from SM 5220 D. Closed Reflux, Colorimetric Method
- Modified from SM 2510 B. Laboratory Measurement
- Modified from SM 5310 B. High Temperature Combustion
- Modified from SM 2540 C. Total Dissolved Solids Dried at 180°C
- Calculated from EPA Methods 200.8
- Modified from EPA Methods 200.8
- Modified from EPA Methods 200.8
- Modified from SM 4500 H+B (Electrometric Method)
- Calculated from SM 5310 B. High Temperature Combustion and SM 4500-NO3 I. Flow Injection Analysis
- Modified from SM 5310 B. High Temperature Combustion
- Modified from SM 5310 B. High Temperature Combustion
- Modified from SM 2540 B. Total Solids Dried at 103-105°C
- Modified from SM 2540 D. Total Suspended Solids Dried at 103-105°C
- Modified from SM 2130 A. Turbidity & 2130 B. Nephelometric Method

Additional Test Methods Used :

Test Method

- Chloride by Mercuric Thiocyanate Method
- Sulfate by HACH Method

Reference Method

- Modified from SM 4500Cl-G Mercuric Thiocyanate & HACH Method 8113
- Modified from HACH Method 8051, SulfaVer 4, & SM 4500-SO4-2 E. Turbidimetric

Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4

COW_ASB : City of Winnipeg Main Laboratory at NEWPCC, 2230 Main Street, Winnipeg, MB R2V 4T8

Additional Comments :

- 1) A quality control report can be provided upon request. These reports may contain quality control results from other samples not included in this test report.
- 2) Analytical Services Branch test methods may incorporate modifications from specified reference methods to improve performance.
- 3) For subcontracted testing, the certificate of analysis can be provided upon request.
- 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

----- **END OF REPORT** -----



Report To :

Mr. Chris Kozak

Solid Waste Services Division
1120 Waverley Street
Winnipeg MB R3E 3S8

Report Date : December 11, 2020

Phone : 204-986-2384

Email : ckozak@winnipeg.ca

Certificate of Analysis Job No. 539

Date Authorised : December 11, 2020

Total Number of Pages : 94

This report is issued under the authority of :

Brock Bradford

Analytical Services Branch Head

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The results relate only to the sample(s) as received by the laboratory.

Additional information regarding the test methods used by Analytical Services Branch or contract laboratory is available upon request.

Sample No. : 313023
Sample Description : GWQ3-W1
Sample Date : July 16, 2020
Sample Received : July 16, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	296 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, total to pH 4.5	296 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.260 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.005 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.029 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/31/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	209 ± 6%	mg/L		7/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	139 ± 10%	mg/L		7/19/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		7/20/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1490 ± 7.2%	uS		7/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.44 ± 0.07 units	units		7/17/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	993 ± 6.5%	mg/L		7/23/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1060 ± 6.2%	mg/L		7/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	63.0	mg/L		7/23/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	6.6 ± 13%	mg/L		7/31/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	13.1 ± 13%	mg/L		7/31/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0023 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0021 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.2760 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	104.3 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	0.00013 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	0.00027 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.1472 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	110.2 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.01296 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00085 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	6.629 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	133.5 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0025 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0043 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00501 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.002179 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.016494 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.23868 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	85.649 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.00052 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.000263 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	0.24424 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	83.293 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.01266 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	<0.000021 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	5.852 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	-0.00025 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	103.93 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.002543 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.00715 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	214	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	557	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.95 ± 4.4%	NTU	7/17/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	181.000	mg/L	7/24/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	267.00	mg/L	7/24/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/24/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/24/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/24/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/24/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	102.400	%	7/24/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/24/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/24/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/24/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/24/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/24/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/24/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/24/2020	ALS
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Surrogate: 1,4-Difluorobenzene	99.5	%	7/24/2020	ALS
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Acetone	<0.050	mg/L	7/24/2020	ALS
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Benzene	<0.00050	mg/L	7/24/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/24/2020	ALS
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Bromoform	<0.0010	mg/L	7/24/2020	ALS
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Bromomethane	<0.001	mg/L	7/24/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/24/2020	ALS
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Chloroethane	<0.001	mg/L	7/24/2020	ALS
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Chloroform	<0.00050	mg/L	7/24/2020	ALS
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Chloromethane	<0.005	mg/L	7/24/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/24/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/24/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/24/2020	ALS
Dichloromethane	<0.00500	mg/L	7/24/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/24/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/24/2020	ALS
o-Xylene	<0.0005	mg/L	7/24/2020	ALS
Styrene	<0.0010	mg/L	7/24/2020	ALS
Toluene	<0.00050	mg/L	7/24/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/24/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/24/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/24/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	7/24/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	5	MPN/100mL	7/24/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	1	MPN/100mL	7/24/2020	ALS
Total Coliforms by QT97	1	MPN/100mL	7/24/2020	ALS

Sample No. : 313024
Sample Description : GWQ3-W2
Sample Date : July 16, 2020
Sample Received : July 16, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	298 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, total to pH 4.5	298 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.265 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.034 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/31/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	144 ± 6%	mg/L		7/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	110 ± 10%	mg/L		7/19/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		7/20/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1300 ± 7.2%	uS		7/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.43 ± 0.07 units	units		7/17/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	871 ± 6.5%	mg/L		7/23/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	926 ± 6.2%	mg/L		7/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	55.0	mg/L		7/23/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	8.2 ± 13%	mg/L		7/31/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	6.4 ± 13%	mg/L		7/31/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0118 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0019 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.2469 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	99.47 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	0.00006 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.1195 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	87.56 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.01500 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00066 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	6.247 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	118.5 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0019 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0030 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.02574 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.001845 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.015024 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.21851 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	84.907 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.00058 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.000720 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	0.24878 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	71.277 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.01650 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	<0.000021 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	6.074 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	0.00007 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	90.567 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.000994 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.00799 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	212	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	506	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	5.17 ± 4.4%	NTU	7/17/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	145.000	mg/L	7/24/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	229.00	mg/L	7/24/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/24/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/24/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/24/2020	ALS
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Total Hydrocarbons (C6-C50)	0.59	mg/L	7/24/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	104.600	%	7/24/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/24/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/24/2020	ALS
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Fraction 4 (C34-C50)	0.590	mg/L	7/24/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/24/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/24/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/24/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/24/2020	ALS
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Surrogate: 1,4-Difluorobenzene	99.3	%	7/24/2020	ALS
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Acetone	<0.050	mg/L	7/24/2020	ALS
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Benzene	<0.00050	mg/L	7/24/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/24/2020	ALS
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Bromoform	<0.0010	mg/L	7/24/2020	ALS
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Bromomethane	<0.001	mg/L	7/24/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/24/2020	ALS
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Chloroethane	<0.001	mg/L	7/24/2020	ALS
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Chloroform	<0.00050	mg/L	7/24/2020	ALS
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Chloromethane	<0.005	mg/L	7/24/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/24/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/24/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/24/2020	ALS
Dichloromethane	<0.00500	mg/L	7/24/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/24/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/24/2020	ALS
o-Xylene	<0.0005	mg/L	7/24/2020	ALS
Styrene	<0.0010	mg/L	7/24/2020	ALS
Toluene	<0.00050	mg/L	7/24/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/24/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/24/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/24/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	7/24/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/24/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	1	MPN/100mL	7/24/2020	ALS
Total Coliforms by QT97	1	MPN/100mL	7/24/2020	ALS

Sample No. : 313025
Sample Description : GWQ3-W3
Sample Date : July 16, 2020
Sample Received : July 16, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	634 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, total to pH 4.5	634 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.337 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.003 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.021 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/31/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	129 ± 6%	mg/L		7/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	132 ± 10%	mg/L		7/19/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	42.0 ± 6.1%	mg/L		7/20/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1310 ± 7.2%	uS		7/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.33 ± 0.07 units	units		7/17/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	948 ± 6.5%	mg/L		7/23/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	2350 ± 6.2%	mg/L		7/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	1404	mg/L		7/23/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	3.2 ± 13%	mg/L		7/31/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	4.9 ± 13%	mg/L		7/31/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.4165 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0019 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.2437 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	130.4 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	0.00124 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	0.00144 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.7383 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	0.00078 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	99.28 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.04302 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00202 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	6.280 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	116.4 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0011 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0056 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	6.8017 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.001589 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.092013 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.26428 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	321.43 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.01619 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.005827 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	10.658 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	0.011997 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	134.06 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.12943 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	0.012374 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	0.5843	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	7.156 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	0.00044 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	0.00092 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	88.544 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.002062 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.03255 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	803	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	1350	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	1355.00 ± 4.4%	NTU	7/17/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	125.000	mg/L	7/24/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	276.00	mg/L	7/24/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/24/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/24/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/24/2020	ALS
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Total Hydrocarbons (C6-C50)	0.87	mg/L	7/24/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	103.800	%	7/24/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/24/2020	ALS
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Fraction 3 (C16-C34)	0.580	mg/L	7/24/2020	ALS
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Fraction 4 (C34-C50)	0.290	mg/L	7/24/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/24/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/24/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/24/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/24/2020	ALS
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Surrogate: 1,4-Difluorobenzene	99.7	%	7/24/2020	ALS
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Acetone	<0.050	mg/L	7/24/2020	ALS
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Benzene	<0.00050	mg/L	7/24/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/24/2020	ALS
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Bromoform	<0.0010	mg/L	7/24/2020	ALS
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Bromomethane	<0.001	mg/L	7/24/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/24/2020	ALS
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Chloroethane	<0.001	mg/L	7/24/2020	ALS
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Chloroform	<0.00050	mg/L	7/24/2020	ALS
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Chloromethane	<0.005	mg/L	7/24/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/24/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/24/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/24/2020	ALS
Dichloromethane	<0.00500	mg/L	7/24/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/24/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/24/2020	ALS
o-Xylene	<0.0005	mg/L	7/24/2020	ALS
Styrene	<0.0010	mg/L	7/24/2020	ALS
Toluene	<0.00050	mg/L	7/24/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/24/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/24/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/24/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	7/24/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/24/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/24/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	7/24/2020	ALS

Sample No. : 313026
Sample Description : GWQ3-W4
Sample Date : July 21, 2020
Sample Received : July 21, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	315 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, total to pH 4.5	315 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/22/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.274 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.009 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.037 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/31/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	163 ± 6%	mg/L		7/26/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	300 ± 10%	mg/L		7/26/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		8/5/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1500 ± 7.2%	uS		7/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.42 ± 0.07 units	units		7/21/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1110 ± 6.5%	mg/L		7/25/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1560 ± 6.2%	mg/L		7/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	456.0	mg/L		7/25/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.3 ± 13%	mg/L		7/31/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	2.2 ± 13%	mg/L		7/31/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0034 ± 9.8%	mg/L		8/16/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	8/16/2020	COW_ASB
Arsenic (As), soluble in water	<0.0002 ± 8.1%	mg/L	8/16/2020	COW_ASB
Boron (B), soluble in water	0.3956 ± 24.2%	mg/L	8/16/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	8/16/2020	COW_ASB
Calcium (Ca), soluble in water	87.99 ± 20.9%	mg/L	8/16/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	8/16/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	8/16/2020	COW_ASB
Iron (Fe), soluble in water	0.0053 ± 9.7%	mg/L	8/16/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	8/16/2020	COW_ASB
Magnesium (Mg), soluble in water	81.21 ± 10.5%	mg/L	8/16/2020	COW_ASB
Manganese (Mn), soluble in water	0.00090 ± 11.2%	mg/L	8/16/2020	COW_ASB
Nickel (Ni), soluble in water	0.00354 ± 12.2%	mg/L	8/16/2020	COW_ASB
Potassium (K), soluble in water	8.448 ± 18.3%	mg/L	8/16/2020	COW_ASB
Sodium (Na), soluble in water	148.6 ± 9.2%	mg/L	8/16/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	8/16/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	8/16/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	1.0054 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.000935 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.022644 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.33032 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	95.866 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.00491 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.003188 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	2.0434 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	0.001146 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	70.698 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.03611 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	0.001313 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	0.0390	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	6.431 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	0.00036 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	-0.00020 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	121.63 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.002418 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.00846 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	239	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	531	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	104.00 ± 4.4%	NTU	7/21/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	178.000	mg/L	7/31/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	304.00	mg/L	7/31/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/31/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/31/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/31/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/31/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	89.700	%	7/31/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/31/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/31/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/31/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/31/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/31/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/31/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/31/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/31/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/31/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/31/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/31/2020	ALS
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Surrogate: 1,4-Difluorobenzene	99.4	%	7/31/2020	ALS
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Acetone	<0.050	mg/L	7/31/2020	ALS
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Benzene	<0.00050	mg/L	7/31/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/31/2020	ALS
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Bromoform	<0.0010	mg/L	7/31/2020	ALS
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Bromomethane	<0.001	mg/L	7/31/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/31/2020	ALS
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Chloroethane	<0.001	mg/L	7/31/2020	ALS
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Chloroform	<0.00050	mg/L	7/31/2020	ALS
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Chloromethane	<0.005	mg/L	7/31/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/31/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/31/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/31/2020	ALS
Dichloromethane	<0.00500	mg/L	7/31/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/31/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/31/2020	ALS
o-Xylene	<0.0005	mg/L	7/31/2020	ALS
Styrene	<0.0010	mg/L	7/31/2020	ALS
Toluene	<0.00050	mg/L	7/31/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/31/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/31/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/31/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/31/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	7/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/31/2020	ALS
Total Coliforms by QT97	1	MPN/100mL	7/31/2020	ALS

Sample No. : 313027
Sample Description : GWQ3-W5
Sample Date : July 21, 2020
Sample Received : July 21, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	301 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, total to pH 4.5	301 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/22/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.277 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.016 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.070 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/31/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	158 ± 6%	mg/L		7/26/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	294 ± 10%	mg/L		7/26/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	25.0 ± 6.1%	mg/L		8/5/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1440 ± 7.2%	uS		7/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.54 ± 0.07 units	units		7/21/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1080 ± 6.5%	mg/L		7/25/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1390 ± 6.2%	mg/L		7/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	302.0	mg/L		7/25/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.8 ± 13%	mg/L		7/31/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	2.7 ± 13%	mg/L		7/31/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0033 ± 9.8%	mg/L		8/16/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	8/16/2020	COW_ASB
Arsenic (As), soluble in water	<0.0002 ± 8.1%	mg/L	8/16/2020	COW_ASB
Boron (B), soluble in water	0.3031 ± 24.2%	mg/L	8/16/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	8/16/2020	COW_ASB
Calcium (Ca), soluble in water	89.67 ± 20.9%	mg/L	8/16/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	8/16/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	8/16/2020	COW_ASB
Iron (Fe), soluble in water	0.0033 ± 9.7%	mg/L	8/16/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	8/16/2020	COW_ASB
Magnesium (Mg), soluble in water	83.45 ± 10.5%	mg/L	8/16/2020	COW_ASB
Manganese (Mn), soluble in water	0.01611 ± 11.2%	mg/L	8/16/2020	COW_ASB
Nickel (Ni), soluble in water	0.00370 ± 12.2%	mg/L	8/16/2020	COW_ASB
Potassium (K), soluble in water	7.801 ± 18.3%	mg/L	8/16/2020	COW_ASB
Sodium (Na), soluble in water	138.9 ± 9.2%	mg/L	8/16/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	8/16/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	8/16/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	1.6695 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.001115 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.055536 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.26650 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	96.346 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.00482 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.002254 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	2.8948 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	0.002323 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	74.810 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.07654 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	0.002546 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	0.0533	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	6.310 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	0.00035 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	-0.00023 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	117.09 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.002702 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.01066 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	241	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	549	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	94.20 ± 4.4%	NTU	7/21/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	165.000	mg/L	7/31/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	313.00	mg/L	7/31/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/31/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/31/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/31/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/31/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	92.400	%	7/31/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/31/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/31/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/31/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/31/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/31/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/31/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/31/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/31/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/31/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/31/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/31/2020	ALS
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Surrogate: 1,4-Difluorobenzene	99.1	%	7/31/2020	ALS
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Acetone	<0.050	mg/L	7/31/2020	ALS
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Benzene	<0.00050	mg/L	7/31/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/31/2020	ALS
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Bromoform	<0.0010	mg/L	7/31/2020	ALS
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Bromomethane	<0.001	mg/L	7/31/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/31/2020	ALS
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Chloroethane	<0.001	mg/L	7/31/2020	ALS
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Chloroform	<0.00050	mg/L	7/31/2020	ALS
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Chloromethane	<0.005	mg/L	7/31/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/31/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/31/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/31/2020	ALS
Dichloromethane	<0.00500	mg/L	7/31/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/31/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/31/2020	ALS
o-Xylene	<0.0005	mg/L	7/31/2020	ALS
Styrene	<0.0010	mg/L	7/31/2020	ALS
Toluene	<0.00050	mg/L	7/31/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/31/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/31/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/31/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/31/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	7/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/31/2020	ALS
Total Coliforms by QT97	1	MPN/100mL	7/31/2020	ALS

Sample No. : 313028
Sample Description : GWQ8-W1
Sample Date : July 7, 2020
Sample Received : July 7, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	292 ± 2.8%	mg/L		7/8/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/8/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/8/2020	COW_ASB
Alkalinity, total to pH 4.5	292 ± 2.8%	mg/L		7/8/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/8/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.134 ± 16.9%	mg/L		12/11/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.007 ± 7.8%	mg/L		12/11/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		12/11/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.2	mg/L		8/11/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		8/5/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	54.2 ± 6%	mg/L		7/12/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	146 ± 10%	mg/L		7/12/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		7/10/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	959 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.45 ± 0.07 units	units		7/7/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	579 ± 6.5%	mg/L		7/11/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	652 ± 6.2%	mg/L		7/8/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	73.0	mg/L		7/16/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.2 ± 13%	mg/L		8/5/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	10.9 ± 13%	mg/L		8/5/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0018 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.1361 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	82.37 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.0070 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	67.81 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.03110 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00067 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	5.658 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	61.62 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0029 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.08351 ± 9.8%	mg/L	7/22/2020	COW_ASB
Antimony (Sb), total in water	0.000839 ± 9.2%	mg/L	7/22/2020	COW_ASB
Arsenic (As), total in water	0.001984 ± 8.1%	mg/L	7/22/2020	COW_ASB
Barium (Ba), total in water	0.025055 ± 11.8%	mg/L	7/22/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/22/2020	COW_ASB
Boron (B), total in water	0.13328 ± 24.2%	mg/L	7/22/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/22/2020	COW_ASB
Calcium (Ca), total in water	75.015 ± 20.9%	mg/L	7/22/2020	COW_ASB
Chromium (Cr), total in water	0.00136 ± 12.8%	mg/L	7/22/2020	COW_ASB
Copper (Cu), total in water	0.001276 ± 12.1%	mg/L	7/22/2020	COW_ASB
Iron (Fe), total in water	0.82723 ± 9.7%	mg/L	7/22/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/22/2020	COW_ASB
Magnesium (Mg), total in water	56.936 ± 10.5%	mg/L	7/22/2020	COW_ASB
Manganese (Mn), total in water	0.05933 ± 11.2%	mg/L	7/22/2020	COW_ASB
Nickel (Ni), total in water	<0.000021 ± 12.2%	mg/L	7/22/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/22/2020	COW_ASB
Potassium (K), total in water	4.767 ± 18.3%	mg/L	7/22/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/22/2020	COW_ASB
Silver (Ag), total in water	0.00021 ± 7.5%	mg/L	7/22/2020	COW_ASB
Sodium (Na), total in water	47.612 ± 9.2%	mg/L	7/22/2020	COW_ASB
Uranium (U), total in water	0.003223 ± 10.0%	mg/L	7/22/2020	COW_ASB
Zinc (Zn), total in water	0.00746 ± 10.7%	mg/L	7/22/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	187	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	422	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	12.00 ± 4.4%	NTU	7/7/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	59.400	mg/L	7/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	152.00	mg/L	7/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	116.100	%	7/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.0	%	7/20/2020	ALS
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Acetone	<0.050	mg/L	7/20/2020	ALS
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Benzene	<0.00050	mg/L	7/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/20/2020	ALS
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Bromoform	<0.0010	mg/L	7/20/2020	ALS
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Bromomethane	<0.001	mg/L	7/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/20/2020	ALS
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Chloroethane	<0.001	mg/L	7/20/2020	ALS
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Chloroform	<0.00050	mg/L	7/20/2020	ALS
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Chloromethane	<0.005	mg/L	7/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/20/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/20/2020	ALS
Dichloromethane	<0.00500	mg/L	7/20/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/20/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/20/2020	ALS
o-Xylene	<0.0005	mg/L	7/20/2020	ALS
Styrene	<0.0010	mg/L	7/20/2020	ALS
Toluene	<0.00050	mg/L	7/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.005	mg/L	7/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/20/2020	ALS
Total Coliforms by QT97	1	MPN/100mL	7/20/2020	ALS

Sample No. : 313029
Sample Description : GWQ8-W2
Sample Date : July 7, 2020
Sample Received : July 7, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	302 ± 2.8%	mg/L		7/8/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/8/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/8/2020	COW_ASB
Alkalinity, total to pH 4.5	302 ± 2.8%	mg/L		7/8/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/8/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.117 ± 16.9%	mg/L		12/11/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.004 ± 7.8%	mg/L		12/11/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		12/11/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.3	mg/L		8/11/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.3 ± 15%	mg/L		8/5/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	95.4 ± 6%	mg/L		7/12/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	151 ± 10%	mg/L		7/12/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		7/10/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1060 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.61 ± 0.07 units	units		7/7/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	603 ± 6.5%	mg/L		7/11/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	778 ± 6.2%	mg/L		7/8/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	175.0	mg/L		7/16/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	12.1 ± 13%	mg/L		8/5/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	15.3 ± 13%	mg/L		8/5/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0004 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.1499 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	72.04 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	<0.0016 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	74.24 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.00459 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00073 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	7.425 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	81.04 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0022 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.69690 ± 9.8%	mg/L	7/22/2020	COW_ASB
Antimony (Sb), total in water	0.001764 ± 9.2%	mg/L	7/22/2020	COW_ASB
Arsenic (As), total in water	0.000503 ± 8.1%	mg/L	7/22/2020	COW_ASB
Barium (Ba), total in water	0.028994 ± 11.8%	mg/L	7/22/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/22/2020	COW_ASB
Boron (B), total in water	0.12147 ± 24.2%	mg/L	7/22/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/22/2020	COW_ASB
Calcium (Ca), total in water	73.729 ± 20.9%	mg/L	7/22/2020	COW_ASB
Chromium (Cr), total in water	0.00205 ± 12.8%	mg/L	7/22/2020	COW_ASB
Copper (Cu), total in water	0.002839 ± 12.1%	mg/L	7/22/2020	COW_ASB
Iron (Fe), total in water	1.5782 ± 9.7%	mg/L	7/22/2020	COW_ASB
Lead (Pb), total in water	0.000782 ± 8.3%	mg/L	7/22/2020	COW_ASB
Magnesium (Mg), total in water	52.548 ± 10.5%	mg/L	7/22/2020	COW_ASB
Manganese (Mn), total in water	0.02966 ± 11.2%	mg/L	7/22/2020	COW_ASB
Nickel (Ni), total in water	0.001278 ± 12.2%	mg/L	7/22/2020	COW_ASB
Phosphorus (P), total in water	0.0188	mg/L	7/22/2020	COW_ASB
Potassium (K), total in water	6.306 ± 18.3%	mg/L	7/22/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/22/2020	COW_ASB
Silver (Ag), total in water	0.00022 ± 7.5%	mg/L	7/22/2020	COW_ASB
Sodium (Na), total in water	66.326 ± 9.2%	mg/L	7/22/2020	COW_ASB
Uranium (U), total in water	0.002370 ± 10.0%	mg/L	7/22/2020	COW_ASB
Zinc (Zn), total in water	0.01426 ± 10.7%	mg/L	7/22/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	184	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	401	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	54.50 ± 4.4%	NTU	7/7/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	97.000	mg/L	7/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	135.00	mg/L	7/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	116.800	%	7/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	98.4	%	7/20/2020	ALS
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Acetone	<0.050	mg/L	7/20/2020	ALS
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Benzene	<0.00050	mg/L	7/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/20/2020	ALS
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Bromoform	<0.0010	mg/L	7/20/2020	ALS
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Bromomethane	<0.001	mg/L	7/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/20/2020	ALS
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Chloroethane	<0.001	mg/L	7/20/2020	ALS
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Chloroform	<0.00050	mg/L	7/20/2020	ALS
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Chloromethane	<0.005	mg/L	7/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/20/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/20/2020	ALS
Dichloromethane	<0.00500	mg/L	7/20/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/20/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/20/2020	ALS
o-Xylene	<0.0005	mg/L	7/20/2020	ALS
Styrene	<0.0010	mg/L	7/20/2020	ALS
Toluene	<0.00050	mg/L	7/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	7/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/20/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	7/20/2020	ALS

Sample No. : 313030
Sample Description : GWQ10-W1
Sample Date : July 13, 2020
Sample Received : July 13, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	404 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, total to pH 4.5	404 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.166 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.004 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.024 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.4 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	345 ± 6%	mg/L		7/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	135 ± 10%	mg/L		7/19/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	25.0 ± 6.1%	mg/L		7/20/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2070 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.41 ± 0.07 units	units		7/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1220 ± 6.5%	mg/L		7/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1910 ± 6.2%	mg/L		7/18/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	690.0	mg/L		7/29/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	4.6 ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	6.3 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0041 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0007 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.4809 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	97.64 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.0030 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	91.30 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.01982 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00132 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	15.05 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	297.7 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0007 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	2.0208 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.001254 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.038190 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.39283 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	186.80 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.00531 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.004794 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	6.4421 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	0.003552 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	91.159 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.07974 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	0.005343 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	0.1989	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	10.900 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	0.00020 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	0.00041 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	234.39 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.001042 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.04346 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	466	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	842	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	19.40 ± 4.4%	NTU	7/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	358.000	mg/L	7/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	250.00	mg/L	7/17/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/17/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/17/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/17/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/17/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/17/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	101.900	%	7/17/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/17/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/17/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/17/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/17/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/17/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/17/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/17/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.7	%	7/17/2020	ALS
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Acetone	<0.050	mg/L	7/17/2020	ALS
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Benzene	<0.00050	mg/L	7/17/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/17/2020	ALS
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Bromoform	<0.0010	mg/L	7/17/2020	ALS
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Bromomethane	<0.001	mg/L	7/17/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/17/2020	ALS
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Chloroethane	<0.001	mg/L	7/17/2020	ALS
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Chloroform	<0.00050	mg/L	7/17/2020	ALS
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Chloromethane	<0.005	mg/L	7/17/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/17/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/17/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/17/2020	ALS
Dichloromethane	<0.00500	mg/L	7/17/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/17/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/17/2020	ALS
o-Xylene	<0.0005	mg/L	7/17/2020	ALS
Styrene	<0.0010	mg/L	7/17/2020	ALS
Toluene	<0.00050	mg/L	7/17/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/17/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/17/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	7/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/17/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	7/17/2020	ALS

Sample No. : 313031
Sample Description : GWQ10-W2
Sample Date : July 20, 2020
Sample Received : July 20, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	1870 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, total to pH 4.5	1870 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/22/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.055 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.029 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.206 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.9	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.9 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	567 ± 6%	mg/L		7/26/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	8110 ± 10%	mg/L		7/26/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	154 ± 6.1%	mg/L		7/22/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	16200 ± 7.2%	uS		7/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.25 ± 0.07 units	units		7/20/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	16900 ± 6.5%	mg/L		7/25/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	20200 ± 6.2%	mg/L		7/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	3339	mg/L		7/25/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	36.5 ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	42.6 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0288 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0013 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	12.22 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	0.000027 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	514.2 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	0.00052 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	0.00810 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.0149 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	1877 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.36650 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.04665 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	29.64 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	3217 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.1437 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0016 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	4.9800 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.001084 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.067458 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	9.7334 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	0.000139 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	515.81 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.01063 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.006676 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	6.5777 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	0.002421 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	1734.8 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.23780 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	0.041248 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	0.1959	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	18.463 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	0.00716 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	-0.00012 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	2944.6 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.17147 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.02232 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1290	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	8430	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	138.00 ± 4.4%	NTU	7/20/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2140.000	mg/L	7/31/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	8710.00	mg/L	7/31/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/31/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/31/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/31/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/31/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	87.000	%	7/31/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/31/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/31/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/31/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/31/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/31/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/31/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/31/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/31/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/31/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/31/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/31/2020	ALS
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Surrogate: 1,4-Difluorobenzene	99.0	%	7/31/2020	ALS
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Acetone	<0.050	mg/L	7/31/2020	ALS
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Benzene	<0.00050	mg/L	7/31/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/31/2020	ALS
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Bromoform	<0.0010	mg/L	7/31/2020	ALS
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Bromomethane	<0.001	mg/L	7/31/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/31/2020	ALS
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Chloroethane	<0.001	mg/L	7/31/2020	ALS
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Chloroform	<0.00050	mg/L	7/31/2020	ALS
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Chloromethane	<0.005	mg/L	7/31/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/31/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/31/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/31/2020	ALS
Dichloromethane	<0.00500	mg/L	7/31/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/31/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/31/2020	ALS
o-Xylene	<0.0005	mg/L	7/31/2020	ALS
Styrene	<0.0010	mg/L	7/31/2020	ALS
Toluene	<0.00050	mg/L	7/31/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/31/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/31/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/31/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/31/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.005	mg/L	7/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/31/2020	ALS
Total Coliforms by QT97	5	MPN/100mL	7/31/2020	ALS

Sample No. : 313032
Sample Description : GWQ10-W3
Sample Date : July 20, 2020
Sample Received : July 20, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	365 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, total to pH 4.5	365 ± 2.8%	mg/L		7/22/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/22/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.126 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.011 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.118 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.5	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.5 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	250 ± 6%	mg/L		7/26/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	194 ± 10%	mg/L		7/26/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	23.0 ± 6.1%	mg/L		7/22/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1710 ± 7.2%	uS		7/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.44 ± 0.07 units	units		7/20/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1090 ± 6.5%	mg/L		7/25/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	2880 ± 6.2%	mg/L		7/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	1783	mg/L		7/25/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	3.2 ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	3.2 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0166 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	<0.0002 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.3769 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	105.9 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	0.00004 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.0103 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	90.95 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.04929 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00098 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	12.11 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	236.4 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0018 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0009 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	6.2756 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.000905 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.069879 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.31912 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	102.56 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.01175 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.004506 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	8.1675 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	0.003671 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	80.725 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.06473 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	0.009951 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	0.1429	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	10.417 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	0.00057 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	-0.00017 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	191.86 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.002118 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.03144 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	256	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	589	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	262.00 ± 4.4%	NTU	7/20/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	282.000	mg/L	7/31/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	205.00	mg/L	7/31/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/31/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/31/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/31/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/31/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	90.000	%	7/31/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/31/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/31/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/31/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/31/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/31/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/31/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/31/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/31/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/31/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/31/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/31/2020	ALS
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Surrogate: 1,4-Difluorobenzene	100.0	%	7/31/2020	ALS
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Acetone	<0.050	mg/L	7/31/2020	ALS
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Benzene	<0.00050	mg/L	7/31/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/31/2020	ALS
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Bromoform	<0.0010	mg/L	7/31/2020	ALS
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Bromomethane	<0.001	mg/L	7/31/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/31/2020	ALS
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Chloroethane	<0.001	mg/L	7/31/2020	ALS
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Chloroform	<0.00050	mg/L	7/31/2020	ALS
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Chloromethane	<0.005	mg/L	7/31/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/31/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/31/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/31/2020	ALS
Dichloromethane	<0.00500	mg/L	7/31/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/31/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/31/2020	ALS
o-Xylene	<0.0005	mg/L	7/31/2020	ALS
Styrene	<0.0010	mg/L	7/31/2020	ALS
Toluene	<0.00050	mg/L	7/31/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/31/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/31/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/31/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/31/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	7/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/31/2020	ALS
Total Coliforms by QT97	1	MPN/100mL	7/31/2020	ALS

Sample No. : 313033
Sample Description : GWQ11-W1
Sample Date : July 14, 2020
Sample Received : July 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	617 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, total to pH 4.5	617 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.117 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.010 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.027 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.5	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.5 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	510 ± 6%	mg/L		7/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	482 ± 10%	mg/L		7/19/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	30.0 ± 6.1%	mg/L		7/20/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4260 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.16 ± 0.07 units	units		7/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1260 ± 6.5%	mg/L		7/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3610 ± 6.2%	mg/L		7/18/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	2350	mg/L		7/29/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	10. ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	8.3 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0047 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0007 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.2958 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	269.3 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	0.00005 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	0.00081 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.0028 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	359.3 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.13780 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.01014 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	11.18 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	391.4 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0504 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	3.1726 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.000920 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.042075 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.22432 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	0.000038 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	253.10 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.00651 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.004013 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	4.1874 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	0.002388 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	294.65 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.22060 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	0.013178 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	0.1266	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	8.673 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	0.00041 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	-0.00005 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	302.72 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.058842 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.01706 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	632	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	1850	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	152.00 ± 4.4%	NTU	7/15/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	480.000	mg/L	7/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	708.00	mg/L	7/22/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/22/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/22/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/22/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/22/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	103.800	%	7/22/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/22/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/22/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/22/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/22/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/22/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/22/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/22/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/22/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/22/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/22/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/22/2020	ALS
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Surrogate: 1,4-Difluorobenzene	100.1	%	7/22/2020	ALS
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Acetone	<0.050	mg/L	7/22/2020	ALS
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Benzene	<0.00050	mg/L	7/22/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/22/2020	ALS
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Bromoform	<0.0010	mg/L	7/22/2020	ALS
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Bromomethane	<0.001	mg/L	7/22/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/22/2020	ALS
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Chloroethane	<0.001	mg/L	7/22/2020	ALS
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Chloroform	<0.00050	mg/L	7/22/2020	ALS
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Chloromethane	<0.005	mg/L	7/22/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/22/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/22/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/22/2020	ALS
Dichloromethane	<0.00500	mg/L	7/22/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/22/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/22/2020	ALS
o-Xylene	<0.0005	mg/L	7/22/2020	ALS
Styrene	<0.0010	mg/L	7/22/2020	ALS
Toluene	<0.00050	mg/L	7/22/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/22/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/22/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	7/22/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/22/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/22/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	7/22/2020	ALS

Sample No. : 313034
Sample Description : GWQ11-W2
Sample Date : July 16, 2020
Sample Received : July 16, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	408 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, total to pH 4.5	408 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.399 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.015 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.036 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/31/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	362 ± 6%	mg/L		7/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	123 ± 10%	mg/L		7/19/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	26.0 ± 6.1%	mg/L		7/20/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2000 ± 7.2%	uS		7/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.38 ± 0.07 units	units		7/17/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1320 ± 6.5%	mg/L		7/23/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	2220 ± 6.2%	mg/L		7/18/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	901.0	mg/L		7/23/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.3 ± 13%	mg/L		7/31/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	4.4 ± 13%	mg/L		7/31/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0087 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0040 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.4478 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	150.4 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	0.00006 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.0332 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	127.1 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.01388 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00054 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	7.092 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	197.0 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0068 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0011 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	2.5152 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.003217 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.044667 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.38656 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	190.12 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.00626 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.002202 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	3.7487 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	0.002390 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	123.75 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.07615 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	0.003995 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	0.1462	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	6.376 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	0.00031 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	-0.00017 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	155.34 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.007784 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.01235 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	475	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	984	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	296.00 ± 4.4%	NTU	7/17/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	361.000	mg/L	7/24/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	259.00	mg/L	7/24/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/24/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/24/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/24/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/24/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	104.700	%	7/24/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/24/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/24/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/24/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/24/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/24/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/24/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/24/2020	ALS
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Surrogate: 1,4-Difluorobenzene	99.8	%	7/24/2020	ALS
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Acetone	<0.050	mg/L	7/24/2020	ALS
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Benzene	<0.00050	mg/L	7/24/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/24/2020	ALS
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Bromoform	<0.0010	mg/L	7/24/2020	ALS
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Bromomethane	<0.001	mg/L	7/24/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/24/2020	ALS
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Chloroethane	<0.001	mg/L	7/24/2020	ALS
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Chloroform	<0.00050	mg/L	7/24/2020	ALS
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Chloromethane	<0.005	mg/L	7/24/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/24/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/24/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/24/2020	ALS
Dichloromethane	<0.00500	mg/L	7/24/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/24/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/24/2020	ALS
o-Xylene	<0.0005	mg/L	7/24/2020	ALS
Styrene	<0.0010	mg/L	7/24/2020	ALS
Toluene	<0.00050	mg/L	7/24/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/24/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/24/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/24/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.007	mg/L	7/24/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/24/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/24/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	7/24/2020	ALS

Sample No. : 313035
Sample Description : GWQ11-W3
Sample Date : July 16, 2020
Sample Received : July 16, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	420 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, total to pH 4.5	420 ± 2.8%	mg/L		7/17/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/17/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.183 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.012 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.024 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		7/31/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	303 ± 6%	mg/L		7/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	99.0 ± 10%	mg/L		7/19/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	25.0 ± 6.1%	mg/L		7/20/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1730 ± 7.2%	uS		7/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.48 ± 0.07 units	units		7/17/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1100 ± 6.5%	mg/L		7/23/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1780 ± 6.2%	mg/L		7/18/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	686.0	mg/L		7/23/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.5 ± 13%	mg/L		7/31/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	3.7 ± 13%	mg/L		7/31/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	1.351 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0009 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.2288 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	138.2 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	0.00229 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	0.00110 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	1.371 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	0.00107 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	99.75 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.03228 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00256 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	11.14 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	223.0 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0033 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0073 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	2.7227 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.001404 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.043135 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.29111 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	160.30 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.00587 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.002831 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	4.5199 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	0.003090 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	101.58 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.07335 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	0.004929 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	0.1313	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	8.926 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	0.00023 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	-0.00001 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	165.42 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.003556 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.02032 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	400	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	819	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	339.00 ± 4.4%	NTU	7/17/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	298.000	mg/L	7/24/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	191.00	mg/L	7/24/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/24/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/24/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/24/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/24/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	104.100	%	7/24/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/24/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/24/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/24/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/24/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/24/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/24/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/24/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/24/2020	ALS
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Surrogate: 1,4-Difluorobenzene	100.4	%	7/24/2020	ALS
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Acetone	<0.050	mg/L	7/24/2020	ALS
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Benzene	<0.00050	mg/L	7/24/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/24/2020	ALS
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Bromoform	<0.0010	mg/L	7/24/2020	ALS
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Bromomethane	<0.001	mg/L	7/24/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/24/2020	ALS
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Chloroethane	<0.001	mg/L	7/24/2020	ALS
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Chloroform	<0.00050	mg/L	7/24/2020	ALS
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Chloromethane	<0.005	mg/L	7/24/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/24/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/24/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/24/2020	ALS
Dichloromethane	<0.00500	mg/L	7/24/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/24/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/24/2020	ALS
o-Xylene	<0.0005	mg/L	7/24/2020	ALS
Styrene	<0.0010	mg/L	7/24/2020	ALS
Toluene	<0.00050	mg/L	7/24/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/24/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/24/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/24/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.007	mg/L	7/24/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/24/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/24/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	7/24/2020	ALS

Sample No. : 313036
Sample Description : GWQ11-W4
Sample Date : July 14, 2020
Sample Received : July 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	349 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, total to pH 4.5	349 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.181 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.012 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.030 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.5 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	277 ± 6%	mg/L		7/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	127 ± 10%	mg/L		7/19/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	31.0 ± 6.1%	mg/L		7/20/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1910 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.53 ± 0.07 units	units		7/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1140 ± 6.5%	mg/L		7/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1660 ± 6.2%	mg/L		7/18/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	520.0	mg/L		7/29/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.0 ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	2.7 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0074 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0006 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.3943 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	102.2 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.0036 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	94.73 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.01581 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00080 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	12.79 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	240.9 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0032 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	6.4545 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.001106 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.085905 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.27215 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	0.000035 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	108.51 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.01254 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.005311 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	9.0664 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	0.004971 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	85.138 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.06122 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	0.010729 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	0.1916	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	9.978 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	0.00038 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	-0.00018 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	182.31 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.004197 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.03764 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	271	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	622	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	276.00 ± 4.4%	NTU	7/15/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	286.000	mg/L	7/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	223.00	mg/L	7/22/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/22/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/22/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/22/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/22/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	102.000	%	7/22/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/22/2020	ALS
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Fraction 3 (C16-C34)	0.280	mg/L	7/22/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/22/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/22/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/22/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/22/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/22/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/22/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/22/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/22/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/22/2020	ALS
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Surrogate: 1,4-Difluorobenzene	98.6	%	7/22/2020	ALS
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Acetone	<0.050	mg/L	7/22/2020	ALS
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Benzene	<0.00050	mg/L	7/22/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/22/2020	ALS
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Bromoform	<0.0010	mg/L	7/22/2020	ALS
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Bromomethane	<0.001	mg/L	7/22/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/22/2020	ALS
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Chloroethane	<0.001	mg/L	7/22/2020	ALS
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Chloroform	<0.00050	mg/L	7/22/2020	ALS
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Chloromethane	<0.005	mg/L	7/22/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/22/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/22/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/22/2020	ALS
Dichloromethane	<0.00500	mg/L	7/22/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/22/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/22/2020	ALS
o-Xylene	<0.0005	mg/L	7/22/2020	ALS
Styrene	<0.0010	mg/L	7/22/2020	ALS
Toluene	<0.00050	mg/L	7/22/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/22/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/22/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	7/22/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/22/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/22/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	7/22/2020	ALS

Sample No. : 313037
Sample Description : GWQ11-W5
Sample Date : July 14, 2020
Sample Received : July 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	332 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, total to pH 4.5	332 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.144 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.020 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.047 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.3	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.4 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	555 ± 6%	mg/L		7/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	122 ± 10%	mg/L		7/19/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		7/20/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1790 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.51 ± 0.07 units	units		7/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1050 ± 6.5%	mg/L		7/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1350 ± 6.2%	mg/L		7/18/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	298.0	mg/L		7/29/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	5.3 ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	3.1 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0006 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.3919 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	104.8 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	<0.0016 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	87.93 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.03088 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00068 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	12.41 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	235.1 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0019 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0056 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	1.3694 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.000821 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.029989 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.30189 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	101.00 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.00307 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.001712 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	2.0009 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	0.000949 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	71.894 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.04829 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	0.001590 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	0.0391	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	9.388 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	0.00035 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	-0.00022 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	181.64 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.002269 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.02033 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	252	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	548	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	83.70 ± 4.4%	NTU	7/15/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	271.000	mg/L	7/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	188.00	mg/L	7/22/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/22/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/22/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/22/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/22/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/22/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	103.200	%	7/22/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/22/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/22/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/22/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/22/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/22/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/22/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/22/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/22/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/22/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/22/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/22/2020	ALS
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Surrogate: 1,4-Difluorobenzene	95.4	%	7/22/2020	ALS
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Acetone	<0.050	mg/L	7/22/2020	ALS
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Benzene	<0.00050	mg/L	7/22/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/22/2020	ALS
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Bromoform	<0.0010	mg/L	7/22/2020	ALS
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Bromomethane	<0.001	mg/L	7/22/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/22/2020	ALS
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Chloroethane	<0.001	mg/L	7/22/2020	ALS
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Chloroform	<0.00050	mg/L	7/22/2020	ALS
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Chloromethane	<0.005	mg/L	7/22/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/22/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/22/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/22/2020	ALS
Dichloromethane	<0.00500	mg/L	7/22/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/22/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/22/2020	ALS
o-Xylene	<0.0005	mg/L	7/22/2020	ALS
Styrene	<0.0010	mg/L	7/22/2020	ALS
Toluene	<0.00050	mg/L	7/22/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/22/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/22/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/22/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	7/22/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/22/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/22/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	7/22/2020	ALS

Sample No. : 313038
Sample Description : GWQ13-W1
Sample Date : July 6, 2020
Sample Received : July 6, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	338 ± 2.8%	mg/L		7/8/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/8/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/8/2020	COW_ASB
Alkalinity, total to pH 4.5	338 ± 2.8%	mg/L		7/8/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/8/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.119 ± 16.9%	mg/L		12/11/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		12/11/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		12/11/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.4	mg/L		7/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.4 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	286 ± 6%	mg/L		7/12/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	190 ± 10%	mg/L		7/12/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	20.0 ± 6.1%	mg/L		7/10/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1680 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.49 ± 0.07 units	units		7/6/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	975 ± 6.5%	mg/L		7/11/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1730 ± 6.2%	mg/L		7/8/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	751.0	mg/L		7/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.9 ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	2.9 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.2503 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0002 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.3233 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	97.88 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	0.00091 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	0.00052 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.3646 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	0.00038 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	78.35 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.02850 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00127 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	10.86 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	233.9 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0018 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0054 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	2.9650 ± 9.8%	mg/L	7/22/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/22/2020	COW_ASB
Arsenic (As), total in water	0.000567 ± 8.1%	mg/L	7/22/2020	COW_ASB
Barium (Ba), total in water	0.039052 ± 11.8%	mg/L	7/22/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/22/2020	COW_ASB
Boron (B), total in water	0.21033 ± 24.2%	mg/L	7/22/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/22/2020	COW_ASB
Calcium (Ca), total in water	97.560 ± 20.9%	mg/L	7/22/2020	COW_ASB
Chromium (Cr), total in water	0.00700 ± 12.8%	mg/L	7/22/2020	COW_ASB
Copper (Cu), total in water	0.002728 ± 12.1%	mg/L	7/22/2020	COW_ASB
Iron (Fe), total in water	4.0635 ± 9.7%	mg/L	7/22/2020	COW_ASB
Lead (Pb), total in water	0.003611 ± 8.3%	mg/L	7/22/2020	COW_ASB
Magnesium (Mg), total in water	41.964 ± 10.5%	mg/L	7/22/2020	COW_ASB
Manganese (Mn), total in water	0.04990 ± 11.2%	mg/L	7/22/2020	COW_ASB
Nickel (Ni), total in water	0.004990 ± 12.2%	mg/L	7/22/2020	COW_ASB
Phosphorus (P), total in water	0.0335	mg/L	7/22/2020	COW_ASB
Potassium (K), total in water	10.231 ± 18.3%	mg/L	7/22/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/22/2020	COW_ASB
Silver (Ag), total in water	0.00003 ± 7.5%	mg/L	7/22/2020	COW_ASB
Sodium (Na), total in water	171.12 ± 9.2%	mg/L	7/22/2020	COW_ASB
Uranium (U), total in water	0.002062 ± 10.0%	mg/L	7/22/2020	COW_ASB
Zinc (Zn), total in water	0.01765 ± 10.7%	mg/L	7/22/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	244	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	416	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	238.00 ± 4.4%	NTU	7/6/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	252.000	mg/L	7/14/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	194.00	mg/L	7/14/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/14/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/14/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/14/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/14/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/14/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	114.400	%	7/14/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/14/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/14/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/14/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/14/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/14/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/14/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/14/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/14/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/14/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/14/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/14/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.6	%	7/14/2020	ALS
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Acetone	<0.050	mg/L	7/14/2020	ALS
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Benzene	<0.00050	mg/L	7/14/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/14/2020	ALS
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Bromoform	<0.0010	mg/L	7/14/2020	ALS
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Bromomethane	<0.001	mg/L	7/14/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/14/2020	ALS
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Chloroethane	<0.001	mg/L	7/14/2020	ALS
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Chloroform	<0.00050	mg/L	7/14/2020	ALS
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Chloromethane	<0.005	mg/L	7/14/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/14/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/14/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/14/2020	ALS
Dichloromethane	<0.00500	mg/L	7/14/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/14/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/14/2020	ALS
o-Xylene	<0.0005	mg/L	7/14/2020	ALS
Styrene	<0.0010	mg/L	7/14/2020	ALS
Toluene	<0.00050	mg/L	7/14/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/14/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/14/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/14/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/14/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	7/14/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/14/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/14/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	7/14/2020	ALS

Sample No. : 313039
Sample Description : GWQ13-W2
Sample Date : July 8, 2020
Sample Received : July 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	644 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, total to pH 4.5	644 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.229 ± 16.9%	mg/L		12/11/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.004 ± 7.8%	mg/L		12/11/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.016 ± 7.5%	mg/L		12/11/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.5	mg/L		7/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.5 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	272 ± 6%	mg/L		7/12/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	223 ± 10%	mg/L		7/12/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	31.0 ± 6.1%	mg/L		7/10/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1660 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.57 ± 0.07 units	units		7/8/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	952 ± 6.5%	mg/L		7/11/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1990 ± 6.2%	mg/L		7/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	1038	mg/L		7/15/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	5.3 ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	22.3 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.3108 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0011 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.2740 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	106.9 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	0.00096 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	0.00093 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.8206 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	0.00055 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	79.49 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.03726 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00146 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	9.469 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	226.6 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0013 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0054 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	8.3404 ± 9.8%	mg/L	7/22/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/22/2020	COW_ASB
Arsenic (As), total in water	0.001175 ± 8.1%	mg/L	7/22/2020	COW_ASB
Barium (Ba), total in water	0.076961 ± 11.8%	mg/L	7/22/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/22/2020	COW_ASB
Boron (B), total in water	0.11351 ± 24.2%	mg/L	7/22/2020	COW_ASB
Cadmium (Cd), total in water	0.000057 ± 10.4%	mg/L	7/22/2020	COW_ASB
Calcium (Ca), total in water	219.66 ± 20.9%	mg/L	7/22/2020	COW_ASB
Chromium (Cr), total in water	0.01405 ± 12.8%	mg/L	7/22/2020	COW_ASB
Copper (Cu), total in water	0.004472 ± 12.1%	mg/L	7/22/2020	COW_ASB
Iron (Fe), total in water	8.7967 ± 9.7%	mg/L	7/22/2020	COW_ASB
Lead (Pb), total in water	0.007565 ± 8.3%	mg/L	7/22/2020	COW_ASB
Magnesium (Mg), total in water	41.064 ± 10.5%	mg/L	7/22/2020	COW_ASB
Manganese (Mn), total in water	0.10444 ± 11.2%	mg/L	7/22/2020	COW_ASB
Nickel (Ni), total in water	0.009250 ± 12.2%	mg/L	7/22/2020	COW_ASB
Phosphorus (P), total in water	0.0653	mg/L	7/22/2020	COW_ASB
Potassium (K), total in water	10.083 ± 18.3%	mg/L	7/22/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/22/2020	COW_ASB
Silver (Ag), total in water	0.00109 ± 7.5%	mg/L	7/22/2020	COW_ASB
Sodium (Na), total in water	183.38 ± 9.2%	mg/L	7/22/2020	COW_ASB
Uranium (U), total in water	0.002567 ± 10.0%	mg/L	7/22/2020	COW_ASB
Zinc (Zn), total in water	0.03103 ± 10.7%	mg/L	7/22/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	549	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	718	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	1088.00 ± 4.4%	NTU	7/8/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	247.000	mg/L	7/15/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	210.00	mg/L	7/15/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/15/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/15/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/15/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/15/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/15/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	118.100	%	7/15/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/15/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/15/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/15/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/15/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/15/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/15/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/15/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/15/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/15/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/15/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/15/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.5	%	7/15/2020	ALS
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Acetone	<0.050	mg/L	7/15/2020	ALS
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Benzene	<0.00050	mg/L	7/15/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/15/2020	ALS
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Bromoform	<0.0010	mg/L	7/15/2020	ALS
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Bromomethane	<0.001	mg/L	7/15/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/15/2020	ALS
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Chloroethane	<0.001	mg/L	7/15/2020	ALS
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Chloroform	<0.00050	mg/L	7/15/2020	ALS
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Chloromethane	<0.005	mg/L	7/15/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/15/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/15/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/15/2020	ALS
Dichloromethane	<0.00500	mg/L	7/15/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/15/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/15/2020	ALS
o-Xylene	<0.0005	mg/L	7/15/2020	ALS
Styrene	<0.0010	mg/L	7/15/2020	ALS
Toluene	<0.00050	mg/L	7/15/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/15/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/15/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/15/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/15/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	7/15/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/15/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/15/2020	ALS
Total Coliforms by QT97	2	MPN/100mL	7/15/2020	ALS

Sample No. : 313040
Sample Description : GWQ14-W1
Sample Date : July 9, 2020
Sample Received : July 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	395 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, total to pH 4.5	395 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.3	mg/L		7/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.4 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	232 ± 6%	mg/L		7/12/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	178 ± 10%	mg/L		7/12/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		7/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1610 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.40 ± 0.07 units	units		7/10/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	919 ± 6.5%	mg/L		7/11/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	994 ± 6.2%	mg/L		7/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	75.0	mg/L		7/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	4.2 ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	3.2 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0090 ± 9.8%	mg/L		7/23/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0003 ± 8.1%	mg/L		7/23/2020	COW_ASB
Boron (B), soluble in water	0.3968 ± 24.2%	mg/L		7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	101.9 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.1469 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	84.22 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.02131 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00045 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	15.01 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	193.9 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0011 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0015 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.11549 ± 9.8%	mg/L	7/22/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/22/2020	COW_ASB
Arsenic (As), total in water	0.000310 ± 8.1%	mg/L	7/22/2020	COW_ASB
Barium (Ba), total in water	0.019817 ± 11.8%	mg/L	7/22/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/22/2020	COW_ASB
Boron (B), total in water	0.38392 ± 24.2%	mg/L	7/22/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/22/2020	COW_ASB
Calcium (Ca), total in water	88.543 ± 20.9%	mg/L	7/22/2020	COW_ASB
Chromium (Cr), total in water	0.00105 ± 12.8%	mg/L	7/22/2020	COW_ASB
Copper (Cu), total in water	0.000721 ± 12.1%	mg/L	7/22/2020	COW_ASB
Iron (Fe), total in water	0.30975 ± 9.7%	mg/L	7/22/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/22/2020	COW_ASB
Magnesium (Mg), total in water	69.014 ± 10.5%	mg/L	7/22/2020	COW_ASB
Manganese (Mn), total in water	0.02543 ± 11.2%	mg/L	7/22/2020	COW_ASB
Nickel (Ni), total in water	<0.000021 ± 12.2%	mg/L	7/22/2020	COW_ASB
Phosphorus (P), total in water	0.0040	mg/L	7/22/2020	COW_ASB
Potassium (K), total in water	11.957 ± 18.3%	mg/L	7/22/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/22/2020	COW_ASB
Silver (Ag), total in water	-0.00012 ± 7.5%	mg/L	7/22/2020	COW_ASB
Sodium (Na), total in water	151.23 ± 9.2%	mg/L	7/22/2020	COW_ASB
Uranium (U), total in water	0.001050 ± 10.0%	mg/L	7/22/2020	COW_ASB
Zinc (Zn), total in water	0.00459 ± 10.7%	mg/L	7/22/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	221	mg/L	7/29/2020	COW_ASB
Total Hardness, calculated in water	505	mg/L	7/29/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	19.80 ± 4.4%	NTU	7/10/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	209.000	mg/L	7/16/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	183.00	mg/L	7/16/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/16/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/16/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/16/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/16/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/16/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	95.700	%	7/16/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/16/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/16/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/16/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/16/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/16/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/16/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/16/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/16/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/16/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/16/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/16/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.5	%	7/16/2020	ALS
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Acetone	<0.050	mg/L	7/16/2020	ALS
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Benzene	<0.00050	mg/L	7/16/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/16/2020	ALS
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Bromoform	<0.0010	mg/L	7/16/2020	ALS
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Bromomethane	<0.001	mg/L	7/16/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/16/2020	ALS
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Chloroethane	<0.001	mg/L	7/16/2020	ALS
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Chloroform	<0.00050	mg/L	7/16/2020	ALS
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Chloromethane	<0.005	mg/L	7/16/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/16/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/16/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	7/16/2020	ALS
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Dichloromethane	<0.00500	mg/L	7/16/2020	ALS
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Ethylbenzene	<0.00050	mg/L	7/16/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	7/16/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	7/16/2020	ALS
Styrene	<0.0010	mg/L	7/16/2020	ALS
Toluene	<0.00050	mg/L	7/16/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/16/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/16/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/16/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/16/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	7/16/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/16/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/16/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	7/16/2020	ALS
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Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, Low	0.091 ± 16.9%	mg/L	7/13/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	7/13/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L	7/13/2020	COW_ASB

Sample No. : 313041
Sample Description : GWQ14-W2
Sample Date : July 13, 2020
Sample Received : July 13, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	373 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, total to pH 4.5	373 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.138 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.006 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.036 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.3	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.3 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	206 ± 6%	mg/L		7/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	103 ± 10%	mg/L		7/19/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		7/20/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1620 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.38 ± 0.07 units	units		7/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	940 ± 6.5%	mg/L		7/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1110 ± 6.2%	mg/L		7/18/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	168.0	mg/L		7/29/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.8 ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	11.1 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0018 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0005 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.4143 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	99.21 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.0121 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	79.94 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.02005 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00040 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	15.13 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	196.8 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0007 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.06881 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	0.000163 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.000615 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.019669 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.33132 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	83.931 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.00136 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.001376 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	0.94312 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	61.517 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.02387 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	<0.000021 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	10.922 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	-0.00010 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	155.13 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.001023 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.00725 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	210	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	463	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	20.80 ± 4.4%	NTU	7/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	209.000	mg/L	7/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	176.00	mg/L	7/17/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/17/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/17/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/17/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/17/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/17/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	97.700	%	7/17/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/17/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/17/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/17/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/17/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/17/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/17/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/17/2020	ALS
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Surrogate: 1,4-Difluorobenzene	98.4	%	7/17/2020	ALS
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Acetone	<0.050	mg/L	7/17/2020	ALS
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Benzene	<0.00050	mg/L	7/17/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/17/2020	ALS
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Bromoform	<0.0010	mg/L	7/17/2020	ALS
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Bromomethane	<0.001	mg/L	7/17/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/17/2020	ALS
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Chloroethane	<0.001	mg/L	7/17/2020	ALS
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Chloroform	<0.00050	mg/L	7/17/2020	ALS
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Chloromethane	<0.005	mg/L	7/17/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/17/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/17/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/17/2020	ALS
Dichloromethane	<0.00500	mg/L	7/17/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/17/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/17/2020	ALS
o-Xylene	<0.0005	mg/L	7/17/2020	ALS
Styrene	<0.0010	mg/L	7/17/2020	ALS
Toluene	<0.00050	mg/L	7/17/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/17/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/17/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	7/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/17/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	7/17/2020	ALS

Sample No. : 313042
Sample Description : GWQ14-W3
Sample Date : July 13, 2020
Sample Received : July 13, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	375 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, total to pH 4.5	375 ± 2.8%	mg/L		7/15/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/15/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.074 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.011 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.020 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.3	mg/L		8/4/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.3 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	232 ± 6%	mg/L		7/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	112 ± 10%	mg/L		7/19/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		7/20/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1640 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.32 ± 0.07 units	units		7/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	957 ± 6.5%	mg/L		7/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1030 ± 6.2%	mg/L		7/21/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	71.0	mg/L		7/29/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	7.5 ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	2.3 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0033 ± 9.8%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0003 ± 8.1%	mg/L	7/23/2020	COW_ASB
Boron (B), soluble in water	0.4239 ± 24.2%	mg/L	7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	7/23/2020	COW_ASB
Calcium (Ca), soluble in water	104.5 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.0073 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	86.44 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.02667 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00057 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	18.11 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	189.5 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0011 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.10695 ± 9.8%	mg/L	7/28/2020	COW_ASB
Antimony (Sb), total in water	0.000115 ± 9.2%	mg/L	7/28/2020	COW_ASB
Arsenic (As), total in water	0.000296 ± 8.1%	mg/L	7/28/2020	COW_ASB
Barium (Ba), total in water	0.020524 ± 11.8%	mg/L	7/28/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/28/2020	COW_ASB
Boron (B), total in water	0.30907 ± 24.2%	mg/L	7/28/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/28/2020	COW_ASB
Calcium (Ca), total in water	91.476 ± 20.9%	mg/L	7/28/2020	COW_ASB
Chromium (Cr), total in water	0.00089 ± 12.8%	mg/L	7/28/2020	COW_ASB
Copper (Cu), total in water	0.000461 ± 12.1%	mg/L	7/28/2020	COW_ASB
Iron (Fe), total in water	0.37208 ± 9.7%	mg/L	7/28/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	7/28/2020	COW_ASB
Magnesium (Mg), total in water	65.634 ± 10.5%	mg/L	7/28/2020	COW_ASB
Manganese (Mn), total in water	0.03009 ± 11.2%	mg/L	7/28/2020	COW_ASB
Nickel (Ni), total in water	<0.000021 ± 12.2%	mg/L	7/28/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	7/28/2020	COW_ASB
Potassium (K), total in water	10.927 ± 18.3%	mg/L	7/28/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/28/2020	COW_ASB
Silver (Ag), total in water	-0.00024 ± 7.5%	mg/L	7/28/2020	COW_ASB
Sodium (Na), total in water	142.83 ± 9.2%	mg/L	7/28/2020	COW_ASB
Uranium (U), total in water	0.001212 ± 10.0%	mg/L	7/28/2020	COW_ASB
Zinc (Zn), total in water	0.00591 ± 10.7%	mg/L	7/28/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	228	mg/L	7/29/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	499	mg/L	7/29/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	27.40 ± 4.4%	NTU	7/14/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	195.000	mg/L	7/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	197.00	mg/L	7/17/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/17/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/17/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/17/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/17/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/17/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	97.900	%	7/17/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/17/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/17/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/17/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/17/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/17/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/17/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/17/2020	ALS
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Surrogate: 1,4-Difluorobenzene	98.3	%	7/17/2020	ALS
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Acetone	<0.050	mg/L	7/17/2020	ALS
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Benzene	<0.00050	mg/L	7/17/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/17/2020	ALS
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Bromoform	<0.0010	mg/L	7/17/2020	ALS
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Bromomethane	<0.001	mg/L	7/17/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/17/2020	ALS
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Chloroethane	<0.001	mg/L	7/17/2020	ALS
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Chloroform	<0.00050	mg/L	7/17/2020	ALS
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Chloromethane	<0.005	mg/L	7/17/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/17/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/17/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	7/17/2020	ALS
Dichloromethane	<0.00500	mg/L	7/17/2020	ALS
Ethylbenzene	<0.00050	mg/L	7/17/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	7/17/2020	ALS
o-Xylene	<0.0005	mg/L	7/17/2020	ALS
Styrene	<0.0010	mg/L	7/17/2020	ALS
Toluene	<0.00050	mg/L	7/17/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/17/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/17/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	7/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/17/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	7/17/2020	ALS

Sample No. : 313043
Sample Description : GWQ35-W1
Sample Date : July 9, 2020
Sample Received : July 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	319 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, total to pH 4.5	319 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.9	mg/L		7/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.9 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1070 ± 6%	mg/L		7/12/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	621 ± 10%	mg/L		7/12/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	62.0 ± 6.1%	mg/L		7/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	5080 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.40 ± 0.07 units	units		7/10/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3080 ± 6.5%	mg/L		7/11/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3740 ± 6.2%	mg/L		7/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	660.0	mg/L		7/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	4.6 ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	6.0 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.6962 ± 9.8%	mg/L		7/23/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0014 ± 8.1%	mg/L		7/23/2020	COW_ASB
Boron (B), soluble in water	0.4755 ± 24.2%	mg/L		7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	243.9 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	0.00190 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	0.00086 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	1.185 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	0.00051 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	140.1 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.07950 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00339 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	27.06 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	829.4 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0020 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0060 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	9.8026 ± 9.8%	mg/L	7/22/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/22/2020	COW_ASB
Arsenic (As), total in water	0.001773 ± 8.1%	mg/L	7/22/2020	COW_ASB
Barium (Ba), total in water	0.10498 ± 11.8%	mg/L	7/22/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/22/2020	COW_ASB
Boron (B), total in water	0.21142 ± 24.2%	mg/L	7/22/2020	COW_ASB
Cadmium (Cd), total in water	0.000077 ± 10.4%	mg/L	7/22/2020	COW_ASB
Calcium (Ca), total in water	241.22 ± 20.9%	mg/L	7/22/2020	COW_ASB
Chromium (Cr), total in water	0.02095 ± 12.8%	mg/L	7/22/2020	COW_ASB
Copper (Cu), total in water	0.003905 ± 12.1%	mg/L	7/22/2020	COW_ASB
Iron (Fe), total in water	12.948 ± 9.7%	mg/L	7/22/2020	COW_ASB
Lead (Pb), total in water	0.006324 ± 8.3%	mg/L	7/22/2020	COW_ASB
Magnesium (Mg), total in water	41.097 ± 10.5%	mg/L	7/22/2020	COW_ASB
Manganese (Mn), total in water	0.09012 ± 11.2%	mg/L	7/22/2020	COW_ASB
Nickel (Ni), total in water	0.015744 ± 12.2%	mg/L	7/22/2020	COW_ASB
Phosphorus (P), total in water	0.0506	mg/L	7/22/2020	COW_ASB
Potassium (K), total in water	22.711 ± 18.3%	mg/L	7/22/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/22/2020	COW_ASB
Silver (Ag), total in water	-0.00011 ± 7.5%	mg/L	7/22/2020	COW_ASB
Sodium (Na), total in water	650.12 ± 9.2%	mg/L	7/22/2020	COW_ASB
Uranium (U), total in water	0.003123 ± 10.0%	mg/L	7/22/2020	COW_ASB
Zinc (Zn), total in water	0.04196 ± 10.7%	mg/L	7/22/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	602	mg/L	7/29/2020	COW_ASB
Total Hardness, calculated in water	772	mg/L	7/29/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	430.00 ± 4.4%	NTU	7/10/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1160.000	mg/L	7/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	632.00	mg/L	7/17/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/17/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/17/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/17/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/17/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/17/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	96.300	%	7/17/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/17/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/17/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/17/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/17/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/17/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/17/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/17/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.6	%	7/17/2020	ALS
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Acetone	<0.050	mg/L	7/17/2020	ALS
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Benzene	<0.00050	mg/L	7/17/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/17/2020	ALS
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Bromoform	<0.0010	mg/L	7/17/2020	ALS
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Bromomethane	<0.001	mg/L	7/17/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/17/2020	ALS
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Chloroethane	<0.001	mg/L	7/17/2020	ALS
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Chloroform	<0.00050	mg/L	7/17/2020	ALS
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Chloromethane	<0.005	mg/L	7/17/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/17/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/17/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	7/17/2020	ALS
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Dichloromethane	<0.00500	mg/L	7/17/2020	ALS
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Ethylbenzene	<0.00050	mg/L	7/17/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	7/17/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	7/17/2020	ALS
Styrene	<0.0010	mg/L	7/17/2020	ALS
Toluene	<0.00050	mg/L	7/17/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/17/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/17/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.018	mg/L	7/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/17/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	7/17/2020	ALS
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Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, Low	0.544 ± 16.9%	mg/L	7/13/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	7/13/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L	7/13/2020	COW_ASB

Sample No. : 313044
Sample Description : GWQ35-W2
Sample Date : July 9, 2020
Sample Received : July 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	330 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, total to pH 4.5	330 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.7	mg/L		7/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.7 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1000 ± 6%	mg/L		7/12/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	488 ± 10%	mg/L		7/12/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	40.0 ± 6.1%	mg/L		7/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4430 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.32 ± 0.07 units	units		7/10/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	2620 ± 6.5%	mg/L		7/11/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3180 ± 6.2%	mg/L		7/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	562.0	mg/L		7/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	6.6 ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	2.8 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0268 ± 9.8%	mg/L		7/23/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0005 ± 8.1%	mg/L		7/23/2020	COW_ASB
Boron (B), soluble in water	0.6697 ± 24.2%	mg/L		7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	252.7 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	0.00015 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.1075 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	142.5 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.01043 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00064 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	20.86 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	708.7 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0019 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0031 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.83246 ± 9.8%	mg/L	7/22/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/22/2020	COW_ASB
Arsenic (As), total in water	0.000434 ± 8.1%	mg/L	7/22/2020	COW_ASB
Barium (Ba), total in water	0.030555 ± 11.8%	mg/L	7/22/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/22/2020	COW_ASB
Boron (B), total in water	0.65609 ± 24.2%	mg/L	7/22/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/22/2020	COW_ASB
Calcium (Ca), total in water	248.96 ± 20.9%	mg/L	7/22/2020	COW_ASB
Chromium (Cr), total in water	0.00495 ± 12.8%	mg/L	7/22/2020	COW_ASB
Copper (Cu), total in water	0.005285 ± 12.1%	mg/L	7/22/2020	COW_ASB
Iron (Fe), total in water	1.3226 ± 9.7%	mg/L	7/22/2020	COW_ASB
Lead (Pb), total in water	0.001740 ± 8.3%	mg/L	7/22/2020	COW_ASB
Magnesium (Mg), total in water	138.90 ± 10.5%	mg/L	7/22/2020	COW_ASB
Manganese (Mn), total in water	0.04559 ± 11.2%	mg/L	7/22/2020	COW_ASB
Nickel (Ni), total in water	<0.000021 ± 12.2%	mg/L	7/22/2020	COW_ASB
Phosphorus (P), total in water	0.0160	mg/L	7/22/2020	COW_ASB
Potassium (K), total in water	18.271 ± 18.3%	mg/L	7/22/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	7/22/2020	COW_ASB
Silver (Ag), total in water	0.00244 ± 7.5%	mg/L	7/22/2020	COW_ASB
Sodium (Na), total in water	528.44 ± 9.2%	mg/L	7/22/2020	COW_ASB
Uranium (U), total in water	0.001314 ± 10.0%	mg/L	7/22/2020	COW_ASB
Zinc (Zn), total in water	0.03811 ± 10.7%	mg/L	7/22/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	622	mg/L	7/29/2020	COW_ASB
Total Hardness, calculated in water	1190	mg/L	7/29/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	228.00 ± 4.4%	NTU	7/10/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1000.000	mg/L	7/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	505.00	mg/L	7/17/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/17/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/17/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/17/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/17/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/17/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	98.200	%	7/17/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/17/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/17/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/17/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/17/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/17/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/17/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/17/2020	ALS
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Surrogate: 1,4-Difluorobenzene	98.5	%	7/17/2020	ALS
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Acetone	<0.050	mg/L	7/17/2020	ALS
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Benzene	<0.00050	mg/L	7/17/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/17/2020	ALS
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Bromoform	<0.0010	mg/L	7/17/2020	ALS
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Bromomethane	<0.001	mg/L	7/17/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/17/2020	ALS
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Chloroethane	<0.001	mg/L	7/17/2020	ALS
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Chloroform	<0.00050	mg/L	7/17/2020	ALS
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Chloromethane	<0.005	mg/L	7/17/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/17/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/17/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	7/17/2020	ALS
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Dichloromethane	<0.00500	mg/L	7/17/2020	ALS
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Ethylbenzene	<0.00050	mg/L	7/17/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	7/17/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	7/17/2020	ALS
Styrene	<0.0010	mg/L	7/17/2020	ALS
Toluene	<0.00050	mg/L	7/17/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/17/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/17/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	7/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/17/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	7/17/2020	ALS
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Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, Low	0.611 ± 16.9%	mg/L	7/13/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	7/13/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L	7/13/2020	COW_ASB

Sample No. : 313045
Sample Description : GWQ35-W3
Sample Date : July 9, 2020
Sample Received : July 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	321 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, total to pH 4.5	321 ± 2.8%	mg/L		7/10/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/10/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.7	mg/L		7/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	0.7 ± 15%	mg/L		7/27/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1030 ± 6%	mg/L		7/12/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	549 ± 10%	mg/L		7/12/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	30.0 ± 6.1%	mg/L		7/17/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4600 ± 7.2%	uS		7/15/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.39 ± 0.07 units	units		7/10/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	2750 ± 6.5%	mg/L		7/11/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3180 ± 6.2%	mg/L		7/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	426.0	mg/L		7/13/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	6.0 ± 13%	mg/L		7/27/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	5.3 ± 13%	mg/L		7/27/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0168 ± 9.8%	mg/L		7/23/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		7/23/2020	COW_ASB
Arsenic (As), soluble in water	0.0010 ± 8.1%	mg/L		7/23/2020	COW_ASB
Boron (B), soluble in water	0.6694 ± 24.2%	mg/L		7/23/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		7/23/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	238.1 ± 20.9%	mg/L	7/23/2020	COW_ASB
Chromium (Cr), soluble in water	0.00015 ± 12.8%	mg/L	7/23/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	7/23/2020	COW_ASB
Iron (Fe), soluble in water	0.1276 ± 9.7%	mg/L	7/23/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	7/23/2020	COW_ASB
Magnesium (Mg), soluble in water	135.2 ± 10.5%	mg/L	7/23/2020	COW_ASB
Manganese (Mn), soluble in water	0.01366 ± 11.2%	mg/L	7/23/2020	COW_ASB
Nickel (Ni), soluble in water	0.00066 ± 12.2%	mg/L	7/23/2020	COW_ASB
Potassium (K), soluble in water	22.28 ± 18.3%	mg/L	7/23/2020	COW_ASB
Sodium (Na), soluble in water	729.5 ± 9.2%	mg/L	7/23/2020	COW_ASB
Uranium (U), soluble in water	0.0018 ± 10.0%	mg/L	7/23/2020	COW_ASB
Zinc (Zn), soluble in water	0.0018 ± 10.7	mg/L	7/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.62253 ± 9.8%	mg/L	7/22/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	7/22/2020	COW_ASB
Arsenic (As), total in water	0.001081 ± 8.1%	mg/L	7/22/2020	COW_ASB
Barium (Ba), total in water	0.035619 ± 11.8%	mg/L	7/22/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	7/22/2020	COW_ASB
Boron (B), total in water	0.59521 ± 24.2%	mg/L	7/22/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	7/22/2020	COW_ASB
Calcium (Ca), total in water	252.15 ± 20.9%	mg/L	7/22/2020	COW_ASB
Chromium (Cr), total in water	0.00378 ± 12.8%	mg/L	7/22/2020	COW_ASB
Copper (Cu), total in water	0.003225 ± 12.1%	mg/L	7/22/2020	COW_ASB
Iron (Fe), total in water	1.2471 ± 9.7%	mg/L	7/22/2020	COW_ASB
Lead (Pb), total in water	0.000933 ± 8.3%	mg/L	7/22/2020	COW_ASB
Magnesium (Mg), total in water	145.04 ± 10.5%	mg/L	7/22/2020	COW_ASB
Manganese (Mn), total in water	0.04285 ± 11.2%	mg/L	7/22/2020	COW_ASB
Nickel (Ni), total in water	0.001459 ± 12.2%	mg/L	7/22/2020	COW_ASB
Phosphorus (P), total in water	0.0128	mg/L	7/22/2020	COW_ASB
Potassium (K), total in water	19.590 ± 18.3%	mg/L	7/22/2020	COW_ASB
Selenium (Se), total in water	0.00024 ± 8.0%	mg/L	7/22/2020	COW_ASB
Silver (Ag), total in water	-0.00018 ± 7.5%	mg/L	7/22/2020	COW_ASB
Sodium (Na), total in water	595.35 ± 9.2%	mg/L	7/22/2020	COW_ASB
Uranium (U), total in water	0.002056 ± 10.0%	mg/L	7/22/2020	COW_ASB
Zinc (Zn), total in water	0.00899 ± 10.7%	mg/L	7/22/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	630	mg/L	7/29/2020	COW_ASB
Total Hardness, calculated in water	1230	mg/L	7/29/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	235.00 ± 4.4%	NTU	7/10/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1050.000	mg/L	7/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	536.00	mg/L	7/17/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		7/17/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	7/17/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/17/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	7/17/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	7/17/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	97.100	%	7/17/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	7/17/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	7/17/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	7/17/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	7/17/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	7/17/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	7/17/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	7/17/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	7/17/2020	ALS
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Surrogate: 1,4-Difluorobenzene	99.1	%	7/17/2020	ALS
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Acetone	<0.050	mg/L	7/17/2020	ALS
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Benzene	<0.00050	mg/L	7/17/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	7/17/2020	ALS
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Bromoform	<0.0010	mg/L	7/17/2020	ALS
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Bromomethane	<0.001	mg/L	7/17/2020	ALS
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Chlorobenzene	<0.0010	mg/L	7/17/2020	ALS
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Chloroethane	<0.001	mg/L	7/17/2020	ALS
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Chloroform	<0.00050	mg/L	7/17/2020	ALS
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Chloromethane	<0.005	mg/L	7/17/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	7/17/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	7/17/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	7/17/2020	ALS
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Dichloromethane	<0.00500	mg/L	7/17/2020	ALS
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Ethylbenzene	<0.00050	mg/L	7/17/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	7/17/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	7/17/2020	ALS
Styrene	<0.0010	mg/L	7/17/2020	ALS
Toluene	<0.00050	mg/L	7/17/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	7/17/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	7/17/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	7/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	7/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.013	mg/L	7/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/17/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	7/17/2020	ALS
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Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, Low	0.581 ± 16.9%	mg/L	7/13/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	7/13/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L	7/13/2020	COW_ASB

Reference Information

The Analytical Services Branch is accredited by CALA in accordance with ISO 17025 standards for specific tests.

Accredited Test Methods Used :**Test Method**

Alkalinity by Titration
 Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis
 COD by Closed Reflux Method
 Conductivity by Electrometric Method
 Dissolved Organic Carbon by High Temperature Combustion
 Dissolved Solids by Gravimetric Analysis
 Hardness, Calcium & Total by Calculation
 Metals Soluble in Water by ICP-MS
 Metals Total in Water by ICP-MS
 pH in Laboratory by Electrometric Method
 Total Kjeldahl Nitrogen Calculated

Total Nitrogen by High Temperature Combustion

Total Organic Carbon by High Temperature Combustion

Total Solids by Gravimetric Analysis

Total Suspended Solids by Gravimetric Analysis

Turbidity in Laboratory by Nephelometric Method

Reference Method

Modified from SM 2320 B. Titration Method
 Modified from SM 4500-NH3 H. NO3 I & P G. Flow Injection Analysis
 Modified from SM 5220 D. Closed Reflux, Colorimetric Method
 Modified from SM 2510 B. Laboratory Measurement
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 C. Total Dissolved Solids Dried at 180°C
 Calculated from EPA Methods 200.8
 Modified from EPA Methods 200.8
 Modified from EPA Methods 200.8
 Modified from SM 4500 H+B (Electrometric Method)
 Calculated from SM 5310 B. High Temperature Combustion and SM 4500-NO3 I. Flow Injection Analysis
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 B. Total Solids Dried at 103-105°C
 Modified from SM 2540 D. Total Suspended Solids Dried at 103-105°C
 Modified from SM 2130 A. Turbidity & 2130 B. Nephelometric Method

Additional Test Methods Used :**Test Method**

Chloride by Mercuric Thiocyanate Method

Reference Method

Modified from SM 4500Cl-G Mercuric Thiocyanate & HACH Method 8113

Additional Test Methods Used :

Test Method

Sulfate by HACH Method

Reference Method

Modified from HACH Method 8051, SulfaVer 4, & SM 4500-SO4-2 E. Turbidimetric

Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4

COW_ASB : City of Winnipeg Main Laboratory at NEWPCC, 2230 Main Street, Winnipeg, MB R2V 4T8

Additional Comments :

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- 3) For subcontracted testing, the certificate of analysis can be provided upon request.
- 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

----- **END OF REPORT** -----

Report To :

Mr. Chris Kozak
Solid Waste Services Division
1120 Waverley Street
Winnipeg MB R3E 3S8

Report Date : September 30, 2020

Phone : 204-986-2384
Email : ckozak@winnipeg.ca

Certificate of Analysis Job No. 544

Date Authorised : September 30, 2020

Total Number of Pages : 11

This report is issued under the authority of :

Brock Bradford

Analytical Services Branch Head

This report shall not be reproduced except in full without the written approval of the laboratory.

The results relate only to the sample(s) as received by the laboratory.

Additional information regarding the test methods used by Analytical Services Branch or contract laboratory is available upon request.

Sample No. : 319534
Sample Description : SWQ18-SF3
Sample Date : May 25, 2020
Sample Received : July 21, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Ammonia by colour					
Ammonia, total (as N) in water	0.82	mg/L		7/21/2020	ALS
Phosphate Ortho Dissolved in Water					
Orthophosphate-Dissolved (as P)	0.71	mg/L		7/21/2020	ALS
Total Kjeldahl Nitrogen1					
Total Kjeldahl Nitrogen in water	9.400	mg/L		7/21/2020	ALS
Nitrate in Water by IC					
Nitrate in water by IC	<0.200	mg/L		7/21/2020	ALS
Nitrate+Nitrite					
Nitrate+Nitrite as N in water by IC	<0.2	mg/L		7/21/2020	ALS
Nitrite in Water by IC					
Nitrite in water by IC	<0.100	mg/L		7/21/2020	ALS

Sample No. : 319535
Sample Description : SWQ18-SF4
Sample Date : May 25, 2020
Sample Received : July 21, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Ammonia by colour					
Ammonia, total (as N) in water	0.13	mg/L		7/21/2020	ALS
Phosphate Ortho Dissolved in Water					
Orthophosphate-Dissolved (as P)	0.74	mg/L		7/21/2020	ALS
Total Kjeldahl Nitrogen1					
Total Kjeldahl Nitrogen in water	6.000	mg/L		7/21/2020	ALS
Nitrate in Water by IC					
Nitrate in water by IC	<0.040	mg/L		7/21/2020	ALS
Nitrate+Nitrite					
Nitrate+Nitrite as N in water by IC	<0.1	mg/L		7/21/2020	ALS
Nitrite in Water by IC					
Nitrite in water by IC	<0.020	mg/L		7/21/2020	ALS

Sample No. : 319536
Sample Description : SWQ18-SF5
Sample Date : May 25, 2020
Sample Received : July 21, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Ammonia by colour					
Ammonia, total (as N) in water	0.12	mg/L		7/21/2020	ALS
Phosphate Ortho Dissolved in Water					
Orthophosphate-Dissolved (as P)	0.61	mg/L		7/21/2020	ALS
Total Kjeldahl Nitrogen1					
Total Kjeldahl Nitrogen in water	4.610	mg/L		7/21/2020	ALS
Nitrate in Water by IC					
Nitrate in water by IC	<0.020	mg/L		7/21/2020	ALS
Nitrate+Nitrite					
Nitrate+Nitrite as N in water by IC	<0.1	mg/L		7/21/2020	ALS
Nitrite in Water by IC					
Nitrite in water by IC	<0.010	mg/L		7/21/2020	ALS

Sample No. : 319537
Sample Description : SWQ18-SF6
Sample Date : May 25, 2020
Sample Received : July 21, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Ammonia by colour					
Ammonia, total (as N) in water	126.00	mg/L		7/21/2020	ALS
Phosphate Ortho Dissolved in Water					
Orthophosphate-Dissolved (as P)	7.98	mg/L		7/21/2020	ALS
Total Kjeldahl Nitrogen1					
Total Kjeldahl Nitrogen in water	249.000	mg/L		7/21/2020	ALS
Nitrate in Water by IC					
Nitrate in water by IC	<0.400	mg/L		7/21/2020	ALS
Nitrate+Nitrite					
Nitrate+Nitrite as N in water by IC	<0.5	mg/L		7/21/2020	ALS
Nitrite in Water by IC					
Nitrite in water by IC	<0.200	mg/L		7/21/2020	ALS

Sample No. : 319538
Sample Description : SWQ18-SF
Sample Date : May 25, 2020
Sample Received : July 21, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Ammonia by colour					
Ammonia, total (as N) in water	<0.10	mg/L		7/21/2020	ALS
Phosphate Ortho Dissolved in Water					
Orthophosphate-Dissolved (as P)	0.16	mg/L		7/21/2020	ALS
Total Kjeldahl Nitrogen1					
Total Kjeldahl Nitrogen in water	4.570	mg/L		7/21/2020	ALS
Nitrate in Water by IC					
Nitrate in water by IC	<0.020	mg/L		7/21/2020	ALS
Nitrate+Nitrite					
Nitrate+Nitrite as N in water by IC	<0.1	mg/L		7/21/2020	ALS
Nitrite in Water by IC					
Nitrite in water by IC	<0.010	mg/L		7/21/2020	ALS

Sample No. : 319539
Sample Description : SWQ18-SF5
Sample Date : June 18, 2020
Sample Received : July 21, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Ammonia by colour					
Ammonia, total (as N) in water	0.90	mg/L		7/21/2020	ALS
Phosphate Ortho Dissolved in Water					
Orthophosphate-Dissolved (as P)	5.36	mg/L		7/21/2020	ALS
Total Kjeldahl Nitrogen1					
Total Kjeldahl Nitrogen in water	8.090	mg/L		7/21/2020	ALS
Nitrate in Water by IC					
Nitrate in water by IC	<0.400	mg/L		7/21/2020	ALS
Nitrate+Nitrite					
Nitrate+Nitrite as N in water by IC	<0.5	mg/L		7/21/2020	ALS
Nitrite in Water by IC					
Nitrite in water by IC	<0.200	mg/L		7/21/2020	ALS

Sample No. : 319540
Sample Description : SWQ18-SF3
Sample Date : June 18, 2020
Sample Received : July 21, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Ammonia by colour					
Ammonia, total (as N) in water	0.43	mg/L		7/21/2020	ALS
Phosphate Ortho Dissolved in Water					
Orthophosphate-Dissolved (as P)	0.13	mg/L		7/21/2020	ALS
Total Kjeldahl Nitrogen1					
Total Kjeldahl Nitrogen in water	4.160	mg/L		7/21/2020	ALS
Nitrate in Water by IC					
Nitrate in water by IC	1.270	mg/L		7/21/2020	ALS
Nitrate+Nitrite					
Nitrate+Nitrite as N in water by IC	1.5	mg/L		7/21/2020	ALS
Nitrite in Water by IC					
Nitrite in water by IC	0.226	mg/L		7/21/2020	ALS

Sample No. : 319541
Sample Description : SWQ18-SF4
Sample Date : June 18, 2020
Sample Received : July 21, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Ammonia by colour					
Ammonia, total (as N) in water	188.00	mg/L		7/21/2020	ALS
Phosphate Ortho Dissolved in Water					
Orthophosphate-Dissolved (as P)	0.49	mg/L		7/21/2020	ALS
Total Kjeldahl Nitrogen1					
Total Kjeldahl Nitrogen in water	255.000	mg/L		7/21/2020	ALS
Nitrate in Water by IC					
Nitrate in water by IC	<0.100	mg/L		7/21/2020	ALS
Nitrate+Nitrite					
Nitrate+Nitrite as N in water by IC	<0.1	mg/L		7/21/2020	ALS
Nitrite in Water by IC					
Nitrite in water by IC	<0.050	mg/L		7/21/2020	ALS

Sample No. : 319542
Sample Description : SWQ18-SF-Background
Sample Date : June 18, 2020
Sample Received : July 21, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Ammonia by colour					
Ammonia, total (as N) in water	0.36	mg/L		7/21/2020	ALS
Phosphate Ortho Dissolved in Water					
Orthophosphate-Dissolved (as P)	0.36	mg/L		7/21/2020	ALS
Total Kjeldahl Nitrogen1					
Total Kjeldahl Nitrogen in water	4.000	mg/L		7/21/2020	ALS
Nitrate in Water by IC					
Nitrate in water by IC	<0.040	mg/L		7/21/2020	ALS
Nitrate+Nitrite					
Nitrate+Nitrite as N in water by IC	<0.1	mg/L		7/21/2020	ALS
Nitrite in Water by IC					
Nitrite in water by IC	<0.020	mg/L		7/21/2020	ALS

Sample No. : 319543
Sample Description : SWQ18-SF6
Sample Date : June 18, 2020
Sample Received : July 21, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Ammonia by colour					
Ammonia, total (as N) in water	0.50	mg/L		7/21/2020	ALS
Phosphate Ortho Dissolved in Water					
Orthophosphate-Dissolved (as P)	0.01	mg/L		7/21/2020	ALS
Total Kjeldahl Nitrogen1					
Total Kjeldahl Nitrogen in water	3.740	mg/L		7/21/2020	ALS
Nitrate in Water by IC					
Nitrate in water by IC	0.380	mg/L		7/21/2020	ALS
Nitrate+Nitrite					
Nitrate+Nitrite as N in water by IC	0.4	mg/L		7/21/2020	ALS
Nitrite in Water by IC					
Nitrite in water by IC	<0.050	mg/L		7/21/2020	ALS

Reference Information

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Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4

Additional Comments :

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- 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

----- **END OF REPORT** -----

Report To :

Mr. Chris KozakSolid Waste Services Division
1120 Waverley Street
Winnipeg MB R3E 3S8

Report Date : September 29, 2020

Phone : 204-986-2384

Email : ckozak@winnipeg.ca

Certificate of Analysis Job No. 545

Date Authorised : September 29, 2020

Total Number of Pages : 19

This report is issued under the authority of :

Brock Bradford

Analytical Services Branch Head

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Additional information regarding the test methods used by Analytical Services Branch or contract laboratory is available upon request.

Sample No. : 319544
Sample Description : SS18-1
Sample Date : June 24, 2020
Sample Received : July 22, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	4.90	mg/kg		7/22/2020	ALS
EC (Saturated Paste)					
Conductivity Sat. Paste	4.30	mohm		7/22/2020	ALS
Mercury in Soil					
Mercury (Hg)-Total in soil/sludge	0.077	mg/kg		7/22/2020	ALS
Metals_P in soil/sludge					
Phosphorus (P) in soil/sludge	1450.0	mg/kg		7/22/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	7.10	%		7/22/2020	ALS
Organic Matter by LOI at 375 deg C.	5.80	%		7/22/2020	ALS
pH in Soil (soil:water Extraction)					
pH in soil	7.56	unit		7/22/2020	ALS
Saturated Paste					
% Saturation	55.70	%		7/22/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	10.80	mg/kg		7/22/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	281.00	mg/kg		7/22/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	98.0	mg/kg		7/22/2020	ALS
Available Potassium in soil/sludge	656.0	mg/kg		7/22/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	6.05	%		7/22/2020	ALS
Total Kjeldahl Nitrogen2					
Total Kjeldahl Nitrogen, percent in soil	0.35	%		7/22/2020	ALS
Moisture Content					
Moisture Content	27.4	%		7/22/2020	ALS

Sample No. : 319545
Sample Description : SS18-2
Sample Date : June 24, 2020
Sample Received : July 22, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	79.40	mg/kg		7/22/2020	ALS
EC (Saturated Paste)					
Conductivity Sat. Paste	6.01	mohm		7/22/2020	ALS
Mercury in Soil					
Mercury (Hg)-Total in soil/sludge	0.055	mg/kg		7/22/2020	ALS
Metals_P in soil/sludge					
Phosphorus (P) in soil/sludge	1610.0	mg/kg		7/22/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	6.80	%		7/22/2020	ALS
Organic Matter by LOI at 375 deg C.	5.60	%		7/22/2020	ALS
pH in Soil (soil:water Extraction)					
pH in soil	7.60	unit		7/22/2020	ALS
Saturated Paste					
% Saturation	59.30	%		7/22/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	25.10	mg/kg		7/22/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	500.00	mg/kg		7/22/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	57.6	mg/kg		7/22/2020	ALS
Available Potassium in soil/sludge	402.0	mg/kg		7/22/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	5.98	%		7/22/2020	ALS
Total Kjeldahl Nitrogen2					
Total Kjeldahl Nitrogen, percent in soil	0.44	%		7/22/2020	ALS
Moisture Content					
Moisture Content	25.1	%		7/22/2020	ALS

Sample No. : 319546
Sample Description : SS18-3A
Sample Date : June 24, 2020
Sample Received : July 22, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	74.00	mg/kg		7/22/2020	ALS
EC (Saturated Paste)					
Conductivity Sat. Paste	6.31	mohm		7/22/2020	ALS
Mercury in Soil					
Mercury (Hg)-Total in soil/sludge	0.084	mg/kg		7/22/2020	ALS
Metals_P in soil/sludge					
Phosphorus (P) in soil/sludge	1760.0	mg/kg		7/22/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	6.50	%		7/22/2020	ALS
Organic Matter by LOI at 375 deg C.	5.40	%		7/22/2020	ALS
pH in Soil (soil:water Extraction)					
pH in soil	7.63	unit		7/22/2020	ALS
Saturated Paste					
% Saturation	52.80	%		7/22/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	64.10	mg/kg		7/22/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	449.00	mg/kg		7/22/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	56.4	mg/kg		7/22/2020	ALS
Available Potassium in soil/sludge	412.0	mg/kg		7/22/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	7.77	%		7/22/2020	ALS
Total Kjeldahl Nitrogen2					
Total Kjeldahl Nitrogen, percent in soil	0.39	%		7/22/2020	ALS
Moisture Content					
Moisture Content	24.5	%		7/22/2020	ALS

Sample No. : 319547
Sample Description : SS18-4
Sample Date : June 26, 2020
Sample Received : July 22, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	66.80	mg/kg		7/22/2020	ALS
EC (Saturated Paste)					
Conductivity Sat. Paste	6.37	mohm		7/22/2020	ALS
Mercury in Soil					
Mercury (Hg)-Total in soil/sludge	0.054	mg/kg		7/22/2020	ALS
Metals_P in soil/sludge					
Phosphorus (P) in soil/sludge	2340.0	mg/kg		7/22/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	9.40	%		7/22/2020	ALS
Organic Matter by LOI at 375 deg C.	7.60	%		7/22/2020	ALS
pH in Soil (soil:water Extraction)					
pH in soil	7.31	unit		7/22/2020	ALS
Saturated Paste					
% Saturation	62.90	%		7/22/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	173.00	mg/kg		7/22/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	870.00	mg/kg		7/22/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	55.6	mg/kg		7/22/2020	ALS
Available Potassium in soil/sludge	518.0	mg/kg		7/22/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	7.48	%		7/22/2020	ALS
Total Kjeldahl Nitrogen2					
Total Kjeldahl Nitrogen, percent in soil	0.58	%		7/22/2020	ALS
Moisture Content					
Moisture Content	34.8	%		7/22/2020	ALS

Sample No. : 319548
Sample Description : SS18-6B
Sample Date : June 26, 2020
Sample Received : July 22, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	177.00	mg/kg		7/22/2020	ALS
EC (Saturated Paste)					
Conductivity Sat. Paste	10.70	mohm		7/22/2020	ALS
Mercury in Soil					
Mercury (Hg)-Total in soil/sludge	0.083	mg/kg		7/22/2020	ALS
Metals_P in soil/sludge					
Phosphorus (P) in soil/sludge	1720.0	mg/kg		7/22/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	7.00	%		7/22/2020	ALS
Organic Matter by LOI at 375 deg C.	5.70	%		7/22/2020	ALS
pH in Soil (soil:water Extraction)					
pH in soil	7.58	unit		7/22/2020	ALS
Saturated Paste					
% Saturation	56.20	%		7/22/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	12.50	mg/kg		7/22/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	442.00	mg/kg		7/22/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	136.0	mg/kg		7/22/2020	ALS
Available Potassium in soil/sludge	485.0	mg/kg		7/22/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	6.11	%		7/22/2020	ALS
Total Kjeldahl Nitrogen2					
Total Kjeldahl Nitrogen, percent in soil	0.50	%		7/22/2020	ALS
Moisture Content					
Moisture Content	24.1	%		7/22/2020	ALS

Sample No. : 319549
Sample Description : SS18-3B
Sample Date : June 29, 2020
Sample Received : July 22, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	92.10	mg/kg		7/22/2020	ALS
EC (Saturated Paste)					
Conductivity Sat. Paste	10.20	mohm		7/22/2020	ALS
Mercury in Soil					
Mercury (Hg)-Total in soil/sludge	0.059	mg/kg		7/22/2020	ALS
Metals_P in soil/sludge					
Phosphorus (P) in soil/sludge	1630.0	mg/kg		7/22/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	9.20	%		7/22/2020	ALS
Organic Matter by LOI at 375 deg C.	7.40	%		7/22/2020	ALS
pH in Soil (soil:water Extraction)					
pH in soil	7.65	unit		7/22/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	32.70	mg/kg		7/22/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	466.00	mg/kg		7/22/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	161.0	mg/kg		7/22/2020	ALS
Available Potassium in soil/sludge	577.0	mg/kg		7/22/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	7.00	%		7/22/2020	ALS
Total Kjeldahl Nitrogen2					
Total Kjeldahl Nitrogen, percent in soil	0.43	%		7/22/2020	ALS
Moisture Content					
Moisture Content	25.8	%		7/22/2020	ALS

Sample No. : 319550
Sample Description : SS18-5
Sample Date : June 29, 2020
Sample Received : July 22, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	32.30	mg/kg		7/22/2020	ALS
EC (Saturated Paste)					
Conductivity Sat. Paste	13.20	mohm		7/22/2020	ALS
Mercury in Soil					
Mercury (Hg)-Total in soil/sludge	0.032	mg/kg		7/22/2020	ALS
Metals_P in soil/sludge					
Phosphorus (P) in soil/sludge	1030.0	mg/kg		7/22/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	6.80	%		7/22/2020	ALS
Organic Matter by LOI at 375 deg C.	5.60	%		7/22/2020	ALS
pH in Soil (soil:water Extraction)					
pH in soil	7.58	unit		7/22/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	76.10	mg/kg		7/22/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	519.00	mg/kg		7/22/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	87.0	mg/kg		7/22/2020	ALS
Available Potassium in soil/sludge	421.0	mg/kg		7/22/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	6.21	%		7/22/2020	ALS
Total Kjeldahl Nitrogen2					
Total Kjeldahl Nitrogen, percent in soil	0.39	%		7/22/2020	ALS
Moisture Content					
Moisture Content	26.3	%		7/22/2020	ALS

Sample No. : 319551
Sample Description : SS18-6A
Sample Date : June 30, 2020
Sample Received : July 22, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	84.20	mg/kg		7/22/2020	ALS
EC (Saturated Paste)					
Conductivity Sat. Paste	12.80	mohm		7/22/2020	ALS
Mercury in Soil					
Mercury (Hg)-Total in soil/sludge	0.040	mg/kg		7/22/2020	ALS
Metals_P in soil/sludge					
Phosphorus (P) in soil/sludge	1240.0	mg/kg		7/22/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	7.20	%		7/22/2020	ALS
Organic Matter by LOI at 375 deg C.	5.90	%		7/22/2020	ALS
pH in Soil (soil:water Extraction)					
pH in soil	7.63	unit		7/22/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	55.70	mg/kg		7/22/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	477.00	mg/kg		7/22/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	97.0	mg/kg		7/22/2020	ALS
Available Potassium in soil/sludge	454.0	mg/kg		7/22/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	5.91	%		7/22/2020	ALS
Total Kjeldahl Nitrogen2					
Total Kjeldahl Nitrogen, percent in soil	0.39	%		7/22/2020	ALS
Moisture Content					
Moisture Content	20.9	%		7/22/2020	ALS

Sample No. : 319552
Sample Description : SS18-7A
Sample Date : June 30, 2020
Sample Received : July 22, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	331.00	mg/kg		7/22/2020	ALS
EC (Saturated Paste)					
Conductivity Sat. Paste	12.90	mohm		7/22/2020	ALS
Mercury in Soil					
Mercury (Hg)-Total in soil/sludge	0.092	mg/kg		7/22/2020	ALS
Metals_P in soil/sludge					
Phosphorus (P) in soil/sludge	3260.0	mg/kg		7/22/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	9.90	%		7/22/2020	ALS
Organic Matter by LOI at 375 deg C.	8.00	%		7/22/2020	ALS
pH in Soil (soil:water Extraction)					
pH in soil	7.39	unit		7/22/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	119.00	mg/kg		7/22/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	887.00	mg/kg		7/22/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	128.0	mg/kg		7/22/2020	ALS
Available Potassium in soil/sludge	547.0	mg/kg		7/22/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	7.17	%		7/22/2020	ALS
Total Kjeldahl Nitrogen2					
Total Kjeldahl Nitrogen, percent in soil	0.60	%		7/22/2020	ALS
Moisture Content					
Moisture Content	28.0	%		7/22/2020	ALS

Sample No. : 319553
Sample Description : SS18-7B
Sample Date : July 7, 2020
Sample Received : July 22, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	287.00	mg/kg		7/22/2020	ALS
EC (Saturated Paste)					
Conductivity Sat. Paste	13.00	mohm		7/22/2020	ALS
Mercury in Soil					
Mercury (Hg)-Total in soil/sludge	0.095	mg/kg		7/22/2020	ALS
Metals_P in soil/sludge					
Phosphorus (P) in soil/sludge	2430.0	mg/kg		7/22/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	8.00	%		7/22/2020	ALS
Organic Matter by LOI at 375 deg C.	6.50	%		7/22/2020	ALS
pH in Soil (soil:water Extraction)					
pH in soil	7.60	unit		7/22/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	19.50	mg/kg		7/22/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	538.00	mg/kg		7/22/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	138.0	mg/kg		7/22/2020	ALS
Available Potassium in soil/sludge	505.0	mg/kg		7/22/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	6.65	%		7/22/2020	ALS
Total Kjeldahl Nitrogen2					
Total Kjeldahl Nitrogen, percent in soil	0.62	%		7/22/2020	ALS
Moisture Content					
Moisture Content	26.6	%		7/22/2020	ALS

Sample No. : 329564
Sample Description : 015-AGB
Sample Date : August 11, 2020
Sample Received : August 11, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	3.00	mg/kg		8/30/2020	ALS
EC (Saturated Paste)					
Conductivity Sat. Paste	0.77	mohm		8/30/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	6.90	%		8/30/2020	ALS
Organic Matter by LOI at 375 deg C.	5.60	%		8/30/2020	ALS
Saturated Paste					
% Saturation	77.10	%		8/30/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	2.40	mg/kg		8/30/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	25.10	mg/kg		8/30/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	2.2	mg/kg		8/30/2020	ALS
Available Potassium in soil/sludge	518.0	mg/kg		8/30/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	4.06	%		8/30/2020	ALS
Inorganic Carbon as CaCO3 Equivalent					
Inorganic Carbon as CaCO3 Equivalent	7.85	%		8/30/2020	ALS
Total Carbon by combustion method					
Total Carbon by Combustion	5.00	%		8/30/2020	ALS
Total Inorganic Carbon in Soil					
Inorganic Carbon in soil/sludge	0.94	%		8/30/2020	ALS
Total Kjeldahl Nitrogen					
Total Kjeldahl Nitrogen	0.30	mg/Kg		8/30/2020	ALS
pH in Soil (soil:water Extraction)					
pH in soil	8.13	unit		8/30/2020	ALS
Metals in Soil by CRC ICPMS					
Aluminum (Al), total in soil/sludge	19400	mg/Kg		9/2/2020	ALS
Antimony (Sb), total in soil/sludge	0.1	mg/Kg		9/2/2020	ALS
Arsenic (As), total in soil/sludge	3.2	mg/Kg		9/2/2020	ALS
Barium (Ba), total in soil/sludge	119.0	mg/Kg		9/2/2020	ALS
Beryllium (Be), total in soil/sludge	0.6	mg/Kg		9/2/2020	ALS
Bismuth (Bi), total in soil/sludge	<0.2	mg/Kg		9/2/2020	ALS
Boron (B), total in water	13	mg/Kg		9/2/2020	ALS

Metals in Soil by CRC ICPMS

Cadmium (Cd), total in soil/sludge	0.25	mg/Kg	9/2/2020	ALS
Calcium (Ca), total in soil/sludge	31600	mg/Kg	9/2/2020	ALS
Chromium (Cr), total in soil/sludge	29.7	mg/Kg	9/2/2020	ALS
Cobalt (Co), total in soil/sludge	7.3	mg/Kg	9/2/2020	ALS
Copper (Cu), total in soil/sludge	19.4	mg/Kg	9/2/2020	ALS
Iron (Fe), total in soil/sludge	18000	mg/Kg	9/2/2020	ALS
Lead (Pb), total in soil/sludge	10.1	mg/Kg	9/2/2020	ALS
Lithium (Li), total in soil/sludge	15	mg/Kg	9/2/2020	ALS
Magnesium (Mg), total in soil/sludge	18900	mg/Kg	9/2/2020	ALS
Manganese (Mn), total in soil/sludge	364	mg/Kg	9/2/2020	ALS
Molybdenum (Mo), total in soil/sludge	0.1	mg/Kg	9/2/2020	ALS
Nickel (Ni), total in soil/sludge	22.4	mg/Kg	9/2/2020	ALS
Phosphorus (P), total in soil/sludge	569	mg/Kg	9/2/2020	ALS
Potassium (K), total in soil/sludge	4720	mg/Kg	9/2/2020	ALS
Selenium (Se), total in soil/sludge	0.2	mg/Kg	9/2/2020	ALS
Silver (Ag), total in soil/sludge	<0.1	mg/Kg	9/2/2020	ALS
Sodium (Na), total in soil/sludge	108	mg/Kg	9/2/2020	ALS
Strontium (Sr), total in soil/sludge	62.6	mg/Kg	9/2/2020	ALS
Sulfur (S), total in soil/sludge	<1000	mg/Kg	9/2/2020	ALS
Thallium (Tl), total in soil/sludge	0.22	mg/Kg	9/2/2020	ALS
Tin (Sn), total in soil/sludge	<2	mg/Kg	9/2/2020	ALS
Titanium (Ti), total in soil/sludge	115	mg/Kg	9/2/2020	ALS
Tungsten (W), total in soil/sludge	<5.0	mg/Kg	9/2/2020	ALS
Uranium (U), total in soil/sludge	0.76	mg/Kg	9/2/2020	ALS
Vanadium (V), total in soil/sludge	40.6	mg/Kg	9/2/2020	ALS
Zinc (Zn), total in soil/sludge	57	mg/Kg	9/2/2020	ALS
Zirconium (Zr), total in soil/sludge	5	mg/Kg	9/2/2020	ALS

Sample No. : 329565
Sample Description : 030-AGB
Sample Date : August 11, 2020
Sample Received : August 11, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	3.10	mg/kg		8/30/2020	ALS
EC (Saturated Paste)					
Conductivity Sat. Paste	0.32	mohm		8/30/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	3.30	%		8/30/2020	ALS
Organic Matter by LOI at 375 deg C.	2.80	%		8/30/2020	ALS
Saturated Paste					
% Saturation	123.00	%		8/30/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	<2.00	mg/kg		8/30/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	10.30	mg/kg		8/30/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	<2.0	mg/kg		8/30/2020	ALS
Available Potassium in soil/sludge	380.0	mg/kg		8/30/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	1.04	%		8/30/2020	ALS
Inorganic Carbon as CaCO3 Equivalent					
Inorganic Carbon as CaCO3 Equivalent	10.10	%		8/30/2020	ALS
Total Carbon by combustion method					
Total Carbon by Combustion	2.25	%		8/30/2020	ALS
Total Inorganic Carbon in Soil					
Inorganic Carbon in soil/sludge	1.21	%		8/30/2020	ALS
Total Kjeldahl Nitrogen					
Total Kjeldahl Nitrogen	0.11	mg/Kg		8/30/2020	ALS
pH in Soil (soil:water Extraction)					
pH in soil	8.47	unit		8/30/2020	ALS
Metals in Soil by CRC ICPMS					
Aluminum (Al), total in soil/sludge	22700	mg/Kg		9/2/2020	ALS
Antimony (Sb), total in soil/sludge	0.2	mg/Kg		9/2/2020	ALS
Arsenic (As), total in soil/sludge	5.4	mg/Kg		9/2/2020	ALS
Barium (Ba), total in soil/sludge	155.0	mg/Kg		9/2/2020	ALS
Beryllium (Be), total in soil/sludge	0.8	mg/Kg		9/2/2020	ALS
Bismuth (Bi), total in soil/sludge	<0.2	mg/Kg		9/2/2020	ALS
Boron (B), total in water	15	mg/Kg		9/2/2020	ALS

Metals in Soil by CRC ICPMS

Cadmium (Cd), total in soil/sludge	0.18	mg/Kg	9/2/2020	ALS
Calcium (Ca), total in soil/sludge	40500	mg/Kg	9/2/2020	ALS
Chromium (Cr), total in soil/sludge	38.4	mg/Kg	9/2/2020	ALS
Cobalt (Co), total in soil/sludge	11.3	mg/Kg	9/2/2020	ALS
Copper (Cu), total in soil/sludge	22.8	mg/Kg	9/2/2020	ALS
Iron (Fe), total in soil/sludge	23400	mg/Kg	9/2/2020	ALS
Lead (Pb), total in soil/sludge	10.1	mg/Kg	9/2/2020	ALS
Lithium (Li), total in soil/sludge	21	mg/Kg	9/2/2020	ALS
Magnesium (Mg), total in soil/sludge	19300	mg/Kg	9/2/2020	ALS
Manganese (Mn), total in soil/sludge	610	mg/Kg	9/2/2020	ALS
Molybdenum (Mo), total in soil/sludge	0.2	mg/Kg	9/2/2020	ALS
Nickel (Ni), total in soil/sludge	32.5	mg/Kg	9/2/2020	ALS
Phosphorus (P), total in soil/sludge	486	mg/Kg	9/2/2020	ALS
Potassium (K), total in soil/sludge	5140	mg/Kg	9/2/2020	ALS
Selenium (Se), total in soil/sludge	<0.2	mg/Kg	9/2/2020	ALS
Silver (Ag), total in soil/sludge	0.1	mg/Kg	9/2/2020	ALS
Sodium (Na), total in soil/sludge	128	mg/Kg	9/2/2020	ALS
Strontium (Sr), total in soil/sludge	65.8	mg/Kg	9/2/2020	ALS
Sulfur (S), total in soil/sludge	<1000	mg/Kg	9/2/2020	ALS
Thallium (Tl), total in soil/sludge	0.27	mg/Kg	9/2/2020	ALS
Tin (Sn), total in soil/sludge	<2	mg/Kg	9/2/2020	ALS
Titanium (Ti), total in soil/sludge	169	mg/Kg	9/2/2020	ALS
Tungsten (W), total in soil/sludge	<5.0	mg/Kg	9/2/2020	ALS
Uranium (U), total in soil/sludge	0.74	mg/Kg	9/2/2020	ALS
Vanadium (V), total in soil/sludge	61.2	mg/Kg	9/2/2020	ALS
Zinc (Zn), total in soil/sludge	65	mg/Kg	9/2/2020	ALS
Zirconium (Zr), total in soil/sludge	5	mg/Kg	9/2/2020	ALS

Sample No. : 330286
Sample Description : 015B-AGB
Sample Date : August 20, 2020
Sample Received : September 1, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	1.50	mg/kg		9/1/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	3.90	%		9/1/2020	ALS
Organic Matter by LOI at 375 deg C.	3.30	%		9/1/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	6.10	mg/kg		9/1/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	133.00	mg/kg		9/1/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	7.0	mg/kg		9/1/2020	ALS
Available Potassium in soil/sludge	293.0	mg/kg		9/1/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	4.20	%		9/1/2020	ALS
Total Kjeldahl Nitrogen					
Total Kjeldahl Nitrogen	0.14	mg/Kg		9/1/2020	ALS
Saturated Paste					
% Saturation	69.00	%		9/1/2020	ALS
Conductivity Sat. Paste	2.50	mohm		9/1/2020	ALS
pH in Saturated Paste	8.11	unit		9/1/2020	ALS
Mercury in Soil					
Mercury (Hg)-Total in soil/sludge	0.033	mg/kg		9/1/2020	ALS
Moisture Content					
Moisture Content	19.2	%		9/1/2020	ALS
Metals in Soil by CRC ICPMS					
Aluminum (Al), total in soil/sludge	17300	mg/Kg		9/2/2020	ALS
Antimony (Sb), total in soil/sludge	0.3	mg/Kg		9/2/2020	ALS
Arsenic (As), total in soil/sludge	5.6	mg/Kg		9/2/2020	ALS
Barium (Ba), total in soil/sludge	173.0	mg/Kg		9/2/2020	ALS
Beryllium (Be), total in soil/sludge	0.7	mg/Kg		9/2/2020	ALS
Bismuth (Bi), total in soil/sludge	<0.2	mg/Kg		9/2/2020	ALS
Boron (B), total in water	14	mg/Kg		9/2/2020	ALS
Cadmium (Cd), total in soil/sludge	0.24	mg/Kg		9/2/2020	ALS
Calcium (Ca), total in soil/sludge	64200	mg/Kg		9/2/2020	ALS
Chromium (Cr), total in soil/sludge	32.9	mg/Kg		9/2/2020	ALS
Cobalt (Co), total in soil/sludge	10.4	mg/Kg		9/2/2020	ALS

Metals in Soil by CRC ICPMS

Copper (Cu), total in soil/sludge	25.0	mg/Kg	9/2/2020	ALS
Iron (Fe), total in soil/sludge	19600	mg/Kg	9/2/2020	ALS
Lead (Pb), total in soil/sludge	24.2	mg/Kg	9/2/2020	ALS
Lithium (Li), total in soil/sludge	20	mg/Kg	9/2/2020	ALS
Magnesium (Mg), total in soil/sludge	30800	mg/Kg	9/2/2020	ALS
Manganese (Mn), total in soil/sludge	435	mg/Kg	9/2/2020	ALS
Molybdenum (Mo), total in soil/sludge	0.6	mg/Kg	9/2/2020	ALS
Nickel (Ni), total in soil/sludge	29.9	mg/Kg	9/2/2020	ALS
Phosphorus (P), total in soil/sludge	467	mg/Kg	9/2/2020	ALS
Potassium (K), total in soil/sludge	3260	mg/Kg	9/2/2020	ALS
Selenium (Se), total in soil/sludge	<0.2	mg/Kg	9/2/2020	ALS
Silver (Ag), total in soil/sludge	<0.1	mg/Kg	9/2/2020	ALS
Sodium (Na), total in soil/sludge	738	mg/Kg	9/2/2020	ALS
Strontium (Sr), total in soil/sludge	80.8	mg/Kg	9/2/2020	ALS
Sulfur (S), total in soil/sludge	<1000	mg/Kg	9/2/2020	ALS
Thallium (Tl), total in soil/sludge	0.21	mg/Kg	9/2/2020	ALS
Tin (Sn), total in soil/sludge	<2	mg/Kg	9/2/2020	ALS
Titanium (Ti), total in soil/sludge	114	mg/Kg	9/2/2020	ALS
Tungsten (W), total in soil/sludge	<5.0	mg/Kg	9/2/2020	ALS
Uranium (U), total in soil/sludge	1.06	mg/Kg	9/2/2020	ALS
Vanadium (V), total in soil/sludge	48.7	mg/Kg	9/2/2020	ALS
Zinc (Zn), total in soil/sludge	78	mg/Kg	9/2/2020	ALS
Zirconium (Zr), total in soil/sludge	7	mg/Kg	9/2/2020	ALS

Sample No. : 330287
Sample Description : 30-60B-AGB
Sample Date : August 20, 2020
Sample Received : September 1, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Available Ammonium-N					
Available Ammonium-N in soil/sludge	6.30	mg/kg		9/1/2020	ALS
Loss on ignition @ 375 C					
Loss on Ignition at 375 degrees C.	4.00	%		9/1/2020	ALS
Organic Matter by LOI at 375 deg C.	3.40	%		9/1/2020	ALS
pH in Soil (soil:water Extraction)					
pH in soil	8.08	unit		9/1/2020	ALS
Available Nitrate-N					
Available Ammonium-N in soil/sludge	3.10	mg/kg		9/1/2020	ALS
Available Sulfate-S					
Available Sulfate-S in soil/sludge	175.00	mg/kg		9/1/2020	ALS
Plant Available Phosphorus and Potassium					
Available Phosphate-P in soil/sludge	3.6	mg/kg		9/1/2020	ALS
Available Potassium in soil/sludge	308.0	mg/kg		9/1/2020	ALS
Total Organic Carbon Calculation					
Total Organic Carbon by Calculation [TC-IC]	2.32	%		9/1/2020	ALS
Total Kjeldahl Nitrogen					
Total Kjeldahl Nitrogen	0.13	mg/Kg		9/1/2020	ALS
Saturated Paste					
% Saturation	122.00	%		9/1/2020	ALS
Conductivity Sat. Paste	1.63	mohm		9/1/2020	ALS
pH in Saturated Paste	8.00	unit		9/1/2020	ALS
Mercury in Soil					
Mercury (Hg)-Total in soil/sludge	0.030	mg/kg		9/1/2020	ALS
Moisture Content					
Moisture Content	24.3	%		9/1/2020	ALS
Metals in Soil by CRC ICPMS					
Aluminum (Al), total in soil/sludge	21400	mg/Kg		9/2/2020	ALS
Antimony (Sb), total in soil/sludge	0.3	mg/Kg		9/2/2020	ALS
Arsenic (As), total in soil/sludge	5.7	mg/Kg		9/2/2020	ALS
Barium (Ba), total in soil/sludge	151.0	mg/Kg		9/2/2020	ALS
Beryllium (Be), total in soil/sludge	1.0	mg/Kg		9/2/2020	ALS
Bismuth (Bi), total in soil/sludge	0.2	mg/Kg		9/2/2020	ALS
Boron (B), total in water	16	mg/Kg		9/2/2020	ALS
Cadmium (Cd), total in soil/sludge	0.17	mg/Kg		9/2/2020	ALS
Calcium (Ca), total in soil/sludge	40800	mg/Kg		9/2/2020	ALS

Metals in Soil by CRC ICPMS

Chromium (Cr), total in soil/sludge	39.6	mg/Kg	9/2/2020	ALS
Cobalt (Co), total in soil/sludge	10.4	mg/Kg	9/2/2020	ALS
Copper (Cu), total in soil/sludge	26.1	mg/Kg	9/2/2020	ALS
Iron (Fe), total in soil/sludge	24200	mg/Kg	9/2/2020	ALS
Lead (Pb), total in soil/sludge	19.4	mg/Kg	9/2/2020	ALS
Lithium (Li), total in soil/sludge	28	mg/Kg	9/2/2020	ALS
Magnesium (Mg), total in soil/sludge	22800	mg/Kg	9/2/2020	ALS
Manganese (Mn), total in soil/sludge	324	mg/Kg	9/2/2020	ALS
Molybdenum (Mo), total in soil/sludge	0.5	mg/Kg	9/2/2020	ALS
Nickel (Ni), total in soil/sludge	31.4	mg/Kg	9/2/2020	ALS
Phosphorus (P), total in soil/sludge	437	mg/Kg	9/2/2020	ALS
Potassium (K), total in soil/sludge	4400	mg/Kg	9/2/2020	ALS
Selenium (Se), total in soil/sludge	<0.2	mg/Kg	9/2/2020	ALS
Silver (Ag), total in soil/sludge	0.1	mg/Kg	9/2/2020	ALS
Sodium (Na), total in soil/sludge	502	mg/Kg	9/2/2020	ALS
Strontium (Sr), total in soil/sludge	67.7	mg/Kg	9/2/2020	ALS
Sulfur (S), total in soil/sludge	<1000	mg/Kg	9/2/2020	ALS
Thallium (Tl), total in soil/sludge	0.31	mg/Kg	9/2/2020	ALS
Tin (Sn), total in soil/sludge	<2	mg/Kg	9/2/2020	ALS
Titanium (Ti), total in soil/sludge	152	mg/Kg	9/2/2020	ALS
Tungsten (W), total in soil/sludge	<5.0	mg/Kg	9/2/2020	ALS
Uranium (U), total in soil/sludge	1.20	mg/Kg	9/2/2020	ALS
Vanadium (V), total in soil/sludge	58.2	mg/Kg	9/2/2020	ALS
Zinc (Zn), total in soil/sludge	74	mg/Kg	9/2/2020	ALS
Zirconium (Zr), total in soil/sludge	10	mg/Kg	9/2/2020	ALS

Reference Information

The Analytical Services Branch is accredited by CALA in accordance with ISO 17025 standards for specific tests.

Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4

Additional Comments :

- 1) A quality control report can be provided upon request. These reports may contain quality control results from other samples not included in this test report.
- 2) Analytical Services Branch test methods may incorporate modifications from specified reference methods to improve performance.
- 3) For subcontracted testing, the certificate of analysis can be provided upon request.
- 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

END OF REPORT



Report To :

Mr. Chris Kozak

Solid Waste Services Division
1120 Waverley Street
Winnipeg MB R3E 3S8

Report Date : October 2, 2020

Phone : 204-986-2384

Email : ckozak@winnipeg.ca

Certificate of Analysis Job No. 548

Date Authorised : October 2, 2020

Total Number of Pages : 10

This report is issued under the authority of :

Brock Bradford

Analytical Services Branch Head

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The results relate only to the sample(s) as received by the laboratory.

Additional information regarding the test methods used by Analytical Services Branch or contract laboratory is available upon request.

Sample No. : 320036
Sample Description : GWQ25-W10
Sample Date : July 23, 2020
Sample Received : July 23, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	138 ± 2.8%	mg/L		7/24/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/24/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/24/2020	COW_ASB
Alkalinity, total to pH 4.5	138 ± 2.8%	mg/L		7/24/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/24/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.37 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.014 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.5	mg/L		8/24/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.5 ± 15%	mg/L		8/24/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	584 ± 6%	mg/L		7/26/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	835 ± 10%	mg/L		7/26/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	85.0 ± 6.1%	mg/L		8/5/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8290 ± 7.2%	uS		7/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.47 ± 0.07 units	units		7/23/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5950 ± 6.2%	mg/L		7/24/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5770 ± 6.5%	mg/L		7/25/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	183.0	mg/L		7/25/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	3.2 ± 13%	mg/L		7/31/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.3 ± 13%	mg/L		8/10/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		8/11/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.005768 ± 8.1%	mg/L	8/11/2020	COW_ASB
Barium (Ba), total in water	0.013162 ± 11.8%	mg/L	8/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	8/11/2020	COW_ASB
Boron (B), total in water	1.1202 ± 24.2%	mg/L	8/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/11/2020	COW_ASB
Calcium (Ca), total in water	363.44 ± 20.9%	mg/L	8/11/2020	COW_ASB
Chromium (Cr), total in water	0.00482 ± 12.8%	mg/L	8/11/2020	COW_ASB
Copper (Cu), total in water	0.000546 ± 12.1%	mg/L	8/11/2020	COW_ASB
Iron (Fe), total in water	1.1389 ± 9.7%	mg/L	8/11/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	8/11/2020	COW_ASB
Magnesium (Mg), total in water	167.93 ± 10.5%	mg/L	8/11/2020	COW_ASB
Manganese (Mn), total in water	0.01824 ± 11.2%	mg/L	8/11/2020	COW_ASB
Nickel (Ni), total in water	0.001668 ± 12.2%	mg/L	8/11/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	8/11/2020	COW_ASB
Potassium (K), total in water	44.326 ± 18.3%	mg/L	8/11/2020	COW_ASB
Selenium (Se), total in water	0.00183 ± 8.0%	mg/L	8/11/2020	COW_ASB
Sodium (Na), total in water	1523.3 ± 9.2%	mg/L	8/11/2020	COW_ASB
Uranium (U), total in water	0.000203 ± 10.0%	mg/L	8/11/2020	COW_ASB
Zinc (Zn), total in water	<0.00011 ± 10.7%	mg/L	8/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	908	mg/L	8/11/2020	COW_ASB
Total Hardness, calculated in water	1600	mg/L	8/11/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	3.83 ± 4.4%	NTU	7/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	169.00	mg/L	7/31/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	139.00	mg/L	7/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	7/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	7/31/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.30	mg/L	7/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	24.4	mg/L	7/31/2020	ALS
Dissolved Organic Carbon	3.1	mg/L	7/31/2020	ALS
Total Dissolved Carbon by Calculation	27.6	mg/L	7/31/2020	ALS

Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	7/31/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	7/31/2020	ALS

Total Metals by ICP-MS

Arsenic (As), dissolved in water	0.00573	mg/L	7/31/2020	ALS
Barium (Ba), dissolved in water	0.0126	mg/L	7/31/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	7/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	7/31/2020	ALS
Boron (B), dissolved in water	0.9740	mg/L	7/31/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	7/31/2020	ALS
Calcium (Ca), dissolved in water	281.0000	mg/L	7/31/2020	ALS
Cesium (Cs), dissolved in water	0.000101	mg/L	7/31/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	7/31/2020	ALS
Cobalt (Co), dissolved in water	0.00030	mg/L	7/31/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	7/31/2020	ALS
Hardness dissolved in water, calculated	1298.8	mg/L	7/31/2020	ALS
Iron (Fe), dissolved in water	0.9190	mg/L	7/31/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	7/31/2020	ALS
Lithium (Li), dissolved in water	0.3450	mg/L	7/31/2020	ALS
Magnesium (Mg), dissolved in water	145.0000	mg/L	7/31/2020	ALS
Manganese (Mn), dissolved in water	0.0152	mg/L	7/31/2020	ALS
Molybdenum (Mo), dissolved in water	0.003200	mg/L	7/31/2020	ALS
Nickel (Ni), dissolved in water	0.00147	mg/L	7/31/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	7/31/2020	ALS
Potassium (K), dissolved in water	38.3000	mg/L	7/31/2020	ALS
Rubidium (Rb), dissolved in water	0.0184	mg/L	7/31/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	7/31/2020	ALS
Silicon (Si), dissolved in water	4.4800	mg/L	7/31/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	7/31/2020	ALS
Sodium (Na), dissolved in water	1450.0000	mg/L	7/31/2020	ALS
Strontium (Sr), dissolved in water	3.9800	mg/L	7/31/2020	ALS
Sulfur (S), dissolved in water	312.0000	mg/L	7/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	7/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	7/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	7/31/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	7/31/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	7/31/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	7/31/2020	ALS
Uranium (U), dissolved in water	0.000724	mg/L	7/31/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	7/31/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	7/31/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	7/31/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	7/31/2020	ALS
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Chromium +6

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/31/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2570.000	mg/L	7/31/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	7/31/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.005	mg/L	7/31/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	838.00	mg/L	7/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	7/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	7/31/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	7/31/2020	ALS
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Sample No. : 320037
Sample Description : GWQ25-W10R
Sample Date : July 23, 2020
Sample Received : July 23, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	158 ± 2.8%	mg/L		7/24/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		7/24/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		7/24/2020	COW_ASB
Alkalinity, total to pH 4.5	158 ± 2.8%	mg/L		7/24/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		7/24/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.13 ± 16.9%	mg/L		8/4/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.014 ± 7.8%	mg/L		8/4/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		8/4/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.5	mg/L		8/24/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.5 ± 15%	mg/L		8/24/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	234 ± 6%	mg/L		7/26/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	848 ± 10%	mg/L		7/26/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	80.0 ± 6.1%	mg/L		8/5/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8210 ± 7.2%	uS		7/31/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.50 ± 0.07 units	units		7/23/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5930 ± 6.2%	mg/L		7/24/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5510 ± 6.5%	mg/L		7/25/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	421.0	mg/L		7/25/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.8 ± 13%	mg/L		7/31/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.5 ± 13%	mg/L		8/10/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000099 ± 9.2%	mg/L		8/11/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.004942 ± 8.1%	mg/L	8/11/2020	COW_ASB
Barium (Ba), total in water	0.030913 ± 11.8%	mg/L	8/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	8/11/2020	COW_ASB
Boron (B), total in water	1.1728 ± 24.2%	mg/L	8/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/11/2020	COW_ASB
Calcium (Ca), total in water	356.16 ± 20.9%	mg/L	8/11/2020	COW_ASB
Chromium (Cr), total in water	0.00733 ± 12.8%	mg/L	8/11/2020	COW_ASB
Copper (Cu), total in water	0.006234 ± 12.1%	mg/L	8/11/2020	COW_ASB
Iron (Fe), total in water	4.5943 ± 9.7%	mg/L	8/11/2020	COW_ASB
Lead (Pb), total in water	0.002028 ± 8.3%	mg/L	8/11/2020	COW_ASB
Magnesium (Mg), total in water	161.61 ± 10.5%	mg/L	8/11/2020	COW_ASB
Manganese (Mn), total in water	0.10451 ± 11.2%	mg/L	8/11/2020	COW_ASB
Nickel (Ni), total in water	0.004941 ± 12.2%	mg/L	8/11/2020	COW_ASB
Phosphorus (P), total in water	0.0672	mg/L	8/11/2020	COW_ASB
Potassium (K), total in water	46.246 ± 18.3%	mg/L	8/11/2020	COW_ASB
Selenium (Se), total in water	0.00184 ± 8.0%	mg/L	8/11/2020	COW_ASB
Sodium (Na), total in water	1442.3 ± 9.2%	mg/L	8/11/2020	COW_ASB
Uranium (U), total in water	0.000532 ± 10.0%	mg/L	8/11/2020	COW_ASB
Zinc (Zn), total in water	0.01882 ± 10.7%	mg/L	8/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	889	mg/L	8/11/2020	COW_ASB
Total Hardness, calculated in water	1550	mg/L	8/11/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	82.60 ± 4.4%	NTU	7/23/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.6310	mg/L	7/31/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	7/31/2020	ALS
Arsenic (As), dissolved in water	0.00473	mg/L	7/31/2020	ALS
Barium (Ba), dissolved in water	0.0207	mg/L	7/31/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	7/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	7/31/2020	ALS
Boron (B), dissolved in water	0.9990	mg/L	7/31/2020	ALS
Cadmium (Cd), dissolved in water	0.000019	mg/L	7/31/2020	ALS
Calcium (Ca), dissolved in water	291.0000	mg/L	7/31/2020	ALS
Cesium (Cs), dissolved in water	0.000173	mg/L	7/31/2020	ALS
Chromium (Cr), dissolved in water	0.00509	mg/L	7/31/2020	ALS
Cobalt (Co), dissolved in water	0.00089	mg/L	7/31/2020	ALS
Copper (Cu), dissolved in water	0.00394	mg/L	7/31/2020	ALS
Hardness dissolved in water, calculated	1352.6	mg/L	7/31/2020	ALS
Iron (Fe), dissolved in water	2.7500	mg/L	7/31/2020	ALS
Lead (Pb), dissolved in water	0.002050	mg/L	7/31/2020	ALS

Total Metals by ICP-MS

Lithium (Li), dissolved in water	0.3570	mg/L	7/31/2020	ALS
Magnesium (Mg), dissolved in water	152.0000	mg/L	7/31/2020	ALS
Manganese (Mn), dissolved in water	0.0670	mg/L	7/31/2020	ALS
Molybdenum (Mo), dissolved in water	0.006840	mg/L	7/31/2020	ALS
Nickel (Ni), dissolved in water	0.00304	mg/L	7/31/2020	ALS
Phosphorus (P), dissolved in water	0.056	mg/L	7/31/2020	ALS
Potassium (K), dissolved in water	38.4000	mg/L	7/31/2020	ALS
Rubidium (Rb), dissolved in water	0.0202	mg/L	7/31/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	7/31/2020	ALS
Silicon (Si), dissolved in water	6.1300	mg/L	7/31/2020	ALS
Silver (Ag), dissolved in water	0.000049	mg/L	7/31/2020	ALS
Sodium (Na), dissolved in water	1420.0000	mg/L	7/31/2020	ALS
Strontium (Sr), dissolved in water	3.8800	mg/L	7/31/2020	ALS
Sulfur (S), dissolved in water	306.0000	mg/L	7/31/2020	ALS
Tellurium (Te), dissolved in water	0.00025	mg/L	7/31/2020	ALS
Thallium (Tl), dissolved in water	0.000012	mg/L	7/31/2020	ALS
Thorium (Th), dissolved in water	0.00095	mg/L	7/31/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	7/31/2020	ALS
Titanium (Ti), dissolved in water	0.02160	mg/L	7/31/2020	ALS
Tungsten (W), dissolved in water	0.00464	mg/L	7/31/2020	ALS
Uranium (U), dissolved in water	0.000871	mg/L	7/31/2020	ALS
Vanadium (V), dissolved in water	0.00124	mg/L	7/31/2020	ALS
Zinc (Zn), dissolved in water	0.0092	mg/L	7/31/2020	ALS
Zirconium (Zr), dissolved in water	0.00089	mg/L	7/31/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.000050	mg/L	7/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	7/31/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	7/31/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	7/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	5	MPN/100mL	7/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	1	MPN/100mL	7/31/2020	ALS
Total Coliforms by QT97	613	MPN/100mL	7/31/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	200.00	mg/L	7/31/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	164.00	mg/L	10/2/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	7/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	7/31/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.34	mg/L	10/2/2020	ALS
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Carbons

Dissolved Inorganic Carbon	23.9	mg/L	10/2/2020	ALS
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Dissolved Organic Carbon	24.4	mg/L	10/2/2020	ALS
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Total Dissolved Carbon by Calculation	48.3	mg/L	10/2/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2500.000	mg/L	7/31/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	846.00	mg/L	7/31/2020	ALS
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Reference Information

The Analytical Services Branch is accredited by CALA in accordance with ISO 17025 standards for specific tests.

Accredited Test Methods Used :**Test Method**

Alkalinity by Titration

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

COD by Closed Reflux Method

Conductivity by Electrometric Method

Dissolved Organic Carbon by High Temperature Combustion

Dissolved Solids by Gravimetric Analysis

Hardness, Calcium & Total by Calculation

Metals Total in Water by ICP-MS

pH in Laboratory by Electrometric Method

Total Kjeldahl Nitrogen Calculated

Total Nitrogen by High Temperature Combustion

Total Organic Carbon by High Temperature Combustion

Total Solids by Gravimetric Analysis

Total Suspended Solids by Gravimetric Analysis

Turbidity in Laboratory by Nephelometric Method

Reference Method

Modified from SM 2320 B. Titration Method

Modified from SM 4500-NH3 H. NO3 I & P G. Flow Injection Analysis

Modified from SM 5220 D. Closed Reflux, Colorimetric Method

Modified from SM 2510 B. Laboratory Measurement

Modified from SM 5310 B. High Temperature Combustion

Modified from SM 2540 C. Total Dissolved Solids Dried at 180°C

Modified from EPA Methods 200.8

Modified from EPA Methods 200.8

Modified from SM 4500 H+B (Electrometric Method)

Modified from SM 5310 B. High Temperature Combustion and SM 4500-NO3 I. Flow Injection Analysis

Modified from SM 5310 B. High Temperature Combustion

Modified from SM 5310 B. High Temperature Combustion

Modified from SM 2540 B. Total Solids Dried at 103-105°C

Modified from SM 2540 D. Total Suspended Solids Dried at 103-105°C

Modified from SM 2130 A. Turbidity & 2130 B. Nephelometric Method

Additional Test Methods Used :**Test Method**

Chloride by Mercuric Thiocyanate Method

Sulfate by HACH Method

Reference Method

Modified from SM 4500Cl-G Mercuric Thiocyanate & HACH Method 8113

Modified from HACH Method 8051, SulfaVer 4, & SM 4500-SO4-2 E. Turbidimetric

Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4

COW_ASB : City of Winnipeg Main Laboratory at NEWPCC, 2230 Main Street, Winnipeg, MB R2V 4T8

Additional Comments :

- 1) A quality control report can be provided upon request. These reports may contain quality control results from other samples not included in this test report.
- 2) Analytical Services Branch test methods may incorporate modifications from specified reference methods to improve performance.
- 3) For subcontracted testing, the certificate of analysis can be provided upon request.
- 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

----- **END OF REPORT** -----

Report To :

Mr. Chris KozakSolid Waste Services Division
1120 Waverley Street
Winnipeg MB R3E 3S8

Report Date : October 26, 2020

Phone : 204-986-2384

Email : ckozak@winnipeg.ca

Certificate of Analysis Job No. 549

Date Authorised : October 26, 2020

Total Number of Pages : 54

This report is issued under the authority of :

Brock Bradford

Analytical Services Branch Head

This report shall not be reproduced except in full without the written approval of the laboratory.

The results relate only to the sample(s) as received by the laboratory.

Additional information regarding the test methods used by Analytical Services Branch or contract laboratory is available upon request.

Sample No. : 320078
Sample Description : SWQ25-12
Sample Date : August 18, 2020
Sample Received : August 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	235 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, total to pH 4.5	235 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		8/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.072 ± 16.9%	mg/L		8/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.030 ± 7.8%	mg/L		8/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		8/26/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1.8	mg/L		8/31/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1.8 ± 15%	mg/L		8/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	155 ± 6%	mg/L		8/22/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	890 ± 10%	mg/L		8/23/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	9 ± 15%	mg/L		8/23/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	188 ± 6.1%	mg/L		9/3/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2410 ± 7.2%	uS		8/19/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.57 ± 0.07 units	units		8/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	2120 ± 6.5%	mg/L		8/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	281.0	mg/L		8/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	2400 ± 6.2%	mg/L		8/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	15.1 ± 13%	mg/L		8/20/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	23.9 ± 13%	mg/L		8/20/2020	COW_ASB

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	8/23/2020	COW_ASB
Arsenic (As), total in water	0.002018 ± 8.1%	mg/L	8/23/2020	COW_ASB
Barium (Ba), total in water	0.077175 ± 11.8%	mg/L	8/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	8/23/2020	COW_ASB
Boron (B), total in water	0.41121 ± 24.2%	mg/L	8/23/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/23/2020	COW_ASB
Calcium (Ca), total in water	180.23 ± 20.9%	mg/L	8/23/2020	COW_ASB
Chromium (Cr), total in water	0.00082 ± 12.8%	mg/L	8/23/2020	COW_ASB
Copper (Cu), total in water	0.005015 ± 12.1%	mg/L	8/23/2020	COW_ASB
Iron (Fe), total in water	1.7432 ± 9.7%	mg/L	8/23/2020	COW_ASB
Lead (Pb), total in water	0.000605 ± 8.3%	mg/L	8/23/2020	COW_ASB
Magnesium (Mg), total in water	185.00 ± 10.5%	mg/L	8/23/2020	COW_ASB
Manganese (Mn), total in water	1.3361 ± 11.2%	mg/L	8/23/2020	COW_ASB
Nickel (Ni), total in water	0.006059 ± 12.2%	mg/L	8/23/2020	COW_ASB
Phosphorus (P), total in water	1.4381	mg/L	8/23/2020	COW_ASB
Potassium (K), total in water	21.803 ± 18.3%	mg/L	8/23/2020	COW_ASB
Selenium (Se), total in water	0.00022 ± 8.0%	mg/L	8/23/2020	COW_ASB
Sodium (Na), total in water	112.01 ± 9.2%	mg/L	8/23/2020	COW_ASB
Uranium (U), total in water	0.047421 ± 10.0%	mg/L	8/23/2020	COW_ASB
Zinc (Zn), total in water	0.07401 ± 10.7%	mg/L	8/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	450	mg/L	8/24/2020	COW_ASB
Total Hardness, calculated in water	1210	mg/L	8/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	9.11 ± 4.4%	NTU	8/18/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	291.00	mg/L	8/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	8/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	8/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	56.1	mg/L	8/31/2020	ALS
Dissolved Organic Carbon	15.0	mg/L	8/31/2020	ALS
Total Dissolved Carbon by Calculation	71.1	mg/L	8/31/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	208.000	mg/L	8/31/2020	ALS
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Cyanide

Cyanide, Total in water	0.0011	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0050	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Antimony (Sb), dissolved in water	0.000530	mg/L	8/31/2020	ALS
Arsenic (As), dissolved in water	0.00172	mg/L	8/31/2020	ALS
Barium (Ba), dissolved in water	0.0631	mg/L	8/31/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Boron (B), dissolved in water	0.1000	mg/L	8/31/2020	ALS
Cadmium (Cd), dissolved in water	0.000009	mg/L	8/31/2020	ALS
Calcium (Ca), dissolved in water	203.0000	mg/L	8/31/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Cobalt (Co), dissolved in water	0.00188	mg/L	8/31/2020	ALS
Copper (Cu), dissolved in water	0.00186	mg/L	8/31/2020	ALS
Hardness dissolved in water, calculated	1363.4	mg/L	8/31/2020	ALS
Iron (Fe), dissolved in water	0.4740	mg/L	8/31/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Lithium (Li), dissolved in water	0.2030	mg/L	8/31/2020	ALS
Magnesium (Mg), dissolved in water	208.0000	mg/L	8/31/2020	ALS
Manganese (Mn), dissolved in water	0.7330	mg/L	8/31/2020	ALS
Molybdenum (Mo), dissolved in water	0.006230	mg/L	8/31/2020	ALS
Nickel (Ni), dissolved in water	0.00379	mg/L	8/31/2020	ALS
Phosphorus (P), dissolved in water	0.086	mg/L	8/31/2020	ALS
Potassium (K), dissolved in water	18.1000	mg/L	8/31/2020	ALS
Rubidium (Rb), dissolved in water	0.0024	mg/L	8/31/2020	ALS
Selenium (Se), dissolved in water	0.000312	mg/L	8/31/2020	ALS
Silicon (Si), dissolved in water	1.4000	mg/L	8/31/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Sodium (Na), dissolved in water	136.0000	mg/L	8/31/2020	ALS
Strontium (Sr), dissolved in water	0.9480	mg/L	8/31/2020	ALS
Sulfur (S), dissolved in water	302.0000	mg/L	8/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Tin (Sn), dissolved in water	0.00312	mg/L	8/31/2020	ALS
Titanium (Ti), dissolved in water	0.00034	mg/L	8/31/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Uranium (U), dissolved in water	0.039800	mg/L	8/31/2020	ALS
Vanadium (V), dissolved in water	0.00095	mg/L	8/31/2020	ALS
Zinc (Zn), dissolved in water	0.0162	mg/L	8/31/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	8/31/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		8/31/2020	ALS
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Mercury in Water

Mercury (Hg) dissolved in water	<0.0000050	mg/L	8/31/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	1020.00	mg/L	8/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	166	MPN/100mL	8/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	157	MPN/100mL	8/31/2020	ALS
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Total Coliforms by QT97	>2420	MPN/100mL	8/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	8/31/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	239.00	mg/L	10/15/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.18	mg/L	10/15/2020	ALS
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Sample No. : 320081
Sample Description : SWQ25-6
Sample Date : August 18, 2020
Sample Received : August 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	2290 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, carbonate, calculated	215 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, total to pH 4.5	2510 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	108 ± 2.8%	mg/L		8/19/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	>2.000 ± 16.9%	mg/L		8/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		8/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.808 ± 7.5%	mg/L		8/26/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	157	mg/L		8/31/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	157 ± 15%	mg/L		8/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1480 ± 6%	mg/L		8/22/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	298 ± 10%	mg/L		8/23/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		8/23/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	1450 ± 6.1%	mg/L		9/3/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	7760 ± 7.2%	uS		8/19/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.28 ± 0.07 units	units		8/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5590 ± 6.5%	mg/L		8/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	359.0	mg/L		8/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5950 ± 6.2%	mg/L		8/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	491 ± 13%	mg/L		8/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	493.7 ± 13%	mg/L		8/20/2020	COW_ASB

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	8/23/2020	COW_ASB
Arsenic (As), total in water	0.037216 ± 8.1%	mg/L	8/23/2020	COW_ASB
Barium (Ba), total in water	0.20086 ± 11.8%	mg/L	8/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	8/23/2020	COW_ASB
Boron (B), total in water	14.940 ± 24.2%	mg/L	8/23/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/23/2020	COW_ASB
Calcium (Ca), total in water	77.817 ± 20.9%	mg/L	8/23/2020	COW_ASB
Chromium (Cr), total in water	0.09230 ± 12.8%	mg/L	8/23/2020	COW_ASB
Copper (Cu), total in water	0.010571 ± 12.1%	mg/L	8/23/2020	COW_ASB
Iron (Fe), total in water	1.7309 ± 9.7%	mg/L	8/23/2020	COW_ASB
Lead (Pb), total in water	0.000739 ± 8.3%	mg/L	8/23/2020	COW_ASB
Magnesium (Mg), total in water	329.22 ± 10.5%	mg/L	8/23/2020	COW_ASB
Manganese (Mn), total in water	0.09084 ± 11.2%	mg/L	8/23/2020	COW_ASB
Nickel (Ni), total in water	0.22289 ± 12.2%	mg/L	8/23/2020	COW_ASB
Phosphorus (P), total in water	3.1151	mg/L	8/23/2020	COW_ASB
Potassium (K), total in water	232.80 ± 18.3%	mg/L	8/23/2020	COW_ASB
Selenium (Se), total in water	0.00875 ± 8.0%	mg/L	8/23/2020	COW_ASB
Sodium (Na), total in water	919.01 ± 9.2%	mg/L	8/23/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	8/23/2020	COW_ASB
Zinc (Zn), total in water	0.02256 ± 10.7%	mg/L	8/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	194	mg/L	8/24/2020	COW_ASB
Total Hardness, calculated in water	1550	mg/L	8/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	113.00 ± 4.4%	NTU	8/18/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	2960.00	mg/L	8/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	113.00	mg/L	8/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	8/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	189.0	mg/L	8/31/2020	ALS
Dissolved Organic Carbon	641.0	mg/L	8/31/2020	ALS
Total Dissolved Carbon by Calculation	831.0	mg/L	8/31/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1260.000	mg/L	8/31/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0100	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0482	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Antimony (Sb), dissolved in water	0.000830	mg/L	8/31/2020	ALS
Arsenic (As), dissolved in water	0.05730	mg/L	8/31/2020	ALS
Barium (Ba), dissolved in water	0.1960	mg/L	8/31/2020	ALS
Beryllium (Be), dissolved in water	0.00018	mg/L	8/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Boron (B), dissolved in water	15.2000	mg/L	8/31/2020	ALS
Cadmium (Cd), dissolved in water	0.000021	mg/L	8/31/2020	ALS
Calcium (Ca), dissolved in water	31.7000	mg/L	8/31/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Chromium (Cr), dissolved in water	0.08820	mg/L	8/31/2020	ALS
Cobalt (Co), dissolved in water	0.02650	mg/L	8/31/2020	ALS
Copper (Cu), dissolved in water	0.00147	mg/L	8/31/2020	ALS
Hardness dissolved in water, calculated	1528.7	mg/L	8/31/2020	ALS
Iron (Fe), dissolved in water	0.6860	mg/L	8/31/2020	ALS
Lead (Pb), dissolved in water	0.000347	mg/L	8/31/2020	ALS
Lithium (Li), dissolved in water	0.2520	mg/L	8/31/2020	ALS
Magnesium (Mg), dissolved in water	352.0000	mg/L	8/31/2020	ALS
Manganese (Mn), dissolved in water	0.0713	mg/L	8/31/2020	ALS
Molybdenum (Mo), dissolved in water	0.001330	mg/L	8/31/2020	ALS
Nickel (Ni), dissolved in water	0.18500	mg/L	8/31/2020	ALS
Phosphorus (P), dissolved in water	2.940	mg/L	8/31/2020	ALS
Potassium (K), dissolved in water	254.0000	mg/L	8/31/2020	ALS
Rubidium (Rb), dissolved in water	0.0464	mg/L	8/31/2020	ALS
Selenium (Se), dissolved in water	0.001290	mg/L	8/31/2020	ALS
Silicon (Si), dissolved in water	12.2000	mg/L	8/31/2020	ALS
Silver (Ag), dissolved in water	0.000029	mg/L	8/31/2020	ALS
Sodium (Na), dissolved in water	1130.0000	mg/L	8/31/2020	ALS
Strontium (Sr), dissolved in water	0.9510	mg/L	8/31/2020	ALS
Sulfur (S), dissolved in water	57.1000	mg/L	8/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Tin (Sn), dissolved in water	0.00193	mg/L	8/31/2020	ALS
Titanium (Ti), dissolved in water	0.06980	mg/L	8/31/2020	ALS
Tungsten (W), dissolved in water	0.00084	mg/L	8/31/2020	ALS
Uranium (U), dissolved in water	0.001220	mg/L	8/31/2020	ALS
Vanadium (V), dissolved in water	0.04080	mg/L	8/31/2020	ALS
Zinc (Zn), dissolved in water	0.0081	mg/L	8/31/2020	ALS
Zirconium (Zr), dissolved in water	0.01500	mg/L	8/31/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		8/31/2020	ALS
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Mercury in Water

Mercury (Hg) dissolved in water	<0.0000500	mg/L	8/31/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	239.00	mg/L	8/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	0.00056	mg/L	8/31/2020	ALS
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Total and E. coli, 1:10 dilution by QT97

Escherichia Coliform by QT97	6130	MPN/100mL	8/31/2020	ALS
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Total Coliforms by QT97	15500	MPN/100mL	8/31/2020	ALS
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Fecal coliforms, 1:10 dilution by QT97

Fecal Coliforms, 1:10 dilution by QT97	4880	MPN/100mL	8/31/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	2610.00	mg/L	10/15/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	51.10	mg/L	10/15/2020	ALS
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Sample No. : 320082
Sample Description : SWQ25-7
Sample Date : August 18, 2020
Sample Received : August 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	130 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, carbonate, calculated	106 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, total to pH 4.5	236 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	53.1 ± 2.8%	mg/L		8/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.024 ± 16.9%	mg/L		8/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		8/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		8/26/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	6.4	mg/L		8/31/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	6.4 ± 15%	mg/L		8/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	284 ± 6%	mg/L		8/22/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	362 ± 10%	mg/L		8/23/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	18 ± 15%	mg/L		8/23/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	184 ± 6.1%	mg/L		9/3/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1870 ± 7.2%	uS		8/19/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	9.48 ± 0.07 units	units		8/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1480 ± 6.5%	mg/L		8/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	73.0	mg/L		8/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1560 ± 6.2%	mg/L		8/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	47.7 ± 13%	mg/L		8/20/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	61.4 ± 13%	mg/L		8/20/2020	COW_ASB

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	0.002279 ± 9.2%	mg/L	8/23/2020	COW_ASB
Arsenic (As), total in water	0.017098 ± 8.1%	mg/L	8/23/2020	COW_ASB
Barium (Ba), total in water	0.061184 ± 11.8%	mg/L	8/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	8/23/2020	COW_ASB
Boron (B), total in water	0.11018 ± 24.2%	mg/L	8/23/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/23/2020	COW_ASB
Calcium (Ca), total in water	38.664 ± 20.9%	mg/L	8/23/2020	COW_ASB
Chromium (Cr), total in water	0.00075 ± 12.8%	mg/L	8/23/2020	COW_ASB
Copper (Cu), total in water	0.002600 ± 12.1%	mg/L	8/23/2020	COW_ASB
Iron (Fe), total in water	0.19345 ± 9.7%	mg/L	8/23/2020	COW_ASB
Lead (Pb), total in water	0.000088 ± 8.3%	mg/L	8/23/2020	COW_ASB
Magnesium (Mg), total in water	119.42 ± 10.5%	mg/L	8/23/2020	COW_ASB
Manganese (Mn), total in water	0.05757 ± 11.2%	mg/L	8/23/2020	COW_ASB
Nickel (Ni), total in water	0.009636 ± 12.2%	mg/L	8/23/2020	COW_ASB
Phosphorus (P), total in water	0.4178	mg/L	8/23/2020	COW_ASB
Potassium (K), total in water	59.856 ± 18.3%	mg/L	8/23/2020	COW_ASB
Selenium (Se), total in water	0.00059 ± 8.0%	mg/L	8/23/2020	COW_ASB
Sodium (Na), total in water	134.94 ± 9.2%	mg/L	8/23/2020	COW_ASB
Uranium (U), total in water	0.005483 ± 10.0%	mg/L	8/23/2020	COW_ASB
Zinc (Zn), total in water	0.01189 ± 10.7%	mg/L	8/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	96.5	mg/L	8/24/2020	COW_ASB
Total Hardness, calculated in water	588	mg/L	8/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	32.90 ± 4.4%	NTU	8/18/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	246.00	mg/L	8/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	23.80	mg/L	8/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	8/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	40.1	mg/L	8/31/2020	ALS
Dissolved Organic Carbon	49.1	mg/L	8/31/2020	ALS
Total Dissolved Carbon by Calculation	89.2	mg/L	8/31/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	299.000	mg/L	8/31/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0013	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Antimony (Sb), dissolved in water	0.001010	mg/L	8/31/2020	ALS
Arsenic (As), dissolved in water	0.01990	mg/L	8/31/2020	ALS
Barium (Ba), dissolved in water	0.0570	mg/L	8/31/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Boron (B), dissolved in water	0.1420	mg/L	8/31/2020	ALS
Cadmium (Cd), dissolved in water	0.000005	mg/L	8/31/2020	ALS
Calcium (Ca), dissolved in water	45.3000	mg/L	8/31/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Cobalt (Co), dissolved in water	0.00075	mg/L	8/31/2020	ALS
Copper (Cu), dissolved in water	0.00067	mg/L	8/31/2020	ALS
Hardness dissolved in water, calculated	673.2	mg/L	8/31/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	8/31/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Lithium (Li), dissolved in water	0.1620	mg/L	8/31/2020	ALS
Magnesium (Mg), dissolved in water	136.0000	mg/L	8/31/2020	ALS
Manganese (Mn), dissolved in water	0.0064	mg/L	8/31/2020	ALS
Molybdenum (Mo), dissolved in water	0.005210	mg/L	8/31/2020	ALS
Nickel (Ni), dissolved in water	0.00751	mg/L	8/31/2020	ALS
Phosphorus (P), dissolved in water	0.069	mg/L	8/31/2020	ALS
Potassium (K), dissolved in water	68.0000	mg/L	8/31/2020	ALS
Rubidium (Rb), dissolved in water	0.0023	mg/L	8/31/2020	ALS
Selenium (Se), dissolved in water	0.000398	mg/L	8/31/2020	ALS
Silicon (Si), dissolved in water	3.8900	mg/L	8/31/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Sodium (Na), dissolved in water	165.0000	mg/L	8/31/2020	ALS
Strontium (Sr), dissolved in water	0.4800	mg/L	8/31/2020	ALS
Sulfur (S), dissolved in water	114.0000	mg/L	8/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Tin (Sn), dissolved in water	0.00290	mg/L	8/31/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	8/31/2020	ALS
Tungsten (W), dissolved in water	0.00013	mg/L	8/31/2020	ALS
Uranium (U), dissolved in water	0.005240	mg/L	8/31/2020	ALS
Vanadium (V), dissolved in water	0.01000	mg/L	8/31/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	8/31/2020	ALS
Zirconium (Zr), dissolved in water	0.00036	mg/L	8/31/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		8/31/2020	ALS
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Mercury in Water

Mercury (Hg) dissolved in water	<0.0000050	mg/L	8/31/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	376.00	mg/L	8/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	105	MPN/100mL	8/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	116	MPN/100mL	8/31/2020	ALS
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Total Coliforms by QT97	>2420	MPN/100mL	8/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	8/31/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	241.00	mg/L	10/15/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.06	mg/L	10/15/2020	ALS
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Sample No. : 320083
Sample Description : SWQ25-8
Sample Date : August 18, 2020
Sample Received : August 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	613 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, carbonate, calculated	97.8 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, total to pH 4.5	711 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	48.9 ± 2.8%	mg/L		8/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.913 ± 16.9%	mg/L		8/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	1.09 ± 7.8%	mg/L		8/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	3.56 ± 7.5%	mg/L		8/26/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	8.8	mg/L		8/31/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	9.9 ± 15%	mg/L		8/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	336 ± 6%	mg/L		8/22/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	258 ± 10%	mg/L		8/23/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		8/23/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	359 ± 6.1%	mg/L		9/3/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2540 ± 7.2%	uS		8/19/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.54 ± 0.07 units	units		8/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1950 ± 6.5%	mg/L		8/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	202.0	mg/L		8/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	2160 ± 6.2%	mg/L		8/19/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	126.9 ± 13%	mg/L		8/20/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001192 ± 9.2%	mg/L		8/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.014456 ± 8.1%	mg/L	8/23/2020	COW_ASB
Barium (Ba), total in water	0.090601 ± 11.8%	mg/L	8/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	8/23/2020	COW_ASB
Boron (B), total in water	0.31796 ± 24.2%	mg/L	8/23/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/23/2020	COW_ASB
Calcium (Ca), total in water	94.719 ± 20.9%	mg/L	8/23/2020	COW_ASB
Chromium (Cr), total in water	0.00175 ± 12.8%	mg/L	8/23/2020	COW_ASB
Copper (Cu), total in water	0.007435 ± 12.1%	mg/L	8/23/2020	COW_ASB
Iron (Fe), total in water	0.58561 ± 9.7%	mg/L	8/23/2020	COW_ASB
Lead (Pb), total in water	0.000903 ± 8.3%	mg/L	8/23/2020	COW_ASB
Magnesium (Mg), total in water	94.019 ± 10.5%	mg/L	8/23/2020	COW_ASB
Manganese (Mn), total in water	0.32186 ± 11.2%	mg/L	8/23/2020	COW_ASB
Nickel (Ni), total in water	0.031057 ± 12.2%	mg/L	8/23/2020	COW_ASB
Phosphorus (P), total in water	3.9222	mg/L	8/23/2020	COW_ASB
Potassium (K), total in water	293.91 ± 18.3%	mg/L	8/23/2020	COW_ASB
Selenium (Se), total in water	0.00101 ± 8.0%	mg/L	8/23/2020	COW_ASB
Sodium (Na), total in water	82.183 ± 9.2%	mg/L	8/23/2020	COW_ASB
Uranium (U), total in water	0.004683 ± 10.0%	mg/L	8/23/2020	COW_ASB
Zinc (Zn), total in water	0.01193 ± 10.7%	mg/L	8/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	237	mg/L	8/24/2020	COW_ASB
Total Hardness, calculated in water	624	mg/L	8/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	10.90 ± 4.4%	NTU	8/18/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	809.00	mg/L	8/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	33.50	mg/L	8/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	8/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	132.0	mg/L	8/31/2020	ALS
Dissolved Organic Carbon	239.0	mg/L	8/31/2020	ALS
Total Dissolved Carbon by Calculation	370.0	mg/L	8/31/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	326.000	mg/L	8/31/2020	ALS
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Cyanide

Cyanide, Total in water	0.0018	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0108	mg/L	8/31/2020	ALS
Antimony (Sb), dissolved in water	0.000680	mg/L	8/31/2020	ALS

Total Metals by ICP-MS

Arsenic (As), dissolved in water	0.02290	mg/L	8/31/2020	ALS
Barium (Ba), dissolved in water	0.0769	mg/L	8/31/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Boron (B), dissolved in water	0.7960	mg/L	8/31/2020	ALS
Cadmium (Cd), dissolved in water	0.000020	mg/L	8/31/2020	ALS
Calcium (Ca), dissolved in water	129.0000	mg/L	8/31/2020	ALS
Cesium (Cs), dissolved in water	0.000011	mg/L	8/31/2020	ALS
Chromium (Cr), dissolved in water	0.00101	mg/L	8/31/2020	ALS
Cobalt (Co), dissolved in water	0.00411	mg/L	8/31/2020	ALS
Copper (Cu), dissolved in water	0.00594	mg/L	8/31/2020	ALS
Hardness dissolved in water, calculated	890.4	mg/L	8/31/2020	ALS
Iron (Fe), dissolved in water	0.1240	mg/L	8/31/2020	ALS
Lead (Pb), dissolved in water	0.000283	mg/L	8/31/2020	ALS
Lithium (Li), dissolved in water	0.1970	mg/L	8/31/2020	ALS
Magnesium (Mg), dissolved in water	138.0000	mg/L	8/31/2020	ALS
Manganese (Mn), dissolved in water	0.4120	mg/L	8/31/2020	ALS
Molybdenum (Mo), dissolved in water	0.005050	mg/L	8/31/2020	ALS
Nickel (Ni), dissolved in water	0.03000	mg/L	8/31/2020	ALS
Phosphorus (P), dissolved in water	4.650	mg/L	8/31/2020	ALS
Potassium (K), dissolved in water	366.0000	mg/L	8/31/2020	ALS
Rubidium (Rb), dissolved in water	0.0310	mg/L	8/31/2020	ALS
Selenium (Se), dissolved in water	0.000983	mg/L	8/31/2020	ALS
Silicon (Si), dissolved in water	12.2000	mg/L	8/31/2020	ALS
Silver (Ag), dissolved in water	0.000015	mg/L	8/31/2020	ALS
Sodium (Na), dissolved in water	98.9000	mg/L	8/31/2020	ALS
Strontium (Sr), dissolved in water	0.6600	mg/L	8/31/2020	ALS
Sulfur (S), dissolved in water	66.4000	mg/L	8/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Tin (Sn), dissolved in water	0.00334	mg/L	8/31/2020	ALS
Titanium (Ti), dissolved in water	0.00804	mg/L	8/31/2020	ALS
Tungsten (W), dissolved in water	0.00023	mg/L	8/31/2020	ALS
Uranium (U), dissolved in water	0.004570	mg/L	8/31/2020	ALS
Vanadium (V), dissolved in water	0.01230	mg/L	8/31/2020	ALS
Zinc (Zn), dissolved in water	0.0056	mg/L	8/31/2020	ALS
Zirconium (Zr), dissolved in water	0.00599	mg/L	8/31/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		8/31/2020	ALS
Mercury (Hg) dissolved in water	0.0000060	mg/L	8/31/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	207.00	mg/L	8/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	0.00054	mg/L	8/31/2020	ALS
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Dissolved Organic Carbon by High Temperature Combustion

Dissolved Organic Carbon, as NPOC	152 ± 13%	mg/L	8/21/2020	COW_ASB
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Total and E. coli, 1:10 dilution by QT97

Escherichia Coliform by QT97	340	MPN/100mL	8/31/2020	ALS
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Total Coliforms by QT97	5250	MPN/100mL	8/31/2020	ALS
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Fecal coliforms, 1:10 dilution by QT97

Fecal Coliforms, 1:10 dilution by QT97	360	MPN/100mL	8/31/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	719.00	mg/L	10/15/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.00	mg/L	10/15/2020	ALS
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Sample No. : 320084
Sample Description : SWQ25-9A
Sample Date : August 18, 2020
Sample Received : August 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	150 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, carbonate, calculated	108 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, total to pH 4.5	258 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	54.1 ± 2.8%	mg/L		8/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.024 ± 16.9%	mg/L		8/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		8/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.292 ± 7.5%	mg/L		8/26/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	10.7	mg/L		8/31/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	10.7 ± 15%	mg/L		8/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	65.2 ± 6%	mg/L		8/22/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	419 ± 10%	mg/L		8/23/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	29 ± 15%	mg/L		8/23/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	291 ± 6.1%	mg/L		9/3/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	674 ± 7.2%	uS		8/19/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	9.68 ± 0.07 units	units		8/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	511 ± 6.5%	mg/L		8/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	213.0	mg/L		8/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	724 ± 6.2%	mg/L		8/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	24.8 ± 13%	mg/L		8/20/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	65.5 ± 13%	mg/L		8/20/2020	COW_ASB

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	0.003047 ± 9.2%	mg/L	8/23/2020	COW_ASB
Arsenic (As), total in water	0.010407 ± 8.1%	mg/L	8/23/2020	COW_ASB
Barium (Ba), total in water	0.064192 ± 11.8%	mg/L	8/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	8/23/2020	COW_ASB
Boron (B), total in water	0.04863 ± 24.2%	mg/L	8/23/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/23/2020	COW_ASB
Calcium (Ca), total in water	43.438 ± 20.9%	mg/L	8/23/2020	COW_ASB
Chromium (Cr), total in water	0.00093 ± 12.8%	mg/L	8/23/2020	COW_ASB
Copper (Cu), total in water	0.003904 ± 12.1%	mg/L	8/23/2020	COW_ASB
Iron (Fe), total in water	0.68218 ± 9.7%	mg/L	8/23/2020	COW_ASB
Lead (Pb), total in water	0.000345 ± 8.3%	mg/L	8/23/2020	COW_ASB
Magnesium (Mg), total in water	37.597 ± 10.5%	mg/L	8/23/2020	COW_ASB
Manganese (Mn), total in water	0.04715 ± 11.2%	mg/L	8/23/2020	COW_ASB
Nickel (Ni), total in water	0.008618 ± 12.2%	mg/L	8/23/2020	COW_ASB
Phosphorus (P), total in water	1.5177	mg/L	8/23/2020	COW_ASB
Potassium (K), total in water	17.029 ± 18.3%	mg/L	8/23/2020	COW_ASB
Selenium (Se), total in water	0.00028 ± 8.0%	mg/L	8/23/2020	COW_ASB
Sodium (Na), total in water	26.538 ± 9.2%	mg/L	8/23/2020	COW_ASB
Uranium (U), total in water	0.002140 ± 10.0%	mg/L	8/23/2020	COW_ASB
Zinc (Zn), total in water	0.01239 ± 10.7%	mg/L	8/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	109	mg/L	8/24/2020	COW_ASB
Total Hardness, calculated in water	263	mg/L	8/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	167.00 ± 4.4%	NTU	8/18/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	294.00	mg/L	8/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	17.40	mg/L	8/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	8/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	47.9	mg/L	8/31/2020	ALS
Dissolved Organic Carbon	21.6	mg/L	8/31/2020	ALS
Total Dissolved Carbon by Calculation	69.5	mg/L	8/31/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	67.000	mg/L	8/31/2020	ALS
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Cyanide

Cyanide, Total in water	0.0010	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0074	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Antimony (Sb), dissolved in water	0.000430	mg/L	8/31/2020	ALS
Arsenic (As), dissolved in water	0.01310	mg/L	8/31/2020	ALS
Barium (Ba), dissolved in water	0.0531	mg/L	8/31/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Boron (B), dissolved in water	0.0770	mg/L	8/31/2020	ALS
Cadmium (Cd), dissolved in water	0.000006	mg/L	8/31/2020	ALS
Calcium (Ca), dissolved in water	50.3000	mg/L	8/31/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Cobalt (Co), dissolved in water	0.00090	mg/L	8/31/2020	ALS
Copper (Cu), dissolved in water	0.00138	mg/L	8/31/2020	ALS
Hardness dissolved in water, calculated	311.7	mg/L	8/31/2020	ALS
Iron (Fe), dissolved in water	0.0160	mg/L	8/31/2020	ALS
Lead (Pb), dissolved in water	0.000050	mg/L	8/31/2020	ALS
Lithium (Li), dissolved in water	0.0585	mg/L	8/31/2020	ALS
Magnesium (Mg), dissolved in water	45.2000	mg/L	8/31/2020	ALS
Manganese (Mn), dissolved in water	0.0121	mg/L	8/31/2020	ALS
Molybdenum (Mo), dissolved in water	0.002700	mg/L	8/31/2020	ALS
Nickel (Ni), dissolved in water	0.00444	mg/L	8/31/2020	ALS
Phosphorus (P), dissolved in water	0.442	mg/L	8/31/2020	ALS
Potassium (K), dissolved in water	17.4000	mg/L	8/31/2020	ALS
Rubidium (Rb), dissolved in water	0.0016	mg/L	8/31/2020	ALS
Selenium (Se), dissolved in water	0.000229	mg/L	8/31/2020	ALS
Silicon (Si), dissolved in water	4.2200	mg/L	8/31/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Sodium (Na), dissolved in water	30.3000	mg/L	8/31/2020	ALS
Strontium (Sr), dissolved in water	0.2590	mg/L	8/31/2020	ALS
Sulfur (S), dissolved in water	10.9000	mg/L	8/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Tin (Sn), dissolved in water	0.00280	mg/L	8/31/2020	ALS
Titanium (Ti), dissolved in water	0.00265	mg/L	8/31/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Uranium (U), dissolved in water	0.002320	mg/L	8/31/2020	ALS
Vanadium (V), dissolved in water	0.00869	mg/L	8/31/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	8/31/2020	ALS
Zirconium (Zr), dissolved in water	0.00032	mg/L	8/31/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		8/31/2020	ALS
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Mercury in Water

Mercury (Hg) dissolved in water	<0.000050	mg/L	8/31/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	37.70	mg/L	8/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	8/31/2020	ALS
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Total and E. coli, 1:10 dilution by QT97

Escherichia Coliform by QT97	24200	MPN/100mL	8/31/2020	ALS
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Total Coliforms by QT97	>24200	MPN/100mL	8/31/2020	ALS
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Fecal coliforms, 1:10 dilution by QT97

Fecal Coliforms, 1:10 dilution by QT97	>24200	MPN/100mL	8/31/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	270.00	mg/L	10/15/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.12	mg/L	10/15/2020	ALS
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Sample No. : 320085
Sample Description : SWQ25-9B
Sample Date : August 18, 2020
Sample Received : August 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	207 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, carbonate, calculated	41.4 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, total to pH 4.5	248 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	20.7 ± 2.8%	mg/L		8/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.38 ± 16.9%	mg/L		8/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		8/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.581 ± 7.5%	mg/L		8/26/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	4.3	mg/L		8/31/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	4.3 ± 15%	mg/L		8/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	41.0 ± 6%	mg/L		8/22/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	26.4 ± 10%	mg/L		8/23/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	7 ± 15%	mg/L		8/23/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	116 ± 6.1%	mg/L		9/3/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	591 ± 7.2%	uS		8/19/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.93 ± 0.07 units	units		8/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	396 ± 6.5%	mg/L		8/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	118.0	mg/L		8/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	514 ± 6.2%	mg/L		8/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	21.4 ± 13%	mg/L		8/20/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	30.3 ± 13%	mg/L		8/20/2020	COW_ASB

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	8/23/2020	COW_ASB
Arsenic (As), total in water	0.012576 ± 8.1%	mg/L	8/23/2020	COW_ASB
Barium (Ba), total in water	0.071372 ± 11.8%	mg/L	8/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	8/23/2020	COW_ASB
Boron (B), total in water	0.03952 ± 24.2%	mg/L	8/23/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/23/2020	COW_ASB
Calcium (Ca), total in water	38.707 ± 20.9%	mg/L	8/23/2020	COW_ASB
Chromium (Cr), total in water	0.00057 ± 12.8%	mg/L	8/23/2020	COW_ASB
Copper (Cu), total in water	0.002542 ± 12.1%	mg/L	8/23/2020	COW_ASB
Iron (Fe), total in water	0.40003 ± 9.7%	mg/L	8/23/2020	COW_ASB
Lead (Pb), total in water	0.000257 ± 8.3%	mg/L	8/23/2020	COW_ASB
Magnesium (Mg), total in water	30.258 ± 10.5%	mg/L	8/23/2020	COW_ASB
Manganese (Mn), total in water	0.10588 ± 11.2%	mg/L	8/23/2020	COW_ASB
Nickel (Ni), total in water	0.005422 ± 12.2%	mg/L	8/23/2020	COW_ASB
Phosphorus (P), total in water	0.8752	mg/L	8/23/2020	COW_ASB
Potassium (K), total in water	14.214 ± 18.3%	mg/L	8/23/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	8/23/2020	COW_ASB
Sodium (Na), total in water	18.890 ± 9.2%	mg/L	8/23/2020	COW_ASB
Uranium (U), total in water	0.001506 ± 10.0%	mg/L	8/23/2020	COW_ASB
Zinc (Zn), total in water	0.00904 ± 10.7%	mg/L	8/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	96.7	mg/L	8/24/2020	COW_ASB
Total Hardness, calculated in water	221	mg/L	8/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	54.90 ± 4.4%	NTU	8/18/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	271.00	mg/L	8/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	18.00	mg/L	8/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	8/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	52.6	mg/L	8/31/2020	ALS
Dissolved Organic Carbon	19.0	mg/L	8/31/2020	ALS
Total Dissolved Carbon by Calculation	71.6	mg/L	8/31/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	41.600	mg/L	8/31/2020	ALS
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Cyanide

Cyanide, Total in water	0.0011	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0657	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Antimony (Sb), dissolved in water	0.000400	mg/L	8/31/2020	ALS
Arsenic (As), dissolved in water	0.01700	mg/L	8/31/2020	ALS
Barium (Ba), dissolved in water	0.0677	mg/L	8/31/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Boron (B), dissolved in water	0.0770	mg/L	8/31/2020	ALS
Cadmium (Cd), dissolved in water	0.000015	mg/L	8/31/2020	ALS
Calcium (Ca), dissolved in water	48.2000	mg/L	8/31/2020	ALS
Cesium (Cs), dissolved in water	0.000010	mg/L	8/31/2020	ALS
Chromium (Cr), dissolved in water	0.00022	mg/L	8/31/2020	ALS
Cobalt (Co), dissolved in water	0.00098	mg/L	8/31/2020	ALS
Copper (Cu), dissolved in water	0.00144	mg/L	8/31/2020	ALS
Hardness dissolved in water, calculated	274.4	mg/L	8/31/2020	ALS
Iron (Fe), dissolved in water	0.0990	mg/L	8/31/2020	ALS
Lead (Pb), dissolved in water	0.000118	mg/L	8/31/2020	ALS
Lithium (Li), dissolved in water	0.0473	mg/L	8/31/2020	ALS
Magnesium (Mg), dissolved in water	37.4000	mg/L	8/31/2020	ALS
Manganese (Mn), dissolved in water	0.1030	mg/L	8/31/2020	ALS
Molybdenum (Mo), dissolved in water	0.003080	mg/L	8/31/2020	ALS
Nickel (Ni), dissolved in water	0.00456	mg/L	8/31/2020	ALS
Phosphorus (P), dissolved in water	0.715	mg/L	8/31/2020	ALS
Potassium (K), dissolved in water	17.5000	mg/L	8/31/2020	ALS
Rubidium (Rb), dissolved in water	0.0018	mg/L	8/31/2020	ALS
Selenium (Se), dissolved in water	0.000207	mg/L	8/31/2020	ALS
Silicon (Si), dissolved in water	6.3800	mg/L	8/31/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Sodium (Na), dissolved in water	23.7000	mg/L	8/31/2020	ALS
Strontium (Sr), dissolved in water	0.2370	mg/L	8/31/2020	ALS
Sulfur (S), dissolved in water	7.9300	mg/L	8/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Tin (Sn), dissolved in water	0.00106	mg/L	8/31/2020	ALS
Titanium (Ti), dissolved in water	0.00642	mg/L	8/31/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Uranium (U), dissolved in water	0.001800	mg/L	8/31/2020	ALS
Vanadium (V), dissolved in water	0.00655	mg/L	8/31/2020	ALS
Zinc (Zn), dissolved in water	0.0025	mg/L	8/31/2020	ALS
Zirconium (Zr), dissolved in water	0.00042	mg/L	8/31/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		8/31/2020	ALS
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Mercury in Water

Mercury (Hg) dissolved in water	<0.0000050	mg/L	8/31/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	24.50	mg/L	8/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	138	MPN/100mL	8/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	248	MPN/100mL	8/31/2020	ALS
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Total Coliforms by QT97	>2420	MPN/100mL	8/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	8/31/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	252.00	mg/L	10/15/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.56	mg/L	10/15/2020	ALS
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Sample No. : 320086
Sample Description : SWQ25-11A
Sample Date : August 18, 2020
Sample Received : August 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	1150 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, carbonate, calculated	242 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, total to pH 4.5	1400 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	121 ± 2.8%	mg/L		8/19/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	>2.000 ± 16.9%	mg/L		8/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		8/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.392 ± 7.5%	mg/L		8/26/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	20.2	mg/L		8/31/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	20.2 ± 15%	mg/L		8/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1610 ± 6%	mg/L		8/22/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	488 ± 10%	mg/L		8/23/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	17 ± 15%	mg/L		8/23/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	633 ± 6.1%	mg/L		9/3/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6200 ± 7.2%	uS		8/19/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.60 ± 0.07 units	units		8/18/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	6180 ± 6.2%	mg/L		8/19/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	202.4 ± 13%	mg/L		8/20/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.003610 ± 9.2%	mg/L		8/23/2020	COW_ASB
Arsenic (As), total in water	0.019736 ± 8.1%	mg/L		8/23/2020	COW_ASB
Barium (Ba), total in water	0.40477 ± 11.8%	mg/L		8/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		8/23/2020	COW_ASB
Boron (B), total in water	1.1938 ± 24.2%	mg/L		8/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/23/2020	COW_ASB
Calcium (Ca), total in water	70.928 ± 20.9%	mg/L	8/23/2020	COW_ASB
Chromium (Cr), total in water	0.01101 ± 12.8%	mg/L	8/23/2020	COW_ASB
Copper (Cu), total in water	0.004834 ± 12.1%	mg/L	8/23/2020	COW_ASB
Iron (Fe), total in water	5.7234 ± 9.7%	mg/L	8/23/2020	COW_ASB
Lead (Pb), total in water	0.003582 ± 8.3%	mg/L	8/23/2020	COW_ASB
Magnesium (Mg), total in water	336.21 ± 10.5%	mg/L	8/23/2020	COW_ASB
Manganese (Mn), total in water	0.09110 ± 11.2%	mg/L	8/23/2020	COW_ASB
Nickel (Ni), total in water	0.11841 ± 12.2%	mg/L	8/23/2020	COW_ASB
Phosphorus (P), total in water	1.6047	mg/L	8/23/2020	COW_ASB
Potassium (K), total in water	212.80 ± 18.3%	mg/L	8/23/2020	COW_ASB
Selenium (Se), total in water	0.00260 ± 8.0%	mg/L	8/23/2020	COW_ASB
Sodium (Na), total in water	637.79 ± 9.2%	mg/L	8/23/2020	COW_ASB
Uranium (U), total in water	0.013172 ± 10.0%	mg/L	8/23/2020	COW_ASB
Zinc (Zn), total in water	0.03143 ± 10.7%	mg/L	8/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	177	mg/L	8/24/2020	COW_ASB
Total Hardness, calculated in water	1560	mg/L	8/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	218.00 ± 4.4%	NTU	8/18/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	1540.00	mg/L	8/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	92.00	mg/L	8/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	8/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	257.0	mg/L	8/31/2020	ALS
Dissolved Organic Carbon	201.0	mg/L	8/31/2020	ALS
Total Dissolved Carbon by Calculation	457.0	mg/L	8/31/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1240.000	mg/L	8/31/2020	ALS
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Cyanide

Cyanide, Total in water	0.0018	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0060	mg/L	8/31/2020	ALS
Antimony (Sb), dissolved in water	0.002590	mg/L	8/31/2020	ALS
Arsenic (As), dissolved in water	0.06160	mg/L	8/31/2020	ALS
Barium (Ba), dissolved in water	0.3340	mg/L	8/31/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	8/31/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	3.0200	mg/L	8/31/2020	ALS
Cadmium (Cd), dissolved in water	0.000020	mg/L	8/31/2020	ALS
Calcium (Ca), dissolved in water	59.1000	mg/L	8/31/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Chromium (Cr), dissolved in water	0.00191	mg/L	8/31/2020	ALS
Cobalt (Co), dissolved in water	0.00365	mg/L	8/31/2020	ALS
Copper (Cu), dissolved in water	0.00102	mg/L	8/31/2020	ALS
Hardness dissolved in water, calculated	1938.9	mg/L	8/31/2020	ALS
Iron (Fe), dissolved in water	0.0440	mg/L	8/31/2020	ALS
Lead (Pb), dissolved in water	0.000148	mg/L	8/31/2020	ALS
Lithium (Li), dissolved in water	0.4480	mg/L	8/31/2020	ALS
Magnesium (Mg), dissolved in water	435.0000	mg/L	8/31/2020	ALS
Manganese (Mn), dissolved in water	0.0793	mg/L	8/31/2020	ALS
Molybdenum (Mo), dissolved in water	0.019200	mg/L	8/31/2020	ALS
Nickel (Ni), dissolved in water	0.10700	mg/L	8/31/2020	ALS
Phosphorus (P), dissolved in water	1.430	mg/L	8/31/2020	ALS
Potassium (K), dissolved in water	262.0000	mg/L	8/31/2020	ALS
Rubidium (Rb), dissolved in water	0.0117	mg/L	8/31/2020	ALS
Selenium (Se), dissolved in water	0.001130	mg/L	8/31/2020	ALS
Silicon (Si), dissolved in water	4.6500	mg/L	8/31/2020	ALS
Silver (Ag), dissolved in water	0.000027	mg/L	8/31/2020	ALS
Sodium (Na), dissolved in water	777.0000	mg/L	8/31/2020	ALS
Strontium (Sr), dissolved in water	0.9840	mg/L	8/31/2020	ALS
Sulfur (S), dissolved in water	134.0000	mg/L	8/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Tin (Sn), dissolved in water	0.00268	mg/L	8/31/2020	ALS
Titanium (Ti), dissolved in water	0.00343	mg/L	8/31/2020	ALS
Tungsten (W), dissolved in water	0.00175	mg/L	8/31/2020	ALS
Uranium (U), dissolved in water	0.011200	mg/L	8/31/2020	ALS
Vanadium (V), dissolved in water	0.03730	mg/L	8/31/2020	ALS
Zinc (Zn), dissolved in water	0.0011	mg/L	8/31/2020	ALS
Zirconium (Zr), dissolved in water	0.01030	mg/L	8/31/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		8/31/2020	ALS
Mercury (Hg) dissolved in water	<0.0000050	mg/L	8/31/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	428.00	mg/L	8/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	>2420	MPN/100mL	8/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	>2420	MPN/100mL	8/31/2020	ALS
Total Coliforms by QT97	>2420	MPN/100mL	8/31/2020	ALS

Dissolved Solids by Gravimetric Analysis

Total Dissolved Solid, calculated	4470	mg/L	8/20/2020	COW_ASB
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Total Suspended Solids by Gravimetric Analysis

Total Suspended Solids	1710 ± 8.4%	mg/L	8/19/2020	COW_ASB
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	8/31/2020	ALS
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Dissolved Organic Carbon by High Temperature Combustion

Dissolved Organic Carbon, as NPOC	254 ± 13%	mg/L	8/21/2020	COW_ASB
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	1420.00	mg/L	10/15/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	4.48	mg/L	10/15/2020	ALS
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Sample No. : 320087
Sample Description : SWQ25-11B
Sample Date : August 18, 2020
Sample Received : August 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	1160 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, carbonate, calculated	268 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, total to pH 4.5	1430 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	134 ± 2.8%	mg/L		8/19/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	>2.000 ± 16.9%	mg/L		8/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.109 ± 7.8%	mg/L		8/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	1.06 ± 7.5%	mg/L		8/26/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	15.7	mg/L		8/31/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	15.8 ± 15%	mg/L		8/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1160 ± 6%	mg/L		8/22/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	426 ± 10%	mg/L		8/23/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		8/23/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	537 ± 6.1%	mg/L		9/3/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	5710 ± 7.2%	uS		8/19/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.65 ± 0.07 units	units		8/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3990 ± 6.5%	mg/L		8/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	417.0	mg/L		8/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	4410 ± 6.2%	mg/L		8/19/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	192.4 ± 13%	mg/L		8/20/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.002499 ± 9.2%	mg/L		8/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.027045 ± 8.1%	mg/L	8/23/2020	COW_ASB
Barium (Ba), total in water	0.28436 ± 11.8%	mg/L	8/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	8/23/2020	COW_ASB
Boron (B), total in water	1.6819 ± 24.2%	mg/L	8/23/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/23/2020	COW_ASB
Calcium (Ca), total in water	90.624 ± 20.9%	mg/L	8/23/2020	COW_ASB
Chromium (Cr), total in water	0.00629 ± 12.8%	mg/L	8/23/2020	COW_ASB
Copper (Cu), total in water	0.004747 ± 12.1%	mg/L	8/23/2020	COW_ASB
Iron (Fe), total in water	2.8556 ± 9.7%	mg/L	8/23/2020	COW_ASB
Lead (Pb), total in water	0.001785 ± 8.3%	mg/L	8/23/2020	COW_ASB
Magnesium (Mg), total in water	348.81 ± 10.5%	mg/L	8/23/2020	COW_ASB
Manganese (Mn), total in water	0.08801 ± 11.2%	mg/L	8/23/2020	COW_ASB
Nickel (Ni), total in water	0.10066 ± 12.2%	mg/L	8/23/2020	COW_ASB
Phosphorus (P), total in water	2.9192	mg/L	8/23/2020	COW_ASB
Potassium (K), total in water	199.13 ± 18.3%	mg/L	8/23/2020	COW_ASB
Selenium (Se), total in water	0.00353 ± 8.0%	mg/L	8/23/2020	COW_ASB
Sodium (Na), total in water	585.96 ± 9.2%	mg/L	8/23/2020	COW_ASB
Uranium (U), total in water	0.007575 ± 10.0%	mg/L	8/23/2020	COW_ASB
Zinc (Zn), total in water	0.02367 ± 10.7%	mg/L	8/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	226	mg/L	8/24/2020	COW_ASB
Total Hardness, calculated in water	1660	mg/L	8/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	89.20 ± 4.4%	NTU	8/18/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	1490.00	mg/L	8/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	154.00	mg/L	8/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	8/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	158.0	mg/L	8/31/2020	ALS
Dissolved Organic Carbon	181.0	mg/L	8/31/2020	ALS
Total Dissolved Carbon by Calculation	339.0	mg/L	8/31/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1080.000	mg/L	8/31/2020	ALS
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Cyanide

Cyanide, Total in water	0.0024	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0100	mg/L	8/31/2020	ALS
Antimony (Sb), dissolved in water	0.001660	mg/L	8/31/2020	ALS

Total Metals by ICP-MS

Arsenic (As), dissolved in water	0.05920	mg/L	8/31/2020	ALS
Barium (Ba), dissolved in water	0.2460	mg/L	8/31/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Boron (B), dissolved in water	2.9200	mg/L	8/31/2020	ALS
Cadmium (Cd), dissolved in water	0.000005	mg/L	8/31/2020	ALS
Calcium (Ca), dissolved in water	86.0000	mg/L	8/31/2020	ALS
Cesium (Cs), dissolved in water	0.000013	mg/L	8/31/2020	ALS
Chromium (Cr), dissolved in water	0.00187	mg/L	8/31/2020	ALS
Cobalt (Co), dissolved in water	0.00365	mg/L	8/31/2020	ALS
Copper (Cu), dissolved in water	0.00241	mg/L	8/31/2020	ALS
Hardness dissolved in water, calculated	1841.4	mg/L	8/31/2020	ALS
Iron (Fe), dissolved in water	0.0460	mg/L	8/31/2020	ALS
Lead (Pb), dissolved in water	0.000163	mg/L	8/31/2020	ALS
Lithium (Li), dissolved in water	0.4210	mg/L	8/31/2020	ALS
Magnesium (Mg), dissolved in water	395.0000	mg/L	8/31/2020	ALS
Manganese (Mn), dissolved in water	0.0731	mg/L	8/31/2020	ALS
Molybdenum (Mo), dissolved in water	0.010400	mg/L	8/31/2020	ALS
Nickel (Ni), dissolved in water	0.09140	mg/L	8/31/2020	ALS
Phosphorus (P), dissolved in water	3.220	mg/L	8/31/2020	ALS
Potassium (K), dissolved in water	226.0000	mg/L	8/31/2020	ALS
Rubidium (Rb), dissolved in water	0.0113	mg/L	8/31/2020	ALS
Selenium (Se), dissolved in water	0.001030	mg/L	8/31/2020	ALS
Silicon (Si), dissolved in water	7.2800	mg/L	8/31/2020	ALS
Silver (Ag), dissolved in water	0.000018	mg/L	8/31/2020	ALS
Sodium (Na), dissolved in water	678.0000	mg/L	8/31/2020	ALS
Strontium (Sr), dissolved in water	1.0400	mg/L	8/31/2020	ALS
Sulfur (S), dissolved in water	117.0000	mg/L	8/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Tin (Sn), dissolved in water	0.00065	mg/L	8/31/2020	ALS
Titanium (Ti), dissolved in water	0.00246	mg/L	8/31/2020	ALS
Tungsten (W), dissolved in water	0.00159	mg/L	8/31/2020	ALS
Uranium (U), dissolved in water	0.006780	mg/L	8/31/2020	ALS
Vanadium (V), dissolved in water	0.02360	mg/L	8/31/2020	ALS
Zinc (Zn), dissolved in water	0.0019	mg/L	8/31/2020	ALS
Zirconium (Zr), dissolved in water	0.00554	mg/L	8/31/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		8/31/2020	ALS
Mercury (Hg) dissolved in water	<0.0000050	mg/L	8/31/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	355.00	mg/L	8/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	387	MPN/100mL	8/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	276	MPN/100mL	8/31/2020	ALS
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Total Coliforms by QT97	>2420	MPN/100mL	8/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	8/31/2020	ALS
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Dissolved Organic Carbon by High Temperature Combustion

Dissolved Organic Carbon, as NPOC	220 ± 13%	mg/L	8/21/2020	COW_ASB
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	1480.00	mg/L	10/15/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	3.11	mg/L	10/15/2020	ALS
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Sample No. : 320088
Sample Description : SWQ25-11C
Sample Date : August 18, 2020
Sample Received : August 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	950 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, carbonate, calculated	258 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, total to pH 4.5	1210 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	129 ± 2.8%	mg/L		8/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.21 ± 16.9%	mg/L		8/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.029 ± 7.8%	mg/L		8/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.900 ± 7.5%	mg/L		8/26/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	13.7	mg/L		8/31/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	13.7 ± 15%	mg/L		8/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	930 ± 6%	mg/L		8/22/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	372 ± 10%	mg/L		8/23/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	8 ± 15%	mg/L		8/23/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	494 ± 6.1%	mg/L		9/3/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4980 ± 7.2%	uS		8/19/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.79 ± 0.07 units	units		8/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3440 ± 6.5%	mg/L		8/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	436.0	mg/L		8/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3880 ± 6.2%	mg/L		8/19/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	169.0 ± 13%	mg/L		8/20/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001077 ± 9.2%	mg/L		8/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Arsenic (As), total in water	0.017878 ± 8.1%	mg/L	8/23/2020	COW_ASB
Barium (Ba), total in water	0.18865 ± 11.8%	mg/L	8/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	8/23/2020	COW_ASB
Boron (B), total in water	1.3753 ± 24.2%	mg/L	8/23/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/23/2020	COW_ASB
Calcium (Ca), total in water	78.322 ± 20.9%	mg/L	8/23/2020	COW_ASB
Chromium (Cr), total in water	0.00650 ± 12.8%	mg/L	8/23/2020	COW_ASB
Copper (Cu), total in water	0.005872 ± 12.1%	mg/L	8/23/2020	COW_ASB
Iron (Fe), total in water	3.1536 ± 9.7%	mg/L	8/23/2020	COW_ASB
Lead (Pb), total in water	0.001990 ± 8.3%	mg/L	8/23/2020	COW_ASB
Magnesium (Mg), total in water	279.34 ± 10.5%	mg/L	8/23/2020	COW_ASB
Manganese (Mn), total in water	0.06815 ± 11.2%	mg/L	8/23/2020	COW_ASB
Nickel (Ni), total in water	0.088080 ± 12.2%	mg/L	8/23/2020	COW_ASB
Phosphorus (P), total in water	1.5497	mg/L	8/23/2020	COW_ASB
Potassium (K), total in water	182.63 ± 18.3%	mg/L	8/23/2020	COW_ASB
Selenium (Se), total in water	0.00308 ± 8.0%	mg/L	8/23/2020	COW_ASB
Sodium (Na), total in water	509.42 ± 9.2%	mg/L	8/23/2020	COW_ASB
Uranium (U), total in water	0.009525 ± 10.0%	mg/L	8/23/2020	COW_ASB
Zinc (Zn), total in water	0.02455 ± 10.7%	mg/L	8/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	196	mg/L	8/24/2020	COW_ASB
Total Hardness, calculated in water	1350	mg/L	8/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	95.60 ± 4.4%	NTU	8/18/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	1190.00	mg/L	8/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	155.00	mg/L	8/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	8/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	287.0	mg/L	8/31/2020	ALS
Dissolved Organic Carbon	283.0	mg/L	8/31/2020	ALS
Total Dissolved Carbon by Calculation	570.0	mg/L	8/31/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	917.000	mg/L	8/31/2020	ALS
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Cyanide

Cyanide, Total in water	0.0026	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0057	mg/L	8/31/2020	ALS
Antimony (Sb), dissolved in water	0.001720	mg/L	8/31/2020	ALS

Total Metals by ICP-MS

Arsenic (As), dissolved in water	0.03950	mg/L	8/31/2020	ALS
Barium (Ba), dissolved in water	0.1450	mg/L	8/31/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Boron (B), dissolved in water	2.4800	mg/L	8/31/2020	ALS
Cadmium (Cd), dissolved in water	0.000011	mg/L	8/31/2020	ALS
Calcium (Ca), dissolved in water	74.7000	mg/L	8/31/2020	ALS
Cesium (Cs), dissolved in water	0.000011	mg/L	8/31/2020	ALS
Chromium (Cr), dissolved in water	0.00144	mg/L	8/31/2020	ALS
Cobalt (Co), dissolved in water	0.00404	mg/L	8/31/2020	ALS
Copper (Cu), dissolved in water	0.00419	mg/L	8/31/2020	ALS
Hardness dissolved in water, calculated	1529.0	mg/L	8/31/2020	ALS
Iron (Fe), dissolved in water	0.0310	mg/L	8/31/2020	ALS
Lead (Pb), dissolved in water	0.000236	mg/L	8/31/2020	ALS
Lithium (Li), dissolved in water	0.3650	mg/L	8/31/2020	ALS
Magnesium (Mg), dissolved in water	326.0000	mg/L	8/31/2020	ALS
Manganese (Mn), dissolved in water	0.0436	mg/L	8/31/2020	ALS
Molybdenum (Mo), dissolved in water	0.010800	mg/L	8/31/2020	ALS
Nickel (Ni), dissolved in water	0.07790	mg/L	8/31/2020	ALS
Phosphorus (P), dissolved in water	1.500	mg/L	8/31/2020	ALS
Potassium (K), dissolved in water	200.0000	mg/L	8/31/2020	ALS
Rubidium (Rb), dissolved in water	0.0095	mg/L	8/31/2020	ALS
Selenium (Se), dissolved in water	0.001150	mg/L	8/31/2020	ALS
Silicon (Si), dissolved in water	3.4200	mg/L	8/31/2020	ALS
Silver (Ag), dissolved in water	0.000019	mg/L	8/31/2020	ALS
Sodium (Na), dissolved in water	588.0000	mg/L	8/31/2020	ALS
Strontium (Sr), dissolved in water	0.8970	mg/L	8/31/2020	ALS
Sulfur (S), dissolved in water	102.0000	mg/L	8/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Tin (Sn), dissolved in water	0.00171	mg/L	8/31/2020	ALS
Titanium (Ti), dissolved in water	0.00315	mg/L	8/31/2020	ALS
Tungsten (W), dissolved in water	0.00137	mg/L	8/31/2020	ALS
Uranium (U), dissolved in water	0.008580	mg/L	8/31/2020	ALS
Vanadium (V), dissolved in water	0.02830	mg/L	8/31/2020	ALS
Zinc (Zn), dissolved in water	0.0018	mg/L	8/31/2020	ALS
Zirconium (Zr), dissolved in water	0.00671	mg/L	8/31/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		8/31/2020	ALS
Mercury (Hg) dissolved in water	<0.0000050	mg/L	8/31/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	305.00	mg/L	8/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	2420	MPN/100mL	8/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	1990	MPN/100mL	8/31/2020	ALS
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Total Coliforms by QT97	>2420	MPN/100mL	8/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	8/31/2020	ALS
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Dissolved Organic Carbon by High Temperature Combustion

Dissolved Organic Carbon, as NPOC	223 ± 13%	mg/L	8/21/2020	COW_ASB
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	1240.00	mg/L	10/15/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.65	mg/L	10/15/2020	ALS
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Sample No. : 320095
Sample Description : SWQ25-100
Sample Date : August 18, 2020
Sample Received : August 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	146 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, carbonate, calculated	112 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, total to pH 4.5	258 ± 2.8%	mg/L		8/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	56.2 ± 2.8%	mg/L		8/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.014 ± 16.9%	mg/L		8/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		8/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.306 ± 7.5%	mg/L		8/26/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	4.1	mg/L		8/31/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	4.1 ± 15%	mg/L		8/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	52.8 ± 6%	mg/L		8/22/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	40.8 ± 10%	mg/L		8/23/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	42 ± 15%	mg/L		8/23/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	136 ± 6.1%	mg/L		9/3/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	668 ± 7.2%	uS		8/19/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	9.68 ± 0.07 units	units		8/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	490 ± 6.5%	mg/L		8/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	160.0	mg/L		8/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	650 ± 6.2%	mg/L		8/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	30.1 ± 13%	mg/L		8/20/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	32.8 ± 13%	mg/L		8/20/2020	COW_ASB

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	8/23/2020	COW_ASB
Arsenic (As), total in water	0.010272 ± 8.1%	mg/L	8/23/2020	COW_ASB
Barium (Ba), total in water	0.064451 ± 11.8%	mg/L	8/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	8/23/2020	COW_ASB
Boron (B), total in water	0.06242 ± 24.2%	mg/L	8/23/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/23/2020	COW_ASB
Calcium (Ca), total in water	45.632 ± 20.9%	mg/L	8/23/2020	COW_ASB
Chromium (Cr), total in water	0.00100 ± 12.8%	mg/L	8/23/2020	COW_ASB
Copper (Cu), total in water	0.002876 ± 12.1%	mg/L	8/23/2020	COW_ASB
Iron (Fe), total in water	0.63979 ± 9.7%	mg/L	8/23/2020	COW_ASB
Lead (Pb), total in water	0.000287 ± 8.3%	mg/L	8/23/2020	COW_ASB
Magnesium (Mg), total in water	38.498 ± 10.5%	mg/L	8/23/2020	COW_ASB
Manganese (Mn), total in water	0.04348 ± 11.2%	mg/L	8/23/2020	COW_ASB
Nickel (Ni), total in water	0.006729 ± 12.2%	mg/L	8/23/2020	COW_ASB
Phosphorus (P), total in water	0.7918	mg/L	8/23/2020	COW_ASB
Potassium (K), total in water	17.861 ± 18.3%	mg/L	8/23/2020	COW_ASB
Selenium (Se), total in water	0.00047 ± 8.0%	mg/L	8/23/2020	COW_ASB
Sodium (Na), total in water	29.301 ± 9.2%	mg/L	8/23/2020	COW_ASB
Uranium (U), total in water	0.002055 ± 10.0%	mg/L	8/23/2020	COW_ASB
Zinc (Zn), total in water	0.01267 ± 10.7%	mg/L	8/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	114	mg/L	8/24/2020	COW_ASB
Total Hardness, calculated in water	273	mg/L	8/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	33.80 ± 4.4%	NTU	8/18/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	229.00	mg/L	8/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	42.80	mg/L	8/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	8/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	44.9	mg/L	8/31/2020	ALS
Dissolved Organic Carbon	24.7	mg/L	8/31/2020	ALS
Total Dissolved Carbon by Calculation	69.5	mg/L	8/31/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	66.700	mg/L	8/31/2020	ALS
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Cyanide

Cyanide, Total in water	0.0012	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0056	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Antimony (Sb), dissolved in water	0.000430	mg/L	8/31/2020	ALS
Arsenic (As), dissolved in water	0.01360	mg/L	8/31/2020	ALS
Barium (Ba), dissolved in water	0.0546	mg/L	8/31/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Boron (B), dissolved in water	0.0790	mg/L	8/31/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	8/31/2020	ALS
Calcium (Ca), dissolved in water	50.6000	mg/L	8/31/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Chromium (Cr), dissolved in water	0.00016	mg/L	8/31/2020	ALS
Cobalt (Co), dissolved in water	0.00091	mg/L	8/31/2020	ALS
Copper (Cu), dissolved in water	0.00192	mg/L	8/31/2020	ALS
Hardness dissolved in water, calculated	318.7	mg/L	8/31/2020	ALS
Iron (Fe), dissolved in water	0.0240	mg/L	8/31/2020	ALS
Lead (Pb), dissolved in water	0.000063	mg/L	8/31/2020	ALS
Lithium (Li), dissolved in water	0.0600	mg/L	8/31/2020	ALS
Magnesium (Mg), dissolved in water	46.7000	mg/L	8/31/2020	ALS
Manganese (Mn), dissolved in water	0.0111	mg/L	8/31/2020	ALS
Molybdenum (Mo), dissolved in water	0.002820	mg/L	8/31/2020	ALS
Nickel (Ni), dissolved in water	0.00455	mg/L	8/31/2020	ALS
Phosphorus (P), dissolved in water	0.447	mg/L	8/31/2020	ALS
Potassium (K), dissolved in water	18.1000	mg/L	8/31/2020	ALS
Rubidium (Rb), dissolved in water	0.0017	mg/L	8/31/2020	ALS
Selenium (Se), dissolved in water	0.000287	mg/L	8/31/2020	ALS
Silicon (Si), dissolved in water	4.3300	mg/L	8/31/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Sodium (Na), dissolved in water	31.7000	mg/L	8/31/2020	ALS
Strontium (Sr), dissolved in water	0.2550	mg/L	8/31/2020	ALS
Sulfur (S), dissolved in water	11.2000	mg/L	8/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Tin (Sn), dissolved in water	0.00036	mg/L	8/31/2020	ALS
Titanium (Ti), dissolved in water	0.00240	mg/L	8/31/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Uranium (U), dissolved in water	0.002260	mg/L	8/31/2020	ALS
Vanadium (V), dissolved in water	0.00909	mg/L	8/31/2020	ALS
Zinc (Zn), dissolved in water	0.0024	mg/L	8/31/2020	ALS
Zirconium (Zr), dissolved in water	0.00025	mg/L	8/31/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	LAB		8/31/2020	ALS
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Mercury in Water

Mercury (Hg) dissolved in water	<0.0000050	mg/L	8/31/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	37.60	mg/L	8/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	>2420	MPN/100mL	8/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	1010	MPN/100mL	8/31/2020	ALS
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Total Coliforms by QT97	1010	MPN/100mL	8/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	8/31/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	259.00	mg/L	10/15/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.08	mg/L	10/15/2020	ALS
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Sample No. : 320096
Sample Description : SWQ25-101
Sample Date : August 18, 2020
Sample Received : August 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	1170 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, carbonate, calculated	229 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, total to pH 4.5	1400 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	115 ± 2.8%	mg/L		8/19/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	>2.000 ± 16.9%	mg/L		8/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		8/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.397 ± 7.5%	mg/L		8/26/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	19.6	mg/L		8/31/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	19.6 ± 15%	mg/L		8/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1350 ± 6%	mg/L		8/22/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	530 ± 10%	mg/L		8/23/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	19 ± 15%	mg/L		8/23/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	637 ± 6.1%	mg/L		9/3/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6200 ± 7.2%	uS		8/19/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.57 ± 0.07 units	units		8/18/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	6030 ± 6.2%	mg/L		8/19/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	206.0 ± 13%	mg/L		8/20/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.003450 ± 9.2%	mg/L		8/23/2020	COW_ASB
Arsenic (As), total in water	0.018532 ± 8.1%	mg/L		8/23/2020	COW_ASB
Barium (Ba), total in water	0.40208 ± 11.8%	mg/L		8/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		8/23/2020	COW_ASB
Boron (B), total in water	1.1112 ± 24.2%	mg/L		8/23/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/23/2020	COW_ASB
Calcium (Ca), total in water	71.092 ± 20.9%	mg/L	8/23/2020	COW_ASB
Chromium (Cr), total in water	0.01200 ± 12.8%	mg/L	8/23/2020	COW_ASB
Copper (Cu), total in water	0.004778 ± 12.1%	mg/L	8/23/2020	COW_ASB
Iron (Fe), total in water	6.4480 ± 9.7%	mg/L	8/23/2020	COW_ASB
Lead (Pb), total in water	0.003791 ± 8.3%	mg/L	8/23/2020	COW_ASB
Magnesium (Mg), total in water	326.78 ± 10.5%	mg/L	8/23/2020	COW_ASB
Manganese (Mn), total in water	0.09012 ± 11.2%	mg/L	8/23/2020	COW_ASB
Nickel (Ni), total in water	0.11882 ± 12.2%	mg/L	8/23/2020	COW_ASB
Phosphorus (P), total in water	1.6761	mg/L	8/23/2020	COW_ASB
Potassium (K), total in water	227.78 ± 18.3%	mg/L	8/23/2020	COW_ASB
Selenium (Se), total in water	0.00249 ± 8.0%	mg/L	8/23/2020	COW_ASB
Sodium (Na), total in water	620.09 ± 9.2%	mg/L	8/23/2020	COW_ASB
Uranium (U), total in water	0.012600 ± 10.0%	mg/L	8/23/2020	COW_ASB
Zinc (Zn), total in water	0.03277 ± 10.7%	mg/L	8/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	178	mg/L	8/24/2020	COW_ASB
Total Hardness, calculated in water	1520	mg/L	8/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	237.00 ± 4.4%	NTU	8/18/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	1530.00	mg/L	8/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	112.00	mg/L	8/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	8/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	264.0	mg/L	8/31/2020	ALS
Dissolved Organic Carbon	204.0	mg/L	8/31/2020	ALS
Total Dissolved Carbon by Calculation	468.0	mg/L	8/31/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1270.000	mg/L	8/31/2020	ALS
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Cyanide

Cyanide, Total in water	0.0021	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0540	mg/L	8/31/2020	ALS
Antimony (Sb), dissolved in water	0.002650	mg/L	8/31/2020	ALS
Arsenic (As), dissolved in water	0.06250	mg/L	8/31/2020	ALS
Barium (Ba), dissolved in water	0.3430	mg/L	8/31/2020	ALS
Beryllium (Be), dissolved in water	0.00012	mg/L	8/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	8/31/2020	ALS

Total Metals by ICP-MS

Boron (B), dissolved in water	3.0900	mg/L	8/31/2020	ALS
Cadmium (Cd), dissolved in water	0.000014	mg/L	8/31/2020	ALS
Calcium (Ca), dissolved in water	61.5000	mg/L	8/31/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Chromium (Cr), dissolved in water	0.00215	mg/L	8/31/2020	ALS
Cobalt (Co), dissolved in water	0.00381	mg/L	8/31/2020	ALS
Copper (Cu), dissolved in water	0.00168	mg/L	8/31/2020	ALS
Hardness dissolved in water, calculated	1936.7	mg/L	8/31/2020	ALS
Iron (Fe), dissolved in water	0.0920	mg/L	8/31/2020	ALS
Lead (Pb), dissolved in water	0.000204	mg/L	8/31/2020	ALS
Lithium (Li), dissolved in water	0.4560	mg/L	8/31/2020	ALS
Magnesium (Mg), dissolved in water	433.0000	mg/L	8/31/2020	ALS
Manganese (Mn), dissolved in water	0.0838	mg/L	8/31/2020	ALS
Molybdenum (Mo), dissolved in water	0.019500	mg/L	8/31/2020	ALS
Nickel (Ni), dissolved in water	0.11000	mg/L	8/31/2020	ALS
Phosphorus (P), dissolved in water	1.490	mg/L	8/31/2020	ALS
Potassium (K), dissolved in water	264.0000	mg/L	8/31/2020	ALS
Rubidium (Rb), dissolved in water	0.0120	mg/L	8/31/2020	ALS
Selenium (Se), dissolved in water	0.001170	mg/L	8/31/2020	ALS
Silicon (Si), dissolved in water	5.1700	mg/L	8/31/2020	ALS
Silver (Ag), dissolved in water	0.000038	mg/L	8/31/2020	ALS
Sodium (Na), dissolved in water	762.0000	mg/L	8/31/2020	ALS
Strontium (Sr), dissolved in water	0.9970	mg/L	8/31/2020	ALS
Sulfur (S), dissolved in water	143.0000	mg/L	8/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Tin (Sn), dissolved in water	0.00090	mg/L	8/31/2020	ALS
Titanium (Ti), dissolved in water	0.00639	mg/L	8/31/2020	ALS
Tungsten (W), dissolved in water	0.00181	mg/L	8/31/2020	ALS
Uranium (U), dissolved in water	0.011600	mg/L	8/31/2020	ALS
Vanadium (V), dissolved in water	0.03890	mg/L	8/31/2020	ALS
Zinc (Zn), dissolved in water	0.0024	mg/L	8/31/2020	ALS
Zirconium (Zr), dissolved in water	0.01050	mg/L	8/31/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		8/31/2020	ALS
Mercury (Hg) dissolved in water	<0.0000050	mg/L	8/31/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	434.00	mg/L	8/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	1010	MPN/100mL	8/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	>2420	MPN/100mL	8/31/2020	ALS
Total Coliforms by QT97	>2420	MPN/100mL	8/31/2020	ALS

Dissolved Solids by Gravimetric Analysis

Total Dissolved Solid, calculated	4590	mg/L	8/20/2020	COW_ASB
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Total Suspended Solids by Gravimetric Analysis

Total Suspended Solids	1440 ± 8.4%	mg/L	8/19/2020	COW_ASB
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	8/31/2020	ALS
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Dissolved Organic Carbon by High Temperature Combustion

Dissolved Organic Carbon, as NPOC	256 ± 13%	mg/L	8/21/2020	COW_ASB
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	1440.00	mg/L	10/15/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	4.31	mg/L	10/15/2020	ALS
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Sample No. : 320097
Sample Description : SWQ25-Trip Blank
Sample Date : August 18, 2020
Sample Received : August 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	3.8 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, total to pH 4.5	3.8 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		8/19/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.007 ± 16.9%	mg/L		8/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		8/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		8/26/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		9/3/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		8/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		8/22/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		8/23/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		8/23/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		9/3/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2.1 ± 7.2%	uS		8/19/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	5.72 ± 0.07 units	units		8/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	11 ± 6.5%	mg/L		8/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	23.0	mg/L		8/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	34 ± 6.2%	mg/L		8/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	4.8 ± 13%	mg/L		8/20/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.9 ± 13%	mg/L		8/20/2020	COW_ASB

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	8/23/2020	COW_ASB
Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L	8/23/2020	COW_ASB
Barium (Ba), total in water	<0.000014 ± 11.8%	mg/L	8/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	8/23/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L	8/23/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/23/2020	COW_ASB
Calcium (Ca), total in water	0.037 ± 20.9%	mg/L	8/23/2020	COW_ASB
Chromium (Cr), total in water	0.00028 ± 12.8%	mg/L	8/23/2020	COW_ASB
Copper (Cu), total in water	0.001834 ± 12.1%	mg/L	8/23/2020	COW_ASB
Iron (Fe), total in water	0.00198 ± 9.7%	mg/L	8/23/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	8/23/2020	COW_ASB
Magnesium (Mg), total in water	0.006 ± 10.5%	mg/L	8/23/2020	COW_ASB
Manganese (Mn), total in water	0.00012 ± 11.2%	mg/L	8/23/2020	COW_ASB
Nickel (Ni), total in water	0.000148 ± 12.2%	mg/L	8/23/2020	COW_ASB
Phosphorus (P), total in water	0.0032	mg/L	8/23/2020	COW_ASB
Potassium (K), total in water	0.003 ± 18.3%	mg/L	8/23/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	8/23/2020	COW_ASB
Sodium (Na), total in water	0.116 ± 9.2%	mg/L	8/23/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	8/23/2020	COW_ASB
Zinc (Zn), total in water	0.00675 ± 10.7%	mg/L	8/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	<0.4	mg/L	8/24/2020	COW_ASB
Total Hardness, calculated in water	<0.4	mg/L	8/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.09 ± 4.4%	NTU	8/18/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	1.30	mg/L	8/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	8/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	8/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	<0.5	mg/L	8/31/2020	ALS
Dissolved Organic Carbon	<0.5	mg/L	8/31/2020	ALS
Total Dissolved Carbon by Calculation	<1.0	mg/L	8/31/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/26/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	<0.500	mg/L	8/31/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	8/31/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	8/31/2020	ALS
Arsenic (As), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Barium (Ba), dissolved in water	<0.0001	mg/L	8/31/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Boron (B), dissolved in water	<0.0100	mg/L	8/31/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	8/31/2020	ALS
Calcium (Ca), dissolved in water	<0.0500	mg/L	8/31/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Cobalt (Co), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Hardness dissolved in water, calculated	<0.2	mg/L	8/31/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	8/31/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Lithium (Li), dissolved in water	<0.0010	mg/L	8/31/2020	ALS
Magnesium (Mg), dissolved in water	0.0090	mg/L	8/31/2020	ALS
Manganese (Mn), dissolved in water	<0.0001	mg/L	8/31/2020	ALS
Molybdenum (Mo), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Nickel (Ni), dissolved in water	<0.00050	mg/L	8/31/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	8/31/2020	ALS
Potassium (K), dissolved in water	<0.0500	mg/L	8/31/2020	ALS
Rubidium (Rb), dissolved in water	<0.0002	mg/L	8/31/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Silicon (Si), dissolved in water	0.1800	mg/L	8/31/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Sodium (Na), dissolved in water	<0.0500	mg/L	8/31/2020	ALS
Strontium (Sr), dissolved in water	<0.0001	mg/L	8/31/2020	ALS
Sulfur (S), dissolved in water	<0.5000	mg/L	8/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	8/31/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Uranium (U), dissolved in water	0.000014	mg/L	8/31/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	8/31/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	8/31/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	8/31/2020	ALS

Mercury in Water

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		8/31/2020	ALS
Mercury (Hg) dissolved in water	<0.0000050	mg/L	8/31/2020	ALS

Sulfate in Water by IC

Sulfate in water by IC	<0.30	mg/L	8/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	8/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	8/31/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	8/31/2020	ALS

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	1.10	mg/L	10/15/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.01	mg/L	10/15/2020	ALS
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Sample No. : 320098
Sample Description : SWQ25-Field Blank
Sample Date : August 18, 2020
Sample Received : August 18, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	<3.0 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, total to pH 4.5	<3.0 ± 2.8%	mg/L		8/19/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		8/19/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.012 ± 16.9%	mg/L		8/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		8/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		8/26/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		8/31/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		8/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		8/22/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		8/23/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		8/23/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		9/3/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2.4 ± 7.2%	uS		8/19/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	5.58 ± 0.07 units	units		8/18/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4 ± 6.5%	mg/L		8/20/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	32.0	mg/L		8/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	36 ± 6.2%	mg/L		8/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.5 ± 13%	mg/L		8/20/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.6 ± 13%	mg/L		8/20/2020	COW_ASB

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	0.000275 ± 9.2%	mg/L	8/23/2020	COW_ASB
Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L	8/23/2020	COW_ASB
Barium (Ba), total in water	<0.000014 ± 11.8%	mg/L	8/23/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	8/23/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L	8/23/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	8/23/2020	COW_ASB
Calcium (Ca), total in water	0.019 ± 20.9%	mg/L	8/23/2020	COW_ASB
Chromium (Cr), total in water	0.00033 ± 12.8%	mg/L	8/23/2020	COW_ASB
Copper (Cu), total in water	0.001543 ± 12.1%	mg/L	8/23/2020	COW_ASB
Iron (Fe), total in water	0.00836 ± 9.7%	mg/L	8/23/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	8/23/2020	COW_ASB
Magnesium (Mg), total in water	0.003 ± 10.5%	mg/L	8/23/2020	COW_ASB
Manganese (Mn), total in water	0.00019 ± 11.2%	mg/L	8/23/2020	COW_ASB
Nickel (Ni), total in water	0.000108 ± 12.2%	mg/L	8/23/2020	COW_ASB
Phosphorus (P), total in water	<0.0012	mg/L	8/23/2020	COW_ASB
Potassium (K), total in water	<0.003 ± 18.3%	mg/L	8/23/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	8/23/2020	COW_ASB
Sodium (Na), total in water	0.094 ± 9.2%	mg/L	8/23/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	8/23/2020	COW_ASB
Zinc (Zn), total in water	0.00788 ± 10.7%	mg/L	8/23/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	<0.4	mg/L	8/24/2020	COW_ASB
Total Hardness, calculated in water	<0.4	mg/L	8/24/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.18 ± 4.4%	NTU	8/18/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	1.30	mg/L	8/31/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	8/31/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	8/31/2020	ALS
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Carbons

Dissolved Inorganic Carbon	<0.5	mg/L	8/31/2020	ALS
Dissolved Organic Carbon	2.5	mg/L	8/31/2020	ALS
Total Dissolved Carbon by Calculation	2.5	mg/L	8/31/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	<0.500	mg/L	8/31/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	8/31/2020	ALS
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Total Metals by ICP-MS

Antimony (Sb), dissolved in water	<0.000100	mg/L	8/31/2020	ALS
Arsenic (As), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Barium (Ba), dissolved in water	<0.0001	mg/L	8/31/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Boron (B), dissolved in water	<0.0100	mg/L	8/31/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	8/31/2020	ALS
Calcium (Ca), dissolved in water	<0.0500	mg/L	8/31/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Cobalt (Co), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Hardness dissolved in water, calculated	<0.2	mg/L	8/31/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	8/31/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Lithium (Li), dissolved in water	<0.0010	mg/L	8/31/2020	ALS
Magnesium (Mg), dissolved in water	0.0283	mg/L	8/31/2020	ALS
Manganese (Mn), dissolved in water	<0.0001	mg/L	8/31/2020	ALS
Molybdenum (Mo), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Nickel (Ni), dissolved in water	<0.00050	mg/L	8/31/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	8/31/2020	ALS
Potassium (K), dissolved in water	<0.0500	mg/L	8/31/2020	ALS
Rubidium (Rb), dissolved in water	<0.0002	mg/L	8/31/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	8/31/2020	ALS
Silicon (Si), dissolved in water	<0.0500	mg/L	8/31/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Sodium (Na), dissolved in water	<0.0500	mg/L	8/31/2020	ALS
Strontium (Sr), dissolved in water	<0.0001	mg/L	8/31/2020	ALS
Sulfur (S), dissolved in water	<0.5000	mg/L	8/31/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	8/31/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Tin (Sn), dissolved in water	0.00305	mg/L	8/31/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	8/31/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	8/31/2020	ALS
Uranium (U), dissolved in water	<0.000010	mg/L	8/31/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	8/31/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	8/31/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	8/31/2020	ALS

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		8/31/2020	ALS
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Mercury in Water

Mercury (Hg) dissolved in water	<0.000050	mg/L	8/31/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<0.30	mg/L	8/31/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	8/31/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	8/31/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	8/31/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	8/31/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	1.10	mg/L	10/15/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.01	mg/L	10/15/2020	ALS
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Reference Information

The Analytical Services Branch is accredited by CALA in accordance with ISO 17025 standards for specific tests.

Accredited Test Methods Used :**Test Method**

Alkalinity by Titration
 Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis
 BOD5 Seeded by Automated Method
 COD by Closed Reflux Method
 Conductivity by Electrometric Method
 Dissolved Organic Carbon by High Temperature Combustion
 Dissolved Solids by Gravimetric Analysis
 Hardness, Calcium & Total by Calculation
 Metals Total in Water by ICP-MS
 pH in Laboratory by Electrometric Method
 Total Kjeldahl Nitrogen Calculated

Reference Method

Modified from SM 2320 B. Titration Method
 Modified from SM 4500-NH3 H. NO3 I & P G. Flow Injection Analysis
 Modified from SM 5210 B. 5-Day BOD Test
 Modified from SM 5220 D. Closed Reflux, Colorimetric Method
 Modified from SM 2510 B. Laboratory Measurement
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 C. Total Dissolved Solids Dried at 180°C
 Calculated from EPA Methods 200.8
 Modified from EPA Methods 200.8
 Modified from SM 4500 H+B (Electrometric Method)
 Calculated from SM 5310 B. High Temperature Combustion and SM 4500-NO3 I. Flow Injection Analysis
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 B. Total Solids Dried at 103-105°C
 Modified from SM 2540 D. Total Suspended Solids Dried at 103-105°C
 Modified from SM 2130 A. Turbidity & 2130 B. Nephelometric Method

Total Nitrogen by High Temperature Combustion

Total Organic Carbon by High Temperature Combustion

Total Solids by Gravimetric Analysis

Total Suspended Solids by Gravimetric Analysis

Turbidity in Laboratory by Nephelometric Method

Additional Test Methods Used :**Test Method**

Chloride by Mercuric Thiocyanate Method
 Sulfate by HACH Method

Reference Method

Modified from SM 4500Cl-G Mercuric Thiocyanate & HACH Method 8113
 Modified from HACH Method 8051, SulfaVer 4, & SM 4500-SO4-2 E. Turbidimetric

Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4

COW_ASB : City of Winnipeg Main Laboratory at NEWPCC, 2230 Main Street, Winnipeg, MB R2V 4T8

Additional Comments :

- 1) A quality control report can be provided upon request. These reports may contain quality control results from other samples not included in this test report.
- 2) Analytical Services Branch test methods may incorporate modifications from specified reference methods to improve performance.

-
- 3) For subcontracted testing, the certificate of analysis can be provided upon request.
 - 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

----- **END OF REPORT** -----

Report To :

Mr. Chris KozakSolid Waste Services Division
1120 Waverley Street
Winnipeg MB R3E 3S8

Report Date : December 10, 2020

Phone : 204-986-2384

Email : ckozak@winnipeg.ca

Certificate of Analysis Job No. 572

Date Authorised : December 10, 2020

Total Number of Pages : 25

This report is issued under the authority of :

Brock Bradford

Analytical Services Branch Head

This report shall not be reproduced except in full without the written approval of the laboratory.

The results relate only to the sample(s) as received by the laboratory.

Additional information regarding the test methods used by Analytical Services Branch or contract laboratory is available upon request.

Sample No. : 328528
Sample Description : LQ-15-MH1
Sample Date : September 2, 2020
Sample Received : September 2, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	1050 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, total to pH 4.5	1050 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, total	Pending				COW_ASB
Nitrate+Nitrite Nitrogen	6.72 ± 7.8%	mg/L		9/16/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	13.3 ± 15%	mg/L		10/15/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	6.54	mg/L		10/15/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	3990 ± 6%	mg/L		9/4/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	12000 ± 10%	mg/L		9/5/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	62 ± 15%	mg/L		9/8/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	634 ± 6.1%	mg/L		9/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	25000 ± 7.2%	uS		9/8/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.57 ± 0.07 units	units		9/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	24100 ± 6.5%	mg/L		9/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	540.0	mg/L		9/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	24700 ± 6.2%	mg/L		9/8/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	83.7 ± 13%	mg/L		9/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	132.8 ± 13%	mg/L		9/4/2020	COW_ASB
Metals Total in Water by ICP-MS					

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	0.11112 ± 9.2%	mg/L	9/12/2020	COW_ASB
Arsenic (As), total in water	0.026403 ± 8.1%	mg/L	9/12/2020	COW_ASB
Barium (Ba), total in water	0.099779 ± 11.8%	mg/L	9/12/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/12/2020	COW_ASB
Boron (B), total in water	316.42 ± 24.2%	mg/L	9/12/2020	COW_ASB
Cadmium (Cd), total in water	0.002002 ± 10.4%	mg/L	9/12/2020	COW_ASB
Calcium (Ca), total in water	1538.7 ± 20.9%	mg/L	9/12/2020	COW_ASB
Chromium (Cr), total in water	0.04110 ± 12.8%	mg/L	9/12/2020	COW_ASB
Copper (Cu), total in water	3.6353 ± 12.1%	mg/L	9/12/2020	COW_ASB
Iron (Fe), total in water	0.95960 ± 9.7%	mg/L	9/12/2020	COW_ASB
Lead (Pb), total in water	0.019184 ± 8.3%	mg/L	9/12/2020	COW_ASB
Magnesium (Mg), total in water	3251.0 ± 10.5%	mg/L	9/12/2020	COW_ASB
Manganese (Mn), total in water	0.95203 ± 11.2%	mg/L	9/12/2020	COW_ASB
Nickel (Ni), total in water	0.38574 ± 12.2%	mg/L	9/12/2020	COW_ASB
Phosphorus (P), total in water	1.6665 ± 4.5%	mg/L	9/12/2020	COW_ASB
Potassium (K), total in water	2449.3 ± 18.3%	mg/L	9/12/2020	COW_ASB
Selenium (Se), total in water	0.30014 ± 8.0%	mg/L	9/12/2020	COW_ASB
Sodium (Na), total in water	36425 ± 9.2%	mg/L	9/12/2020	COW_ASB
Uranium (U), total in water	0.25071 ± 10.0%	mg/L	9/12/2020	COW_ASB
Zinc (Zn), total in water	1.8174 ± 10.7%	mg/L	9/12/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	3840	mg/L	9/16/2020	COW_ASB
Total Hardness, calculated in water	17200	mg/L	9/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	44.30 ± 4.4%	NTU	9/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	3220.000	mg/L	9/16/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	16500.00	mg/L	9/16/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	9/16/2020	ALS
Total Hydrocarbons (C6-C50)	268.00	mg/L	9/16/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	116.300	%	9/16/2020	ALS
Fraction 2 (C10-C16)	10.100	mg/L	9/16/2020	ALS
Fraction 3 (C16-C34)	242.000	mg/L	9/16/2020	ALS
Fraction 4 (C34-C50)	16.500	mg/L	9/16/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	<0.010	mg/L	9/16/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	0.00192	mg/L	9/16/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	0.0000450	mg/L	9/16/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/16/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	9/16/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/16/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/16/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	9/16/2020	ALS
Surrogate: 1,4-Difluorobenzene	94.3	%	9/16/2020	ALS
Acetone	<0.050	mg/L	9/16/2020	ALS
Benzene	<0.00050	mg/L	9/16/2020	ALS
Bromodichloromethane	<0.00050	mg/L	9/16/2020	ALS
Bromoform	<0.0010	mg/L	9/16/2020	ALS
Bromomethane	<0.001	mg/L	9/16/2020	ALS
Chlorobenzene	<0.0010	mg/L	9/16/2020	ALS
Chloroethane	<0.001	mg/L	9/16/2020	ALS
Chloroform	<0.00050	mg/L	9/16/2020	ALS
Chloromethane	<0.005	mg/L	9/16/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	9/16/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/16/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/16/2020	ALS
Dichloromethane	<0.00500	mg/L	9/16/2020	ALS
Ethylbenzene	<0.00050	mg/L	9/16/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	9/16/2020	ALS
o-Xylene	<0.0005	mg/L	9/16/2020	ALS
Styrene	<0.0010	mg/L	9/16/2020	ALS
Toluene	<0.00050	mg/L	9/16/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/16/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/16/2020	ALS
Vinyl Chloride	<0.0005	mg/L	9/16/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	9/16/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/16/2020	ALS
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Carbons

Dissolved Organic Carbon	61.6	mg/L	9/16/2020	ALS
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Oil & Grease - Gravimetric

Oil and Grease in water	15.1	mg/L	9/16/2020	ALS
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Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, Low	0.069 ± 16.9%	mg/L	9/10/2020	COW_ASB
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	9/16/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	9/16/2020	ALS
Total Coliforms by QT97	8	MPN/100mL	9/16/2020	ALS

Sample No. : 328529
Sample Description : LQ-18-MH10
Sample Date : September 2, 2020
Sample Received : September 2, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	3920 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, total to pH 4.5	3920 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, total	217 ± 6.8%	mg/L		9/10/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		9/10/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	247	mg/L		9/10/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	247 ± 15%	mg/L		9/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1400 ± 6%	mg/L		9/4/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	8.1 ± 10%	mg/L		9/5/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	>1880 ± 15%	mg/L		9/8/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	3040 ± 6.1%	mg/L		9/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8780 ± 7.2%	uS		9/8/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.84 ± 0.07 units	units		9/4/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	8720 ± 6.2%	mg/L		9/9/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	245 ± 13%	mg/L		9/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	247.5 ± 13%	mg/L		9/4/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		9/11/2020	COW_ASB
Arsenic (As), total in water	0.004310 ± 8.1%	mg/L		9/11/2020	COW_ASB
Barium (Ba), total in water	0.74956 ± 11.8%	mg/L		9/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		9/11/2020	COW_ASB

Metals Total in Water by ICP-MS

Boron (B), total in water	6.7075 ± 24.2%	mg/L	9/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/11/2020	COW_ASB
Calcium (Ca), total in water	295.10 ± 20.9%	mg/L	9/11/2020	COW_ASB
Chromium (Cr), total in water	0.04412 ± 12.8%	mg/L	9/11/2020	COW_ASB
Copper (Cu), total in water	0.011403 ± 12.1%	mg/L	9/11/2020	COW_ASB
Iron (Fe), total in water	13.421 ± 9.7%	mg/L	9/11/2020	COW_ASB
Lead (Pb), total in water	0.001493 ± 8.3%	mg/L	9/11/2020	COW_ASB
Magnesium (Mg), total in water	420.43 ± 10.5%	mg/L	9/11/2020	COW_ASB
Manganese (Mn), total in water	0.35313 ± 11.2%	mg/L	9/11/2020	COW_ASB
Nickel (Ni), total in water	0.059101 ± 12.2%	mg/L	9/11/2020	COW_ASB
Phosphorus (P), total in water	1.5268 ± 4.5%	mg/L	9/11/2020	COW_ASB
Potassium (K), total in water	224.36 ± 18.3%	mg/L	9/11/2020	COW_ASB
Selenium (Se), total in water	0.00948 ± 8.0%	mg/L	9/11/2020	COW_ASB
Sodium (Na), total in water	377.23 ± 9.2%	mg/L	9/11/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/11/2020	COW_ASB
Zinc (Zn), total in water	3.6223 ± 10.7%	mg/L	9/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	737	mg/L	9/16/2020	COW_ASB
Total Hardness, calculated in water	2470	mg/L	9/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	105.00 ± 4.4%	NTU	9/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	984.000	mg/L	9/16/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<15.00	mg/L	9/16/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	9/16/2020	ALS
Total Hydrocarbons (C6-C50)	1310.00	mg/L	9/16/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	106.100	%	9/16/2020	ALS
Fraction 2 (C10-C16)	4.940	mg/L	9/16/2020	ALS
Fraction 3 (C16-C34)	1030.000	mg/L	9/16/2020	ALS
Fraction 4 (C34-C50)	273.000	mg/L	9/16/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	0.020	mg/L	9/16/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	0.00072	mg/L	9/16/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	0.0000080	mg/L	9/16/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	9/16/2020	ALS
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VOC plus F1 by GCMS

1,1,2-Trichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/16/2020	ALS
1,2-Dichlorobenzene	0.00061	mg/L	9/16/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/16/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/16/2020	ALS
1,4-Dichlorobenzene	0.00170	mg/L	9/16/2020	ALS
Surrogate: 1,4-Difluorobenzene	92.5	%	9/16/2020	ALS
Acetone	<0.050	mg/L	9/16/2020	ALS
Benzene	0.00568	mg/L	9/16/2020	ALS
Bromodichloromethane	<0.00050	mg/L	9/16/2020	ALS
Bromoform	<0.0010	mg/L	9/16/2020	ALS
Bromomethane	<0.001	mg/L	9/16/2020	ALS
Chlorobenzene	0.0044	mg/L	9/16/2020	ALS
Chloroethane	0.028	mg/L	9/16/2020	ALS
Chloroform	<0.00050	mg/L	9/16/2020	ALS
Chloromethane	<0.005	mg/L	9/16/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	9/16/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/16/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/16/2020	ALS
Dichloromethane	<0.00500	mg/L	9/16/2020	ALS
Ethylbenzene	0.01310	mg/L	9/16/2020	ALS
Methyltertbutylether [MTBE]	0.0010	mg/L	9/16/2020	ALS
o-Xylene	0.0017	mg/L	9/16/2020	ALS
Styrene	<0.0010	mg/L	9/16/2020	ALS
Toluene	0.00058	mg/L	9/16/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/16/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/16/2020	ALS
Vinyl Chloride	<0.0005	mg/L	9/16/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.03770	mg/L	9/16/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/16/2020	ALS
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Total and E. coli, 1:10 dilution by QT97

Escherichia Coliform by QT97	<10	MPN/100mL	9/16/2020	ALS
Total Coliforms by QT97	720	MPN/100mL	9/16/2020	ALS

Carbons

Dissolved Organic Carbon	199.0	mg/L	9/16/2020	ALS
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Oil & Grease - Gravimetric

Oil and Grease in water	12000.0	mg/L	9/16/2020	ALS
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Dissolved Solids by Gravimetric Analysis

Dissolved Solids by Gravimetric Analysis

Total Dissolved Solid, calculated	7700	mg/L	9/9/2020	COW_ASB
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Total Suspended Solids by Gravimetric Analysis

Total Suspended Solids	1018 ± 8.4%	mg/L	9/3/2020	COW_ASB
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	9/16/2020	ALS
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Sample No. : 328530
Sample Description : LQ-18-MH3
Sample Date : September 2, 2020
Sample Received : September 2, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	4060 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, total to pH 4.5	4060 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, total	231 ± 6.8%	mg/L		9/10/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		9/10/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	246	mg/L		9/15/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	246 ± 15%	mg/L		9/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1320 ± 6%	mg/L		9/4/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2.2 ± 10%	mg/L		9/5/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	269 ± 15%	mg/L		9/8/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	744 ± 6.1%	mg/L		9/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8840 ± 7.2%	uS		9/8/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.97 ± 0.07 units	units		9/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4950 ± 6.5%	mg/L		9/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	244.0	mg/L		9/15/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5190 ± 6.2%	mg/L		9/8/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	208 ± 13%	mg/L		9/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	214.6 ± 13%	mg/L		9/4/2020	COW_ASB
Metals Total in Water by ICP-MS					

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	0.004586 ± 9.2%	mg/L	9/13/2020	COW_ASB
Arsenic (As), total in water	0.002943 ± 8.1%	mg/L	9/13/2020	COW_ASB
Barium (Ba), total in water	0.58101 ± 11.8%	mg/L	9/13/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/13/2020	COW_ASB
Boron (B), total in water	8.5740 ± 24.2%	mg/L	9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/13/2020	COW_ASB
Calcium (Ca), total in water	229.34 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.07788 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.008459 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	20.120 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	0.018956 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	403.52 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.29052 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.082107 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	1.1095 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	177.25 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.00745 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	774.81 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.04740 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	573	mg/L	9/15/2020	COW_ASB
Total Hardness, calculated in water	2230	mg/L	9/15/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	189.00 ± 4.4%	NTU	9/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1070.000	mg/L	9/16/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<15.00	mg/L	9/16/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	9/16/2020	ALS
Total Hydrocarbons (C6-C50)	1.56	mg/L	9/16/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	105.700	%	9/16/2020	ALS
Fraction 2 (C10-C16)	0.740	mg/L	9/16/2020	ALS
Fraction 3 (C16-C34)	0.440	mg/L	9/16/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	9/16/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	0.017	mg/L	9/16/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	9/16/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	0.0000120	mg/L	9/16/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/16/2020	ALS
1,2-Dichlorobenzene	0.00148	mg/L	9/16/2020	ALS
1,2-Dichloroethane	0.00054	mg/L	9/16/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/16/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/16/2020	ALS
1,4-Dichlorobenzene	0.00580	mg/L	9/16/2020	ALS
Surrogate: 1,4-Difluorobenzene	96.5	%	9/16/2020	ALS
Acetone	<0.050	mg/L	9/16/2020	ALS
Benzene	0.01570	mg/L	9/16/2020	ALS
Bromodichloromethane	<0.00050	mg/L	9/16/2020	ALS
Bromoform	<0.0010	mg/L	9/16/2020	ALS
Bromomethane	<0.001	mg/L	9/16/2020	ALS
Chlorobenzene	0.0114	mg/L	9/16/2020	ALS
Chloroethane	0.005	mg/L	9/16/2020	ALS
Chloroform	<0.00050	mg/L	9/16/2020	ALS
Chloromethane	<0.005	mg/L	9/16/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	9/16/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/16/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/16/2020	ALS
Dichloromethane	<0.00500	mg/L	9/16/2020	ALS
Ethylbenzene	0.07220	mg/L	9/16/2020	ALS
Methyltertbutylether [MTBE]	0.0014	mg/L	9/16/2020	ALS
o-Xylene	0.0216	mg/L	9/16/2020	ALS
Styrene	<0.0010	mg/L	9/16/2020	ALS
Toluene	0.00185	mg/L	9/16/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/16/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/16/2020	ALS
Vinyl Chloride	<0.0005	mg/L	9/16/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.20400	mg/L	9/16/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/16/2020	ALS
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Total and E. coli, 1:10 dilution by QT97

Escherichia Coliform by QT97	<10	MPN/100mL	9/16/2020	ALS
Total Coliforms by QT97	270	MPN/100mL	9/16/2020	ALS

Carbons

Dissolved Organic Carbon	179.0	mg/L	9/16/2020	ALS
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Oil & Grease - Gravimetric

Oil and Grease in water	<5.0	mg/L	9/16/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	9/16/2020	ALS
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Sample No. : 328531
Sample Description : LQ-18-MH6
Sample Date : September 2, 2020
Sample Received : September 2, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	3010 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, total to pH 4.5	3010 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, total	160 ± 6.8%	mg/L		9/10/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		9/10/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	193	mg/L		9/10/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	193 ± 15%	mg/L		9/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1940 ± 6%	mg/L		9/4/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		9/5/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	126 ± 15%	mg/L		9/8/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	612 ± 6.1%	mg/L		9/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8200 ± 7.2%	uS		9/8/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.03 ± 0.07 units	units		9/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4390 ± 6.5%	mg/L		9/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	296.0	mg/L		9/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	4680 ± 6.2%	mg/L		9/8/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	170 ± 13%	mg/L		9/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	176.0 ± 13%	mg/L		9/4/2020	COW_ASB
Metals Total in Water by ICP-MS					

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	0.013031 ± 9.2%	mg/L	9/13/2020	COW_ASB
Arsenic (As), total in water	0.003722 ± 8.1%	mg/L	9/13/2020	COW_ASB
Barium (Ba), total in water	0.66374 ± 11.8%	mg/L	9/13/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/13/2020	COW_ASB
Boron (B), total in water	4.0952 ± 24.2%	mg/L	9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/13/2020	COW_ASB
Calcium (Ca), total in water	127.31 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.03488 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.009822 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	22.687 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	0.033225 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	318.82 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.23187 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.070722 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	0.9727 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	133.36 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.01040 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	834.79 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.07884 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	318	mg/L	9/16/2020	COW_ASB
Total Hardness, calculated in water	1630	mg/L	9/16/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	187.00 ± 4.4%	NTU	9/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1270.000	mg/L	9/16/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<15.00	mg/L	9/16/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	0.16	mg/L	9/16/2020	ALS
Total Hydrocarbons (C6-C50)	1.24	mg/L	9/16/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	108.000	%	9/16/2020	ALS
Fraction 2 (C10-C16)	0.610	mg/L	9/16/2020	ALS
Fraction 3 (C16-C34)	0.300	mg/L	9/16/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	9/16/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	0.021	mg/L	9/16/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	9/16/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	0.0000190	mg/L	9/16/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/16/2020	ALS
1,2-Dichlorobenzene	0.00262	mg/L	9/16/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/16/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/16/2020	ALS
1,4-Dichlorobenzene	0.00630	mg/L	9/16/2020	ALS
Surrogate: 1,4-Difluorobenzene	96.3	%	9/16/2020	ALS
Acetone	<0.050	mg/L	9/16/2020	ALS
Benzene	0.01220	mg/L	9/16/2020	ALS
Bromodichloromethane	<0.00050	mg/L	9/16/2020	ALS
Bromoform	<0.0010	mg/L	9/16/2020	ALS
Bromomethane	<0.001	mg/L	9/16/2020	ALS
Chlorobenzene	0.0480	mg/L	9/16/2020	ALS
Chloroethane	<0.001	mg/L	9/16/2020	ALS
Chloroform	<0.00050	mg/L	9/16/2020	ALS
Chloromethane	<0.005	mg/L	9/16/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	9/16/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/16/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/16/2020	ALS
Dichloromethane	<0.00500	mg/L	9/16/2020	ALS
Ethylbenzene	0.03480	mg/L	9/16/2020	ALS
Methyltertbutylether [MTBE]	0.0007	mg/L	9/16/2020	ALS
o-Xylene	0.0088	mg/L	9/16/2020	ALS
Styrene	<0.0010	mg/L	9/16/2020	ALS
Toluene	0.00337	mg/L	9/16/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/16/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/16/2020	ALS
Vinyl Chloride	0.0016	mg/L	9/16/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.11200	mg/L	9/16/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/16/2020	ALS
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Total and E. coli, 1:10 dilution by QT97

Escherichia Coliform by QT97	<10	MPN/100mL	9/16/2020	ALS
Total Coliforms by QT97	380	MPN/100mL	9/16/2020	ALS

Carbons

Dissolved Organic Carbon	148.0	mg/L	9/16/2020	ALS
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Oil & Grease - Gravimetric

Oil and Grease in water	<5.0	mg/L	9/16/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	2	MPN/100mL	9/16/2020	ALS
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Sample No. : 328532
Sample Description : LQ-36-R5
Sample Date : September 2, 2020
Sample Received : September 2, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	2380 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, total to pH 4.5	2380 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, total	83.9 ± 6.8%	mg/L		9/10/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		9/10/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	84.1	mg/L		9/10/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	84.1 ± 15%	mg/L		9/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	730 ± 6%	mg/L		9/4/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		9/5/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	28 ± 15%	mg/L		9/8/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	302 ± 6.1%	mg/L		9/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	5180 ± 7.2%	uS		9/8/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.93 ± 0.07 units	units		9/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	2750 ± 6.5%	mg/L		9/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	666.0	mg/L		9/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3410 ± 6.2%	mg/L		9/8/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	82.7 ± 13%	mg/L		9/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	75.5 ± 13%	mg/L		9/4/2020	COW_ASB
Metals Total in Water by ICP-MS					

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	0.007055 ± 9.2%	mg/L	12/4/2020	COW_ASB
Arsenic (As), total in water	0.007333 ± 8.1%	mg/L	12/4/2020	COW_ASB
Barium (Ba), total in water	0.94639 ± 11.8%	mg/L	12/4/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	12/4/2020	COW_ASB
Boron (B), total in water	5.0109 ± 24.2%	mg/L	12/4/2020	COW_ASB
Cadmium (Cd), total in water	0.000181 ± 10.4%	mg/L	12/4/2020	COW_ASB
Calcium (Ca), total in water	305.85 ± 20.9%	mg/L	12/4/2020	COW_ASB
Chromium (Cr), total in water	0.02981 ± 12.8%	mg/L	12/4/2020	COW_ASB
Copper (Cu), total in water	0.099296 ± 12.1%	mg/L	12/4/2020	COW_ASB
Iron (Fe), total in water	49.517 ± 9.7%	mg/L	12/4/2020	COW_ASB
Lead (Pb), total in water	0.018935 ± 8.3%	mg/L	12/4/2020	COW_ASB
Magnesium (Mg), total in water	235.77 ± 10.5%	mg/L	12/4/2020	COW_ASB
Manganese (Mn), total in water	0.42897 ± 11.2%	mg/L	12/4/2020	COW_ASB
Nickel (Ni), total in water	0.062486 ± 12.2%	mg/L	12/4/2020	COW_ASB
Phosphorus (P), total in water	1.1651 ± 4.5%	mg/L	12/4/2020	COW_ASB
Potassium (K), total in water	68.414 ± 18.3%	mg/L	12/4/2020	COW_ASB
Selenium (Se), total in water	0.00377 ± 8.0%	mg/L	12/4/2020	COW_ASB
Sodium (Na), total in water	377.23 ± 9.2%	mg/L	12/4/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	12/4/2020	COW_ASB
Zinc (Zn), total in water	0.22936 ± 10.7%	mg/L	12/4/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	764	mg/L	12/8/2020	COW_ASB
Total Hardness, calculated in water	1730	mg/L	12/8/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	136.00 ± 4.4%	NTU	9/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	550.000	mg/L	9/16/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<6.00	mg/L	9/16/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	9/16/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	9/16/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	114.700	%	9/16/2020	ALS
Fraction 2 (C10-C16)	0.250	mg/L	9/16/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	9/16/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	9/16/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	<0.010	mg/L	9/16/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	9/16/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	0.0000220	mg/L	9/16/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/16/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	9/16/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/16/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/16/2020	ALS
1,4-Dichlorobenzene	0.00110	mg/L	9/16/2020	ALS
Surrogate: 1,4-Difluorobenzene	95.3	%	9/16/2020	ALS
Acetone	<0.050	mg/L	9/16/2020	ALS
Benzene	0.01170	mg/L	9/16/2020	ALS
Bromodichloromethane	<0.00050	mg/L	9/16/2020	ALS
Bromoform	<0.0010	mg/L	9/16/2020	ALS
Bromomethane	<0.001	mg/L	9/16/2020	ALS
Chlorobenzene	<0.0010	mg/L	9/16/2020	ALS
Chloroethane	<0.001	mg/L	9/16/2020	ALS
Chloroform	<0.00050	mg/L	9/16/2020	ALS
Chloromethane	<0.005	mg/L	9/16/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	9/16/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/16/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/16/2020	ALS
Dichloromethane	<0.00500	mg/L	9/16/2020	ALS
Ethylbenzene	0.01610	mg/L	9/16/2020	ALS
Methyltertbutylether [MTBE]	0.0010	mg/L	9/16/2020	ALS
o-Xylene	0.0024	mg/L	9/16/2020	ALS
Styrene	<0.0010	mg/L	9/16/2020	ALS
Toluene	0.00114	mg/L	9/16/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/16/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/16/2020	ALS
Vinyl Chloride	<0.0005	mg/L	9/16/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.01700	mg/L	9/16/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/16/2020	ALS
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Carbons

Dissolved Organic Carbon	62.5	mg/L	9/16/2020	ALS
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Oil & Grease - Gravimetric

Oil and Grease in water	13.1	mg/L	9/16/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	9/16/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	9/16/2020	ALS
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Total Coliforms by QT97	<1	MPN/100mL	9/16/2020	ALS
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Sample No. : 328533
Sample Description : LQ-36-R7
Sample Date : September 2, 2020
Sample Received : September 2, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	39500 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, total to pH 4.5	39500 ± 2.8%	mg/L		9/4/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/4/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, total	132 ± 6.8%	mg/L		9/10/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		9/10/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	152	mg/L		9/10/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	152 ± 15%	mg/L		9/4/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1040 ± 6%	mg/L		9/4/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	8.6 ± 10%	mg/L		9/5/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	42 ± 15%	mg/L		9/8/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	973 ± 6.1%	mg/L		9/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	7860 ± 7.2%	uS		9/8/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.05 ± 0.07 units	units		9/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4910 ± 6.5%	mg/L		9/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	442.0	mg/L		9/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5350 ± 6.2%	mg/L		9/8/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	329 ± 13%	mg/L		9/4/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	334.5 ± 13%	mg/L		9/4/2020	COW_ASB
Metals Total in Water by ICP-MS					

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	0.004193 ± 9.2%	mg/L	9/11/2020	COW_ASB
Arsenic (As), total in water	0.007220 ± 8.1%	mg/L	9/11/2020	COW_ASB
Barium (Ba), total in water	0.72231 ± 11.8%	mg/L	9/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/11/2020	COW_ASB
Boron (B), total in water	6.5939 ± 24.2%	mg/L	9/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/11/2020	COW_ASB
Calcium (Ca), total in water	288.38 ± 20.9%	mg/L	9/11/2020	COW_ASB
Chromium (Cr), total in water	0.02709 ± 12.8%	mg/L	9/11/2020	COW_ASB
Copper (Cu), total in water	0.010802 ± 12.1%	mg/L	9/11/2020	COW_ASB
Iron (Fe), total in water	26.631 ± 9.7%	mg/L	9/11/2020	COW_ASB
Lead (Pb), total in water	0.008976 ± 8.3%	mg/L	9/11/2020	COW_ASB
Magnesium (Mg), total in water	440.77 ± 10.5%	mg/L	9/11/2020	COW_ASB
Manganese (Mn), total in water	0.37267 ± 11.2%	mg/L	9/11/2020	COW_ASB
Nickel (Ni), total in water	0.048055 ± 12.2%	mg/L	9/11/2020	COW_ASB
Phosphorus (P), total in water	1.3792 ± 4.5%	mg/L	9/11/2020	COW_ASB
Potassium (K), total in water	184.86 ± 18.3%	mg/L	9/11/2020	COW_ASB
Selenium (Se), total in water	0.00987 ± 8.0%	mg/L	9/11/2020	COW_ASB
Sodium (Na), total in water	704.19 ± 9.2%	mg/L	9/11/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/11/2020	COW_ASB
Zinc (Zn), total in water	0.14310 ± 10.7%	mg/L	9/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	720	mg/L	9/12/2020	COW_ASB
Total Hardness, calculated in water	2540	mg/L	9/12/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	193.00 ± 4.4%	NTU	9/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	753.000	mg/L	9/16/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	75.00	mg/L	9/16/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	9/16/2020	ALS
Total Hydrocarbons (C6-C50)	1.44	mg/L	9/16/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	109.300	%	9/16/2020	ALS
Fraction 2 (C10-C16)	0.820	mg/L	9/16/2020	ALS
Fraction 3 (C16-C34)	0.330	mg/L	9/16/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	9/16/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	0.020	mg/L	9/16/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	9/16/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	0.0000300	mg/L	9/16/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/16/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	9/16/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	9/16/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/16/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/16/2020	ALS
1,4-Dichlorobenzene	0.00110	mg/L	9/16/2020	ALS
Surrogate: 1,4-Difluorobenzene	95.3	%	9/16/2020	ALS
Acetone	<0.050	mg/L	9/16/2020	ALS
Benzene	0.00661	mg/L	9/16/2020	ALS
Bromodichloromethane	<0.00050	mg/L	9/16/2020	ALS
Bromoform	<0.0010	mg/L	9/16/2020	ALS
Bromomethane	<0.001	mg/L	9/16/2020	ALS
Chlorobenzene	0.0041	mg/L	9/16/2020	ALS
Chloroethane	0.012	mg/L	9/16/2020	ALS
Chloroform	<0.00050	mg/L	9/16/2020	ALS
Chloromethane	<0.005	mg/L	9/16/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	9/16/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/16/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/16/2020	ALS
Dichloromethane	<0.00500	mg/L	9/16/2020	ALS
Ethylbenzene	0.08380	mg/L	9/16/2020	ALS
Methyltertbutylether [MTBE]	0.0005	mg/L	9/16/2020	ALS
o-Xylene	0.0089	mg/L	9/16/2020	ALS
Styrene	<0.0010	mg/L	9/16/2020	ALS
Toluene	0.01650	mg/L	9/16/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/16/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/16/2020	ALS
Vinyl Chloride	0.0020	mg/L	9/16/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.22700	mg/L	9/16/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/16/2020	ALS
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Carbons

Dissolved Organic Carbon	251.0	mg/L	9/16/2020	ALS
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Oil & Grease - Gravimetric

Oil and Grease in water	9.5	mg/L	9/16/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	9/16/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	9/16/2020	ALS
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Total Coliforms by QT97	2	MPN/100mL	9/16/2020	ALS
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Reference Information

The Analytical Services Branch is accredited by CALA in accordance with ISO 17025 standards for specific tests.

Accredited Test Methods Used :**Test Method**

Alkalinity by Titration
 Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis
 BOD5 Seeded by Automated Method
 COD by Closed Reflux Method
 Conductivity by Electrometric Method
 Dissolved Organic Carbon by High Temperature Combustion
 Dissolved Solids by Gravimetric Analysis
 Hardness, Calcium & Total by Calculation
 Metals Total in Water by ICP-MS
 pH in Laboratory by Electrometric Method
 Total Kjeldahl Nitrogen Calculated

 Total Nitrogen by High Temperature Combustion
 Total Organic Carbon by High Temperature Combustion
 Total Solids by Gravimetric Analysis
 Total Suspended Solids by Gravimetric Analysis
 Turbidity in Laboratory by Nephelometric Method

Reference Method

Modified from SM 2320 B. Titration Method
 Modified from SM 4500-NH3 H. NO3 I & P G. Flow Injection Analysis
 Modified from SM 5210 B. 5-Day BOD Test
 Modified from SM 5220 D. Closed Reflux, Colorimetric Method
 Modified from SM 2510 B. Laboratory Measurement
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 C. Total Dissolved Solids Dried at 180°C
 Calculated from EPA Methods 200.8
 Modified from EPA Methods 200.8
 Modified from SM 4500 H+B (Electrometric Method)
 Calculated from SM 5310 B. High Temperature Combustion and SM 4500-NO3 I. Flow Injection Analysis
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 B. Total Solids Dried at 103-105°C
 Modified from SM 2540 D. Total Suspended Solids Dried at 103-105°C
 Modified from SM 2130 A. Turbidity & 2130 B. Nephelometric Method

Additional Test Methods Used :**Test Method**

Chloride by Mercuric Thiocyanate Method
 Sulfate by HACH Method

Reference Method

Modified from SM 4500Cl-G Mercuric Thiocyanate & HACH Method 8113
 Modified from HACH Method 8051, SulfaVer 4, & SM 4500-SO4-2 E. Turbidimetric

Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4
 COW_ASB : City of Winnipeg Main Laboratory at NEWPCC, 2230 Main Street, Winnipeg, MB R2V 4T8

Additional Comments :

- 1) A quality control report can be provided upon request. These reports may contain quality control results from other samples not included in this test report.
- 2) Analytical Services Branch test methods may incorporate modifications from specified reference methods to improve performance.
- 3) For subcontracted testing, the certificate of analysis can be provided upon request.
- 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

----- **END OF REPORT** -----

Report To :

Mr. Chris KozakSolid Waste Services Division
1120 Waverley Street
Winnipeg MB R3E 3S8

Report Date : October 26, 2020

Phone : 204-986-2384

Email : ckozak@winnipeg.ca

Certificate of Analysis Job No. 573

Date Authorised : October 26, 2020

Total Number of Pages : 139

This report is issued under the authority of :

Brock Bradford

Analytical Services Branch Head

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The results relate only to the sample(s) as received by the laboratory.

Additional information regarding the test methods used by Analytical Services Branch or contract laboratory is available upon request.

Sample No. : 328534
Sample Description : LQ-25-MH3
Sample Date : September 8, 2020
Sample Received : September 8, 2020
Sample Plan : Ad hoc sample
Sample Comments : ABSDN

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	6810 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, total to pH 4.5	6810 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2860 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	299 ± 15%	mg/L		9/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	1960 ± 6.1%	mg/L		9/14/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	15100 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.23 ± 0.07 units	units		9/8/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	7950 ± 6.5%	mg/L		9/12/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	8380 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	432.0	mg/L		9/14/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1310	mg/L		9/28/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1310 ± 15%	mg/L		9/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	610 ± 13%	mg/L		9/11/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	610.3 ± 13%	mg/L		9/11/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.013908 ± 9.2%	mg/L		9/13/2020	COW_ASB
Arsenic (As), total in water	0.009881 ± 8.1%	mg/L		9/13/2020	COW_ASB

Metals Total in Water by ICP-MS

Barium (Ba), total in water	0.61028 ± 11.8%	mg/L	9/13/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/13/2020	COW_ASB
Boron (B), total in water	9.3845 ± 24.2%	mg/L	9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/13/2020	COW_ASB
Calcium (Ca), total in water	191.52 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.14354 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.009495 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	14.234 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	0.006103 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	479.37 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.21663 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.25357 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	3.5830 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	487.81 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.00945 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	1414.5 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.09809 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	478	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	2450	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	95.70 ± 4.4%	NTU	9/8/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<1.0000	ug/L	9/28/2020	ALS
Surrogate: p-Terphenyl d14	29.8000	%	9/28/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	440.00	mg/L	9/28/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	370.00	mg/L	9/28/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	5.52	mg/L	9/28/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	9/28/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	748.00	mg/L	9/28/2020	ALS
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Carbons

Dissolved Inorganic Carbon	1380.0	mg/L	9/28/2020	ALS
Dissolved Organic Carbon	547.0	mg/L	9/28/2020	ALS
Total Dissolved Carbon by Calculation	1930.0	mg/L	9/28/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2160.000	mg/L	9/28/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<30.00	mg/L	9/28/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	0.003890	mg/L	9/28/2020	ALS
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2-Methyl Naphthalene	0.006070	mg/L	9/28/2020	ALS
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Acenaphthene	<0.001500	mg/L	9/28/2020	ALS
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Acenaphthylene	0.000048	mg/L	9/28/2020	ALS
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Acridine	<0.000206	mg/L	9/28/2020	ALS
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Anthracene	0.000221	mg/L	9/28/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	9/28/2020	ALS
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Benzo(a)anthracene	0.000039	mg/L	9/28/2020	ALS
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Benzo(a)pyrene	0.0000097	mg/L	9/28/2020	ALS
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Benzo(b&j)fluoranthene	0.000013	mg/L	9/28/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	9/28/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	9/28/2020	ALS
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Chrysene	<0.000020	mg/L	9/28/2020	ALS
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Surrogate: d10-Acenaphthene	86.6	%	9/28/2020	ALS
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Surrogate: d10-Phenanthrene	101.7	%	9/28/2020	ALS
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Surrogate: d12-Chrysene	70.5	%	9/28/2020	ALS
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Surrogate: d8-Naphthalene	243.2	%	9/28/2020	ALS
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Surrogate: d9-Acridine (SS)	120.5	%	9/28/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	9/28/2020	ALS
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Fluoranthene	<0.000140	mg/L	9/28/2020	ALS
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Fluorene	0.001180	mg/L	9/28/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	9/28/2020	ALS
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Naphthalene	<0.031000	mg/L	9/28/2020	ALS
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Phenanthrene	0.001630	mg/L	9/28/2020	ALS
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Pyrene	<0.000110	mg/L	9/28/2020	ALS
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Quinoline	<0.000020	mg/L	9/28/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.13	mg/L	9/28/2020	ALS
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Total Hydrocarbons (C6-C50)	1.85	mg/L	9/28/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	98.100	%	9/28/2020	ALS
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Fraction 2 (C10-C16)	0.660	mg/L	9/28/2020	ALS
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Fraction 3 (C16-C34)	0.350	mg/L	9/28/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	9/28/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	0.00089	mg/L	9/28/2020	ALS
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Cyanide

Cyanide

Cyanide, Total in water	0.0127	mg/L	9/28/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		9/28/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000500	mg/L	9/28/2020	ALS
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Mercury (Hg) total in water	<0.0000500	mg/L	9/28/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.1240	mg/L	9/28/2020	ALS
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Aluminum (Al), total in water	0.2910	mg/L	9/28/2020	ALS
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Antimony (Sb), dissolved in water	0.003300	mg/L	9/28/2020	ALS
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Antimony (Sb), total in water	0.0041	mg/L	9/28/2020	ALS
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Arsenic (As), dissolved in water	0.01070	mg/L	9/28/2020	ALS
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Arsenic (As), total in water	0.01220	mg/L	9/28/2020	ALS
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Barium (Ba), dissolved in water	0.5520	mg/L	9/28/2020	ALS
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Barium (Ba), total in water	0.5950	mg/L	9/28/2020	ALS
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Beryllium (Be), dissolved in water	<0.00100	mg/L	9/28/2020	ALS
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Beryllium (Be), total in water	<0.00100	mg/L	9/28/2020	ALS
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Bismuth (Bi), dissolved in water	<0.000500	mg/L	9/28/2020	ALS
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Bismuth (Bi), total in water	<0.000500	mg/L	9/28/2020	ALS
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Boron (B), dissolved in water	8.7000	mg/L	9/28/2020	ALS
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Boron (B), total in water	9.6000	mg/L	9/28/2020	ALS
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Cadmium (Cd), dissolved in water	<0.000050	mg/L	9/28/2020	ALS
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Cadmium (Cd), total in water	0.000141	mg/L	9/28/2020	ALS
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Calcium (Ca), dissolved in water	176.0000	mg/L	9/28/2020	ALS
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Calcium (Ca), total in water	192.0000	mg/L	9/28/2020	ALS
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Cesium (Cs), dissolved in water	0.000570	mg/L	9/28/2020	ALS
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Cesium (Cs), total in water	0.000690	mg/L	9/28/2020	ALS
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Chromium (Cr), dissolved in water	0.12800	mg/L	9/28/2020	ALS
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Chromium (Cr), total in water	0.14400	mg/L	9/28/2020	ALS
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Cobalt (Co), dissolved in water	0.03210	mg/L	9/28/2020	ALS
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Cobalt (Co), total in water	0.03540	mg/L	9/28/2020	ALS
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Copper (Cu), dissolved in water	<0.00200	mg/L	9/28/2020	ALS
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Copper (Cu), total in water	<0.00500	mg/L	9/28/2020	ALS
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Hardness dissolved in water, calculated	2539.7	mg/L	9/28/2020	ALS
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Hardness total in water, calculated	2834.9	mg/L	9/28/2020	ALS
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Iron (Fe), dissolved in water	5.4200	mg/L	9/28/2020	ALS
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Iron (Fe), total in water	7.3300	mg/L	9/28/2020	ALS
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Lead (Pb), dissolved in water	<0.000500	mg/L	9/28/2020	ALS
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Lead (Pb), total in water	0.005820	mg/L	9/28/2020	ALS
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Lithium (Li), dissolved in water	0.3070	mg/L	9/28/2020	ALS
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Lithium (Li), total in water	0.3370	mg/L	9/28/2020	ALS
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Magnesium (Mg), dissolved in water	510.0000	mg/L	9/28/2020	ALS
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Total Metals by ICP-MS

Magnesium (Mg), total in water	572.0000	mg/L	9/28/2020	ALS
Manganese (Mn), dissolved in water	0.1910	mg/L	9/28/2020	ALS
Manganese (Mn), total in water	0.2030	mg/L	9/28/2020	ALS
Molybdenum (Mo), dissolved in water	0.005120	mg/L	9/28/2020	ALS
Molybdenum (Mo), total in water	0.006390	mg/L	9/28/2020	ALS
Nickel (Ni), dissolved in water	0.23800	mg/L	9/28/2020	ALS
Nickel (Ni), total in water	0.25800	mg/L	9/28/2020	ALS
Phosphorus (P), dissolved in water	3.250	mg/L	9/28/2020	ALS
Phosphorus (P), total in water	3.800	mg/L	9/28/2020	ALS
Potassium (K), dissolved in water	536.0000	mg/L	9/28/2020	ALS
Potassium (K), total in water	554.0000	mg/L	9/28/2020	ALS
Rubidium (Rb), dissolved in water	0.2030	mg/L	9/28/2020	ALS
Rubidium (Rb), total in water	0.2130	mg/L	9/28/2020	ALS
Selenium (Se), dissolved in water	0.001250	mg/L	9/28/2020	ALS
Selenium (Se), total in water	0.001640	mg/L	9/28/2020	ALS
Silicon (Si), dissolved in water	18.4000	mg/L	9/28/2020	ALS
Silicon (Si), total in water	22.8000	mg/L	9/28/2020	ALS
Silver (Ag), dissolved in water	0.000100	mg/L	9/28/2020	ALS
Silver (Ag), total in water	0.000140	mg/L	9/28/2020	ALS
Sodium (Na), dissolved in water	1460.0000	mg/L	9/28/2020	ALS
Sodium (Na), total in water	1580.0000	mg/L	9/28/2020	ALS
Strontium (Sr), dissolved in water	5.6800	mg/L	9/28/2020	ALS
Strontium (Sr), total in water	5.7200	mg/L	9/28/2020	ALS
Sulfur (S), dissolved in water	19.3000	mg/L	9/28/2020	ALS
Sulfur (S), total in water	29.7000	mg/L	9/28/2020	ALS
Tellurium (Te), dissolved in water	<0.00200	mg/L	9/28/2020	ALS
Tellurium (Te), total in water	<0.00200	mg/L	9/28/2020	ALS
Thallium (Tl), dissolved in water	<0.000100	mg/L	9/28/2020	ALS
Thallium (Tl), total in water	<0.000100	mg/L	9/28/2020	ALS
Thorium (Th), dissolved in water	<0.00100	mg/L	9/28/2020	ALS
Thorium (Th), total in water	<0.00100	mg/L	9/28/2020	ALS
Tin (Sn), dissolved in water	0.02250	mg/L	9/28/2020	ALS
Tin (Sn), total in water	0.03260	mg/L	9/28/2020	ALS
Titanium (Ti), dissolved in water	0.04380	mg/L	9/28/2020	ALS
Titanium (Ti), total in water	0.05770	mg/L	9/28/2020	ALS
Tungsten (W), dissolved in water	0.00920	mg/L	9/28/2020	ALS
Tungsten (W), total in water	0.00710	mg/L	9/28/2020	ALS
Uranium (U), dissolved in water	<0.000100	mg/L	9/28/2020	ALS
Uranium (U), total in water	0.000180	mg/L	9/28/2020	ALS
Vanadium (V), dissolved in water	0.01020	mg/L	9/28/2020	ALS
Vanadium (V), total in water	0.01330	mg/L	9/28/2020	ALS

Total Metals by ICP-MS

Zinc (Zn), dissolved in water	<0.0100	mg/L	9/28/2020	ALS
Zinc (Zn), total in water	0.0470	mg/L	9/28/2020	ALS
Zirconium (Zr), dissolved in water	0.04540	mg/L	9/28/2020	ALS
Zirconium (Zr), total in water	0.04620	mg/L	9/28/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	70.200	%	9/28/2020	ALS
Surrogate: d14-Terphenyl in water	NRSUB			ALS
Diazinon in water	<0.1000	ug/L	9/28/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	5.8	mg/L	9/28/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	9/28/2020	ALS
1,1,1-Trichloroethane	0.00447	mg/L	9/28/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00200	mg/L	9/28/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/28/2020	ALS
1,1-Dichloroethane	0.05060	mg/L	9/28/2020	ALS
1,1-Dichloropropene	<0.0010	mg/L	9/28/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	9/28/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	9/28/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	9/28/2020	ALS
1,2,4-Trimethylbenzene	0.0626	mg/L	9/28/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	9/28/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/28/2020	ALS
1,2-Dichlorobenzene	0.00085	mg/L	9/28/2020	ALS
1,2-Dichloroethane	0.00113	mg/L	9/28/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/28/2020	ALS
1,3,5-Trimethylbenzene	0.0115	mg/L	9/28/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/28/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	9/28/2020	ALS
1,4-Dichlorobenzene	0.01070	mg/L	9/28/2020	ALS
Surrogate: 1,4-Difluorobenzene	94.4	%	9/28/2020	ALS
2,2-Dichloropropane	<0.0010	mg/L	9/28/2020	ALS
2-Chlorotoluene	<0.02	mg/L	9/28/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.02	mg/L	9/28/2020	ALS
Surrogate: 4-Bromofluorobenzene	90.9	%	9/28/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	9/28/2020	ALS
4-Isopropyltoluene	0.0400	mg/L	9/28/2020	ALS
Acetone	0.558	mg/L	9/28/2020	ALS
Benzene	0.01210	mg/L	9/28/2020	ALS
Bromobenzene	<0.0010	mg/L	9/28/2020	ALS
Bromochloromethane	<0.0010	mg/L	9/28/2020	ALS

VOC plus F1 by GCMS

Bromodichloromethane	<0.00050	mg/L	9/28/2020	ALS
Bromoform	<0.0010	mg/L	9/28/2020	ALS
Bromomethane	<0.001	mg/L	9/28/2020	ALS
Carbon disulfide	<0.0050	mg/L	9/28/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	9/28/2020	ALS
Chlorobenzene	0.0096	mg/L	9/28/2020	ALS
Chloroethane	0.087	mg/L	9/28/2020	ALS
Chloroform	<0.00050	mg/L	9/28/2020	ALS
Chloromethane	<0.005	mg/L	9/28/2020	ALS
cis-1,2-Dichloroethene	<0.00100	mg/L	9/28/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	9/28/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/28/2020	ALS
Dibromomethane	<0.0010	mg/L	9/28/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/28/2020	ALS
Dichloromethane	<0.00500	mg/L	9/28/2020	ALS
Ethylbenzene	0.14500	mg/L	9/28/2020	ALS
F1	0.8400	mg/L	9/28/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	9/28/2020	ALS
Hexane	<0.0010	mg/L	9/28/2020	ALS
Isopropylbenzene	0.0039	mg/L	9/28/2020	ALS
M+P-Xylenes	0.5640	mg/L	9/28/2020	ALS
Methylethylketone [MEK]	0.67	mg/L	9/28/2020	ALS
Methylisobutylketone [MIBK]	0.03	mg/L	9/28/2020	ALS
Methytertbutylether [MTBE]	0.0022	mg/L	9/28/2020	ALS
n-Butylbenzene	0.0023	mg/L	9/28/2020	ALS
o-Xylene	0.1580	mg/L	9/28/2020	ALS
sec-Butylbenzene	<0.0020	mg/L	9/28/2020	ALS
Styrene	<0.0010	mg/L	9/28/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	9/28/2020	ALS
Tetrachloroethene	<0.00050	mg/L	9/28/2020	ALS
Toluene	0.03300	mg/L	9/28/2020	ALS
trans-1,2-Dichloroethene	<0.0010	mg/L	9/28/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/28/2020	ALS
Trichloroethene	<0.00050	mg/L	9/28/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/28/2020	ALS
Vinyl Chloride	0.0020	mg/L	9/28/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/28/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.72300	mg/L	9/28/2020	ALS
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PCBs

PCBs				
Aroclor 1016	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1221	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1232	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1242	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1248	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1254	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1260	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1262	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1268	<0.1000	ug/L	9/28/2020	ALS
Total Polychlorinated Biphenyls	<0.3000	ug/L	9/28/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.117	mg/L	9/28/2020	ALS
Phenoxy Acid Herbicides				
2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	9/28/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0050	ug/L	9/28/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	9/28/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0050	ug/L	9/28/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	53.8	%	9/28/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	0.0022	ug/L	9/28/2020	ALS
Bromoxynil in water	<0.0050	ug/L	9/28/2020	ALS
Clopyralid in water	<0.0050	ug/L	9/28/2020	ALS
Dicamba in water	<0.0010	ug/L	9/28/2020	ALS
Dinoseb in water	<0.0050	ug/L	9/28/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	9/28/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0050	ug/L	9/28/2020	ALS
Mecoprop in water	0.2010	ug/L	9/28/2020	ALS
Picloram in water	<0.0152	ug/L	9/28/2020	ALS
Triclopyr in water	<0.0010	mg/L	9/28/2020	ALS
Fecal coliforms, 1:10 dilution by QT97				
Fecal Coliforms, 1:10 dilution by QT97	10	MPN/100mL	9/28/2020	ALS
Total and E. coli, 1:10 dilution by QT97				
Escherichia Coliform by QT97	<10	MPN/100mL	9/28/2020	ALS
Total Coliforms by QT97	>24200	MPN/100mL	9/28/2020	ALS
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis				
Ammonia, total	879 ± 6.8%	mg/L	9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	2.20 ± 7.5%	mg/L	9/17/2020	COW_ASB
Organochlorine Pesticides				
alpha-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Aldrin	<0.0400	ug/L	10/7/2020	ALS

Organochlorine Pesticides

alpha-Benzenhexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/7/2020	ALS
beta-Benzenhexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/7/2020	ALS
Surrogate: Decachlorobiphenyl	34.1	%	10/7/2020	ALS
Dieldrin	<0.0400	ug/L	10/7/2020	ALS
Endosulfan I	<0.0350	ug/L	10/7/2020	ALS
Endosulfan II	<0.0500	ug/L	10/7/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/7/2020	ALS
Endrin	<0.0500	ug/L	10/7/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/7/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/7/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Heptachlor	<0.0400	ug/L	10/7/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/7/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/7/2020	ALS
Methoxychlor	<0.0800	ug/L	10/7/2020	ALS
Mirex	<0.0800	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<2.0000	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Oxychlordane	<0.04	ug/L	10/7/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Surrogate: Tetrachloro-m-xylene	60.2	%	10/7/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/7/2020	ALS

Sample No. : 328535
Sample Description : LQ-25-MH8
Sample Date : September 9, 2020
Sample Received : September 9, 2020
Sample Plan : Ad hoc sample
Sample Comments : ABSDN

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	7920 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, total to pH 4.5	7920 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1910 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	171 ± 15%	mg/L		9/15/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	2930 ± 6.1%	mg/L		9/14/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	18100 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.30 ± 0.07 units	units		9/9/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	8880 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	2050 ± 15%	mg/L		10/15/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	2050	mg/L		10/15/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	790 ± 13%	mg/L		9/11/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	858.0 ± 13%	mg/L		9/11/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		9/13/2020	COW_ASB
Arsenic (As), total in water	0.016167 ± 8.1%	mg/L		9/13/2020	COW_ASB
Barium (Ba), total in water	0.52730 ± 11.8%	mg/L		9/13/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		9/13/2020	COW_ASB
Boron (B), total in water	12.620 ± 24.2%	mg/L		9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		9/13/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	131.43 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.18091 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.049750 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	2.3602 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	0.002864 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	337.31 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.19677 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.33081 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	8.2490 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	587.58 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.01272 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	1657.2 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.33489 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	328	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	1720	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	73.10 ± 4.4%	NTU	9/9/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<5.0000	ug/L	9/29/2020	ALS
Surrogate: p-Terphenyl d14	72.2000	%	9/29/2020	ALS

Alkalinity, Carbonate

Alkalinity, carbonate	10.10	mg/L	9/29/2020	ALS
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	489.00	mg/L	9/29/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	9/29/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	418.00	mg/L	9/29/2020	ALS
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Carbons

Dissolved Inorganic Carbon	1660.0	mg/L	9/29/2020	ALS
Dissolved Organic Carbon	420.0	mg/L	9/29/2020	ALS
Total Dissolved Carbon by Calculation	2080.0	mg/L	9/29/2020	ALS

Ammonia by colour

Ammonia, total (as N) in water	1180.00	mg/L	9/29/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2050.000	mg/L	9/29/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	57.00	mg/L	9/29/2020	ALS
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CCME PAHs in mg/L

CCME PAHs in mg/L

1-Methyl Naphthalene	0.003000	mg/L	9/29/2020	ALS
2-Methyl Naphthalene	0.004060	mg/L	9/29/2020	ALS
Acenaphthene	0.007890	mg/L	9/29/2020	ALS
Acenaphthylene	<0.000300	mg/L	9/29/2020	ALS
Acridine	0.002350	mg/L	9/29/2020	ALS
Anthracene	0.008370	mg/L	9/29/2020	ALS
B(a)P Total Potency Equivalent	0.005730	mg/L	9/29/2020	ALS
Benzo(a)anthracene	<0.000120	mg/L	9/29/2020	ALS
Benzo(a)pyrene	0.0033400	mg/L	9/29/2020	ALS
Benzo(b&j)fluoranthene	0.009060	mg/L	9/29/2020	ALS
Benzo(g,h,i)perylene	0.001840	mg/L	9/29/2020	ALS
Benzo(k)fluoranthene	0.007860	mg/L	9/29/2020	ALS
Chrysene	<0.000260	mg/L	9/29/2020	ALS
Surrogate: d10-Acenaphthene	96.5	%	9/29/2020	ALS
Surrogate: d10-Phenanthrene	114.7	%	9/29/2020	ALS
Surrogate: d12-Chrysene	75.2	%	9/29/2020	ALS
Surrogate: d8-Naphthalene	329.2	%	9/29/2020	ALS
Surrogate: d9-Acridine (SS)	111.4	%	9/29/2020	ALS
Dibenzo(a,h)anthracene	0.0006200	mg/L	9/29/2020	ALS
Fluoranthene	0.020700	mg/L	9/29/2020	ALS
Fluorene	0.006770	mg/L	9/29/2020	ALS
Indeno(1,2,3-cd)pyrene	0.000436	mg/L	9/29/2020	ALS
Naphthalene	<0.016000	mg/L	9/29/2020	ALS
Phenanthrene	0.023200	mg/L	9/29/2020	ALS
Pyrene	0.004970	mg/L	9/29/2020	ALS
Quinoline	<0.000160	mg/L	9/29/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	0.14	mg/L	9/29/2020	ALS
Total Hydrocarbons (C6-C50)	120.00	mg/L	9/29/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	92.300	%	9/29/2020	ALS
Fraction 2 (C10-C16)	2.180	mg/L	9/29/2020	ALS
Fraction 3 (C16-C34)	99.400	mg/L	9/29/2020	ALS
Fraction 4 (C34-C50)	17.900	mg/L	9/29/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	0.00144	mg/L	9/29/2020	ALS
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Cyanide

Cyanide, Total in water	0.0141	mg/L	9/29/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		9/29/2020	ALS
Mercury (Hg) dissolved in water	<0.0000500	mg/L	9/29/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000500	mg/L	9/29/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.2530	mg/L	9/29/2020	ALS
Aluminum (Al), total in water	0.5790	mg/L	9/29/2020	ALS
Antimony (Sb), dissolved in water	0.001800	mg/L	9/29/2020	ALS
Antimony (Sb), total in water	0.0024	mg/L	9/29/2020	ALS
Arsenic (As), dissolved in water	0.02750	mg/L	9/29/2020	ALS
Arsenic (As), total in water	0.03050	mg/L	9/29/2020	ALS
Barium (Ba), dissolved in water	0.5110	mg/L	9/29/2020	ALS
Barium (Ba), total in water	0.5810	mg/L	9/29/2020	ALS
Beryllium (Be), dissolved in water	<0.00100	mg/L	9/29/2020	ALS
Beryllium (Be), total in water	<0.00100	mg/L	9/29/2020	ALS
Bismuth (Bi), dissolved in water	<0.000500	mg/L	9/29/2020	ALS
Bismuth (Bi), total in water	<0.000500	mg/L	9/29/2020	ALS
Boron (B), dissolved in water	11.6000	mg/L	9/29/2020	ALS
Boron (B), total in water	13.2000	mg/L	9/29/2020	ALS
Cadmium (Cd), dissolved in water	<0.000050	mg/L	9/29/2020	ALS
Cadmium (Cd), total in water	0.000180	mg/L	9/29/2020	ALS
Calcium (Ca), dissolved in water	120.0000	mg/L	9/29/2020	ALS
Calcium (Ca), total in water	137.0000	mg/L	9/29/2020	ALS
Cesium (Cs), dissolved in water	0.000550	mg/L	9/29/2020	ALS
Cesium (Cs), total in water	0.000550	mg/L	9/29/2020	ALS
Chromium (Cr), dissolved in water	0.16300	mg/L	9/29/2020	ALS
Chromium (Cr), total in water	0.18000	mg/L	9/29/2020	ALS
Cobalt (Co), dissolved in water	0.04410	mg/L	9/29/2020	ALS
Cobalt (Co), total in water	0.04730	mg/L	9/29/2020	ALS
Copper (Cu), dissolved in water	<0.00200	mg/L	9/29/2020	ALS
Copper (Cu), total in water	<0.00500	mg/L	9/29/2020	ALS
Hardness dissolved in water, calculated	1823.3	mg/L	9/29/2020	ALS
Hardness total in water, calculated	1948.1	mg/L	9/29/2020	ALS
Iron (Fe), dissolved in water	0.9800	mg/L	9/29/2020	ALS
Iron (Fe), total in water	4.5300	mg/L	9/29/2020	ALS
Lead (Pb), dissolved in water	0.000550	mg/L	9/29/2020	ALS
Lead (Pb), total in water	0.010100	mg/L	9/29/2020	ALS
Lithium (Li), dissolved in water	0.4840	mg/L	9/29/2020	ALS
Lithium (Li), total in water	0.5140	mg/L	9/29/2020	ALS
Magnesium (Mg), dissolved in water	370.0000	mg/L	9/29/2020	ALS
Magnesium (Mg), total in water	390.0000	mg/L	9/29/2020	ALS
Manganese (Mn), dissolved in water	0.1960	mg/L	9/29/2020	ALS
Manganese (Mn), total in water	0.2290	mg/L	9/29/2020	ALS
Molybdenum (Mo), dissolved in water	0.004650	mg/L	9/29/2020	ALS

Total Metals by ICP-MS

Molybdenum (Mo), total in water	0.006530	mg/L	9/29/2020	ALS
Nickel (Ni), dissolved in water	0.29100	mg/L	9/29/2020	ALS
Nickel (Ni), total in water	0.30400	mg/L	9/29/2020	ALS
Phosphorus (P), dissolved in water	8.560	mg/L	9/29/2020	ALS
Phosphorus (P), total in water	9.410	mg/L	9/29/2020	ALS
Potassium (K), dissolved in water	637.0000	mg/L	9/29/2020	ALS
Potassium (K), total in water	646.0000	mg/L	9/29/2020	ALS
Rubidium (Rb), dissolved in water	0.2000	mg/L	9/29/2020	ALS
Rubidium (Rb), total in water	0.2050	mg/L	9/29/2020	ALS
Selenium (Se), dissolved in water	0.001740	mg/L	9/29/2020	ALS
Selenium (Se), total in water	0.001810	mg/L	9/29/2020	ALS
Silicon (Si), dissolved in water	24.5000	mg/L	9/29/2020	ALS
Silicon (Si), total in water	27.2000	mg/L	9/29/2020	ALS
Silver (Ag), dissolved in water	0.000170	mg/L	9/29/2020	ALS
Silver (Ag), total in water	0.000140	mg/L	9/29/2020	ALS
Sodium (Na), dissolved in water	1820.0000	mg/L	9/29/2020	ALS
Sodium (Na), total in water	1830.0000	mg/L	9/29/2020	ALS
Strontium (Sr), dissolved in water	5.1000	mg/L	9/29/2020	ALS
Strontium (Sr), total in water	5.2700	mg/L	9/29/2020	ALS
Sulfur (S), dissolved in water	57.1000	mg/L	9/29/2020	ALS
Sulfur (S), total in water	68.1000	mg/L	9/29/2020	ALS
Tellurium (Te), dissolved in water	<0.00200	mg/L	9/29/2020	ALS
Tellurium (Te), total in water	<0.00200	mg/L	9/29/2020	ALS
Thallium (Tl), dissolved in water	<0.000100	mg/L	9/29/2020	ALS
Thallium (Tl), total in water	<0.000100	mg/L	9/29/2020	ALS
Thorium (Th), dissolved in water	<0.00100	mg/L	9/29/2020	ALS
Thorium (Th), total in water	<0.00100	mg/L	9/29/2020	ALS
Tin (Sn), dissolved in water	0.03280	mg/L	9/29/2020	ALS
Tin (Sn), total in water	0.05200	mg/L	9/29/2020	ALS
Titanium (Ti), dissolved in water	0.07990	mg/L	9/29/2020	ALS
Titanium (Ti), total in water	0.11800	mg/L	9/29/2020	ALS
Tungsten (W), dissolved in water	0.00966	mg/L	9/29/2020	ALS
Tungsten (W), total in water	0.00590	mg/L	9/29/2020	ALS
Uranium (U), dissolved in water	0.000190	mg/L	9/29/2020	ALS
Uranium (U), total in water	0.000220	mg/L	9/29/2020	ALS
Vanadium (V), dissolved in water	0.01990	mg/L	9/29/2020	ALS
Vanadium (V), total in water	0.02350	mg/L	9/29/2020	ALS
Zinc (Zn), dissolved in water	0.0110	mg/L	9/29/2020	ALS
Zinc (Zn), total in water	0.3590	mg/L	9/29/2020	ALS
Zirconium (Zr), dissolved in water	0.08320	mg/L	9/29/2020	ALS
Zirconium (Zr), total in water	0.07930	mg/L	9/29/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	66.900	%	9/29/2020	ALS
Surrogate: d14-Terphenyl in water	62.700	%	9/29/2020	ALS
Diazinon in water	<62.0000	ug/L	9/29/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	66.0	mg/L	9/29/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	9/29/2020	ALS
1,1,1-Trichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1-Dichloroethane	0.00128	mg/L	9/29/2020	ALS
1,1-Dichloropropene	<0.0010	mg/L	9/29/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,2,4-Trimethylbenzene	0.0100	mg/L	9/29/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	9/29/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/29/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	9/29/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,3,5-Trimethylbenzene	0.0013	mg/L	9/29/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,4-Dichlorobenzene	0.00490	mg/L	9/29/2020	ALS
Surrogate: 1,4-Difluorobenzene	91.0	%	9/29/2020	ALS
2,2-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
2-Chlorotoluene	<0.02	mg/L	9/29/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.02	mg/L	9/29/2020	ALS
Surrogate: 4-Bromofluorobenzene	77.4	%	9/29/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	9/29/2020	ALS
4-Isopropyltoluene	0.0067	mg/L	9/29/2020	ALS
Acetone	<0.050	mg/L	9/29/2020	ALS
Benzene	0.00630	mg/L	9/29/2020	ALS
Bromobenzene	<0.0010	mg/L	9/29/2020	ALS
Bromochloromethane	<0.0010	mg/L	9/29/2020	ALS
Bromodichloromethane	<0.00050	mg/L	9/29/2020	ALS
Bromoform	<0.0010	mg/L	9/29/2020	ALS
Bromomethane	<0.001	mg/L	9/29/2020	ALS
Carbon disulfide	<0.0050	mg/L	9/29/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	9/29/2020	ALS

VOC plus F1 by GCMS

Chlorobenzene	0.0055	mg/L	9/29/2020	ALS
Chloroethane	0.002	mg/L	9/29/2020	ALS
Chloroform	<0.00050	mg/L	9/29/2020	ALS
Chloromethane	<0.005	mg/L	9/29/2020	ALS
cis-1,2-Dichloroethene	<0.00100	mg/L	9/29/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	9/29/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/29/2020	ALS
Dibromomethane	<0.0010	mg/L	9/29/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/29/2020	ALS
Dichloromethane	<0.00500	mg/L	9/29/2020	ALS
Ethylbenzene	0.00925	mg/L	9/29/2020	ALS
F1	0.2100	mg/L	9/29/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	9/29/2020	ALS
Hexane	<0.0010	mg/L	9/29/2020	ALS
Isopropylbenzene	0.0012	mg/L	9/29/2020	ALS
M+P-Xylenes	0.0386	mg/L	9/29/2020	ALS
Methylethylketone [MEK]	<0.02	mg/L	9/29/2020	ALS
Methylisobutylketone [MIBK]	<0.02	mg/L	9/29/2020	ALS
Methytertbutylether [MTBE]	0.0011	mg/L	9/29/2020	ALS
n-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
o-Xylene	0.0137	mg/L	9/29/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
Styrene	<0.0010	mg/L	9/29/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
Tetrachloroethene	<0.00050	mg/L	9/29/2020	ALS
Toluene	0.00432	mg/L	9/29/2020	ALS
trans-1,2-Dichloroethene	<0.0010	mg/L	9/29/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/29/2020	ALS
Trichloroethene	<0.00050	mg/L	9/29/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/29/2020	ALS
Vinyl Chloride	0.0008	mg/L	9/29/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/29/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.05230	mg/L	9/29/2020	ALS
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PCBs

Aroclor 1016	<1.0000	ug/L	9/29/2020	ALS
Aroclor 1221	<1.0000	ug/L	9/29/2020	ALS
Aroclor 1232	<1.0000	ug/L	9/29/2020	ALS
Aroclor 1242	13.4000	ug/L	9/29/2020	ALS
Aroclor 1248	<1.0000	ug/L	9/29/2020	ALS

PCBs					
Aroclor 1254	<1.0000	ug/L	9/29/2020	ALS	
Aroclor 1260	<2.0000	ug/L	9/29/2020	ALS	
Aroclor 1262	<2.0000	ug/L	9/29/2020	ALS	
Aroclor 1268	<2.0000	ug/L	9/29/2020	ALS	
Total Polychlorinated Biphenyls	13.4000	ug/L	9/29/2020	ALS	
Phenol (4AAP)					
Phenols (4AAP) in water	0.029	mg/L	9/29/2020	ALS	
Phenoxy Acid Herbicides					
2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	9/29/2020	ALS	
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	9/29/2020	ALS	
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	9/29/2020	ALS	
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0050	ug/L	9/29/2020	ALS	
Surrogate: 2,4-Dichlorophenylacetic Acid in water	51.0	%	9/29/2020	ALS	
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	0.0013	ug/L	9/29/2020	ALS	
Bromoxynil in water	<0.0050	ug/L	9/29/2020	ALS	
Clopyralid in water	<0.0050	ug/L	9/29/2020	ALS	
Dicamba in water	<0.0010	ug/L	9/29/2020	ALS	
Dinoseb in water	<0.0050	ug/L	9/29/2020	ALS	
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	9/29/2020	ALS	
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0050	ug/L	9/29/2020	ALS	
Mecoprop in water	0.2810	ug/L	9/29/2020	ALS	
Picloram in water	<0.0050	ug/L	9/29/2020	ALS	
Triclopyr in water	<0.0010	mg/L	9/29/2020	ALS	
Fecal coliforms, 1:10 dilution by QT97					
Fecal Coliforms, 1:10 dilution by QT97	100	MPN/100mL	9/29/2020	ALS	
Total and E. coli, 1:10 dilution by QT97					
Escherichia Coliform by QT97	60	MPN/100mL	9/29/2020	ALS	
Total Coliforms by QT97	2480	MPN/100mL	9/29/2020	ALS	
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid, calculated	8490	mg/L	9/11/2020	COW_ASB	
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids	398.0 ± 8.4%	mg/L	9/11/2020	COW_ASB	
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, total	1160 ± 6.8%	mg/L	9/17/2020	COW_ASB	
Nitrate+Nitrite Nitrogen	0.032 ± 7.8%	mg/L	9/17/2020	COW_ASB	
Phosphorus, dissolved (0.45um)	5.80 ± 7.5%	mg/L	9/17/2020	COW_ASB	
Organochlorine Pesticides					
alpha-Chlordane	<0.0400	ug/L	10/8/2020	ALS	
Aldrin	<0.0400	ug/L	10/8/2020	ALS	
alpha-Benzenhexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/8/2020	ALS	

Organochlorine Pesticides

beta-Benzenehexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/8/2020	ALS
Surrogate: Decachlorobiphenyl	9.4	%	10/8/2020	ALS
Dieldrin	<0.0400	ug/L	10/8/2020	ALS
Endosulfan I	<0.0350	ug/L	10/8/2020	ALS
Endosulfan II	<0.0350	ug/L	10/8/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/8/2020	ALS
Endrin	<0.0500	ug/L	10/8/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/8/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/8/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/8/2020	ALS
Heptachlor	<0.0400	ug/L	10/8/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/8/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/8/2020	ALS
Methoxychlor	<0.8000	ug/L	10/8/2020	ALS
Mirex	<0.4000	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Oxychlordane	<0.04	ug/L	10/8/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Surrogate: Tetrachloro-m-xylene	87.6	%	10/8/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/8/2020	ALS

Sample No. : 328536
Sample Description : LQ-25-MH13
Sample Date : September 8, 2020
Sample Received : September 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	6140 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, total to pH 4.5	6140 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1990 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	82 ± 15%	mg/L		9/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	1470 ± 6.1%	mg/L		9/14/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	14100 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.30 ± 0.07 units	units		9/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	7990 ± 6.5%	mg/L		9/12/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	8270 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	282.0	mg/L		9/14/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	896	mg/L		9/17/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	896 ± 15%	mg/L		9/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	441 ± 13%	mg/L		9/11/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	444.1 ± 13%	mg/L		9/11/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		9/13/2020	COW_ASB
Arsenic (As), total in water	0.009533 ± 8.1%	mg/L		9/13/2020	COW_ASB
Barium (Ba), total in water	0.64116 ± 11.8%	mg/L		9/13/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/13/2020	COW_ASB
Boron (B), total in water	7.2456 ± 24.2%	mg/L	9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/13/2020	COW_ASB
Calcium (Ca), total in water	186.93 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.05401 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.006533 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	2.7788 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	0.014983 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	559.80 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.21115 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.24059 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	3.7501 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	470.15 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.00538 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	1345.4 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.06653 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	467	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	2770	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	31.00 ± 4.4%	NTU	9/9/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<1.0000	ug/L	10/7/2020	ALS
Surrogate: p-Terphenyl d14	38.9000	%	10/7/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	388.00	mg/L	10/7/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	8.16	mg/L	10/7/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/7/2020	ALS
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Carbons

Dissolved Inorganic Carbon	1310.0	mg/L	10/7/2020	ALS
Dissolved Organic Carbon	400.0	mg/L	10/7/2020	ALS
Total Dissolved Carbon by Calculation	1710.0	mg/L	10/7/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2040.000	mg/L	10/7/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	32.00	mg/L	10/7/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	0.003670	mg/L	10/7/2020	ALS
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CCME PAHs in mg/L

2-Methyl Naphthalene	0.005600	mg/L	10/7/2020	ALS
Acenaphthene	0.002910	mg/L	10/7/2020	ALS
Acenaphthylene	0.000067	mg/L	10/7/2020	ALS
Acridine	0.000407	mg/L	10/7/2020	ALS
Anthracene	0.000824	mg/L	10/7/2020	ALS
B(a)P Total Potency Equivalent	0.000276	mg/L	10/7/2020	ALS
Benzo(a)anthracene	0.000468	mg/L	10/7/2020	ALS
Benzo(a)pyrene	0.0001820	mg/L	10/7/2020	ALS
Benzo(b&j)fluoranthene	0.000164	mg/L	10/7/2020	ALS
Benzo(g,h,i)perylene	0.000077	mg/L	10/7/2020	ALS
Benzo(k)fluoranthene	0.000035	mg/L	10/7/2020	ALS
Chrysene	0.000469	mg/L	10/7/2020	ALS
Surrogate: d10-Acenaphthene	92.8	%	10/7/2020	ALS
Surrogate: d10-Phenanthrene	102.6	%	10/7/2020	ALS
Surrogate: d12-Chrysene	73.2	%	10/7/2020	ALS
Surrogate: d8-Naphthalene	90.8	%	10/7/2020	ALS
Surrogate: d9-Acridine (SS)	123.9	%	10/7/2020	ALS
Dibenzo(a,h)anthracene	0.0000198	mg/L	10/7/2020	ALS
Fluoranthene	0.001250	mg/L	10/7/2020	ALS
Fluorene	0.002440	mg/L	10/7/2020	ALS
Indeno(1,2,3-cd)pyrene	0.000026	mg/L	10/7/2020	ALS
Naphthalene	0.023400	mg/L	10/7/2020	ALS
Phenanthrene	0.004640	mg/L	10/7/2020	ALS
Pyrene	0.001220	mg/L	10/7/2020	ALS
Quinoline	<0.000031	mg/L	10/7/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.11	mg/L	10/7/2020	ALS
Total Hydrocarbons (C6-C50)	1.20	mg/L	10/7/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	93.000	%	10/7/2020	ALS
Fraction 2 (C10-C16)	0.500	mg/L	10/7/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	10/7/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	10/7/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	0.00121	mg/L	10/7/2020	ALS
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Cyanide

Cyanide, Total in water	0.0089	mg/L	10/7/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/7/2020	ALS
Mercury (Hg) dissolved in water	<0.0000500	mg/L	10/7/2020	ALS
Mercury (Hg) total in water	<0.0000500	mg/L	10/7/2020	ALS

Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0980	mg/L	10/7/2020	ALS
Aluminum (Al), total in water	0.2840	mg/L	10/7/2020	ALS
Antimony (Sb), dissolved in water	0.003500	mg/L	10/7/2020	ALS
Antimony (Sb), total in water	0.0042	mg/L	10/7/2020	ALS
Arsenic (As), dissolved in water	0.01010	mg/L	10/7/2020	ALS
Arsenic (As), total in water	0.01120	mg/L	10/7/2020	ALS
Barium (Ba), dissolved in water	0.6080	mg/L	10/7/2020	ALS
Barium (Ba), total in water	0.6490	mg/L	10/7/2020	ALS
Beryllium (Be), dissolved in water	<0.00100	mg/L	10/7/2020	ALS
Beryllium (Be), total in water	<0.00100	mg/L	10/7/2020	ALS
Bismuth (Bi), dissolved in water	<0.000500	mg/L	10/7/2020	ALS
Bismuth (Bi), total in water	<0.000500	mg/L	10/7/2020	ALS
Boron (B), dissolved in water	6.9000	mg/L	10/7/2020	ALS
Boron (B), total in water	7.2500	mg/L	10/7/2020	ALS
Cadmium (Cd), dissolved in water	<0.000050	mg/L	10/7/2020	ALS
Cadmium (Cd), total in water	0.000208	mg/L	10/7/2020	ALS
Calcium (Ca), dissolved in water	186.0000	mg/L	10/7/2020	ALS
Calcium (Ca), total in water	191.0000	mg/L	10/7/2020	ALS
Cesium (Cs), dissolved in water	0.000270	mg/L	10/7/2020	ALS
Cesium (Cs), total in water	0.000320	mg/L	10/7/2020	ALS
Chromium (Cr), dissolved in water	0.04510	mg/L	10/7/2020	ALS
Chromium (Cr), total in water	0.05040	mg/L	10/7/2020	ALS
Cobalt (Co), dissolved in water	0.02670	mg/L	10/7/2020	ALS
Cobalt (Co), total in water	0.02860	mg/L	10/7/2020	ALS
Copper (Cu), dissolved in water	<0.00200	mg/L	10/7/2020	ALS
Copper (Cu), total in water	<0.00500	mg/L	10/7/2020	ALS
Hardness dissolved in water, calculated	3108.2	mg/L	10/7/2020	ALS
Hardness total in water, calculated	3186.6	mg/L	10/7/2020	ALS
Iron (Fe), dissolved in water	2.5600	mg/L	10/7/2020	ALS
Iron (Fe), total in water	2.8800	mg/L	10/7/2020	ALS
Lead (Pb), dissolved in water	0.001090	mg/L	10/7/2020	ALS
Lead (Pb), total in water	0.015400	mg/L	10/7/2020	ALS
Lithium (Li), dissolved in water	0.4440	mg/L	10/7/2020	ALS
Lithium (Li), total in water	0.4540	mg/L	10/7/2020	ALS
Magnesium (Mg), dissolved in water	642.0000	mg/L	10/7/2020	ALS
Magnesium (Mg), total in water	658.0000	mg/L	10/7/2020	ALS
Manganese (Mn), dissolved in water	0.2070	mg/L	10/7/2020	ALS
Manganese (Mn), total in water	0.2180	mg/L	10/7/2020	ALS
Molybdenum (Mo), dissolved in water	0.003780	mg/L	10/7/2020	ALS
Molybdenum (Mo), total in water	0.004660	mg/L	10/7/2020	ALS
Nickel (Ni), dissolved in water	0.22100	mg/L	10/7/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), total in water	0.23900	mg/L	10/7/2020	ALS
Phosphorus (P), dissolved in water	3.370	mg/L	10/7/2020	ALS
Phosphorus (P), total in water	4.110	mg/L	10/7/2020	ALS
Potassium (K), dissolved in water	502.0000	mg/L	10/7/2020	ALS
Potassium (K), total in water	509.0000	mg/L	10/7/2020	ALS
Rubidium (Rb), dissolved in water	0.1520	mg/L	10/7/2020	ALS
Rubidium (Rb), total in water	0.1590	mg/L	10/7/2020	ALS
Selenium (Se), dissolved in water	0.001020	mg/L	10/7/2020	ALS
Selenium (Se), total in water	0.000940	mg/L	10/7/2020	ALS
Silicon (Si), dissolved in water	20.3000	mg/L	10/7/2020	ALS
Silicon (Si), total in water	20.9000	mg/L	10/7/2020	ALS
Silver (Ag), dissolved in water	<0.000100	mg/L	10/7/2020	ALS
Silver (Ag), total in water	<0.000100	mg/L	10/7/2020	ALS
Sodium (Na), dissolved in water	1440.0000	mg/L	10/7/2020	ALS
Sodium (Na), total in water	1470.0000	mg/L	10/7/2020	ALS
Strontium (Sr), dissolved in water	4.0600	mg/L	10/7/2020	ALS
Strontium (Sr), total in water	4.2600	mg/L	10/7/2020	ALS
Sulfur (S), dissolved in water	31.9000	mg/L	10/7/2020	ALS
Sulfur (S), total in water	35.3000	mg/L	10/7/2020	ALS
Tellurium (Te), dissolved in water	<0.00200	mg/L	10/7/2020	ALS
Tellurium (Te), total in water	<0.00200	mg/L	10/7/2020	ALS
Thallium (Tl), dissolved in water	<0.000100	mg/L	10/7/2020	ALS
Thallium (Tl), total in water	<0.000100	mg/L	10/7/2020	ALS
Thorium (Th), dissolved in water	<0.00100	mg/L	10/7/2020	ALS
Thorium (Th), total in water	<0.00100	mg/L	10/7/2020	ALS
Tin (Sn), dissolved in water	0.00830	mg/L	10/7/2020	ALS
Tin (Sn), total in water	0.01330	mg/L	10/7/2020	ALS
Titanium (Ti), dissolved in water	0.03960	mg/L	10/7/2020	ALS
Titanium (Ti), total in water	0.04790	mg/L	10/7/2020	ALS
Tungsten (W), dissolved in water	0.00550	mg/L	10/7/2020	ALS
Tungsten (W), total in water	0.00350	mg/L	10/7/2020	ALS
Uranium (U), dissolved in water	0.000190	mg/L	10/7/2020	ALS
Uranium (U), total in water	0.000220	mg/L	10/7/2020	ALS
Vanadium (V), dissolved in water	0.01010	mg/L	10/7/2020	ALS
Vanadium (V), total in water	0.01110	mg/L	10/7/2020	ALS
Zinc (Zn), dissolved in water	0.0130	mg/L	10/7/2020	ALS
Zinc (Zn), total in water	0.0530	mg/L	10/7/2020	ALS
Zirconium (Zr), dissolved in water	0.03070	mg/L	10/7/2020	ALS
Zirconium (Zr), total in water	0.02680	mg/L	10/7/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	69.500	%	10/15/2020	ALS
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Miscellaneous Pesticides

Surrogate: d14-Terphenyl in water	NRSUB			ALS
Diazinon in water	<0.1000	ug/L	10/15/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	12.1	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	10/7/2020	ALS
1,1,1-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00100	mg/L	10/7/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
1,1-Dichloroethane	0.00486	mg/L	10/7/2020	ALS
1,1-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	10/7/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
1,2,4-Trimethylbenzene	0.0299	mg/L	10/7/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	10/7/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	10/7/2020	ALS
1,2-Dichlorobenzene	0.00188	mg/L	10/7/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	10/7/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
1,3,5-Trimethylbenzene	0.0080	mg/L	10/7/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
1,4-Dichlorobenzene	0.01040	mg/L	10/7/2020	ALS
Surrogate: 1,4-Difluorobenzene	91.9	%	10/7/2020	ALS
2,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
2-Chlorotoluene	<0.02	mg/L	10/7/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.02	mg/L	10/7/2020	ALS
Surrogate: 4-Bromofluorobenzene	76.4	%	10/7/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	10/7/2020	ALS
4-Isopropyltoluene	0.0172	mg/L	10/7/2020	ALS
Acetone	<0.050	mg/L	10/7/2020	ALS
Benzene	0.00678	mg/L	10/7/2020	ALS
Bromobenzene	<0.0010	mg/L	10/7/2020	ALS
Bromochloromethane	<0.0010	mg/L	10/7/2020	ALS
Bromodichloromethane	<0.00050	mg/L	10/7/2020	ALS
Bromoform	<0.0010	mg/L	10/7/2020	ALS
Bromomethane	<0.001	mg/L	10/7/2020	ALS
Carbon disulfide	<0.0050	mg/L	10/7/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	10/7/2020	ALS
Chlorobenzene	0.0030	mg/L	10/7/2020	ALS

VOC plus F1 by GCMS

Chloroethane	0.003	mg/L	10/7/2020	ALS
Chloroform	<0.00050	mg/L	10/7/2020	ALS
Chloromethane	<0.005	mg/L	10/7/2020	ALS
cis-1,2-Dichloroethene	<0.00100	mg/L	10/7/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Dibromochloromethane	<0.0005	mg/L	10/7/2020	ALS
Dibromomethane	<0.0010	mg/L	10/7/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	10/7/2020	ALS
Dichloromethane	<0.00500	mg/L	10/7/2020	ALS
Ethylbenzene	0.11900	mg/L	10/7/2020	ALS
F1	0.7000	mg/L	10/7/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	10/7/2020	ALS
Hexane	<0.0010	mg/L	10/7/2020	ALS
Isopropylbenzene	0.0020	mg/L	10/7/2020	ALS
M+P-Xylenes	0.4250	mg/L	10/7/2020	ALS
Methylethylketone [MEK]	<0.02	mg/L	10/7/2020	ALS
Methylisobutylketone [MIBK]	<0.02	mg/L	10/7/2020	ALS
Methyltertbutylether [MTBE]	0.0028	mg/L	10/7/2020	ALS
n-Butylbenzene	<0.0010	mg/L	10/7/2020	ALS
o-Xylene	0.0932	mg/L	10/7/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	10/7/2020	ALS
Styrene	<0.0010	mg/L	10/7/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	10/7/2020	ALS
Tetrachloroethene	<0.00050	mg/L	10/7/2020	ALS
Toluene	0.00986	mg/L	10/7/2020	ALS
trans-1,2-Dichloroethene	<0.0010	mg/L	10/7/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Trichloroethene	<0.00050	mg/L	10/7/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/7/2020	ALS
Vinyl Chloride	0.0010	mg/L	10/7/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/7/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.51800	mg/L	10/7/2020	ALS
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PCBs

Aroclor 1016	<0.2000	ug/L	10/7/2020	ALS
Aroclor 1221	<0.2000	ug/L	10/7/2020	ALS
Aroclor 1232	<0.2000	ug/L	10/7/2020	ALS
Aroclor 1242	0.7500	ug/L	10/7/2020	ALS
Aroclor 1248	<0.2000	ug/L	10/7/2020	ALS
Aroclor 1254	<0.2000	ug/L	10/7/2020	ALS

PCBs					
Aroclor 1260	<0.4000	ug/L	10/7/2020	ALS	
Aroclor 1262	<0.4000	ug/L	10/7/2020	ALS	
Aroclor 1268	<0.4000	ug/L	10/7/2020	ALS	
Total Polychlorinated Biphenyls	<0.8500	ug/L	10/7/2020	ALS	
Phenol (4AAP)					
Phenols (4AAP) in water	0.003	mg/L	10/7/2020	ALS	
Phenoxy Acid Herbicides					
2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	10/7/2020	ALS	
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	10/7/2020	ALS	
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	10/7/2020	ALS	
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0050	ug/L	10/7/2020	ALS	
Surrogate: 2,4-Dichlorophenylacetic Acid in water	55.3	%	10/7/2020	ALS	
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	0.0012	ug/L	10/7/2020	ALS	
Bromoxynil in water	<0.0050	ug/L	10/7/2020	ALS	
Clopyralid in water	<0.0050	ug/L	10/7/2020	ALS	
Dicamba in water	<0.0010	ug/L	10/7/2020	ALS	
Dinoseb in water	<0.0050	ug/L	10/7/2020	ALS	
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	10/7/2020	ALS	
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0050	ug/L	10/7/2020	ALS	
Mecoprop in water	0.1730	ug/L	10/7/2020	ALS	
Picloram in water	<0.0050	ug/L	10/7/2020	ALS	
Triclopyr in water	<0.0010	mg/L	10/7/2020	ALS	
Fecal coliforms, 1:10 dilution by QT97					
Fecal Coliforms, 1:10 dilution by QT97	<10	MPN/100mL	10/7/2020	ALS	
Total and E. coli, 1:10 dilution by QT97					
Escherichia Coliform by QT97	<10	MPN/100mL	10/7/2020	ALS	
Total Coliforms by QT97	2360	MPN/100mL	10/7/2020	ALS	
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, total	444 ± 6.8%	mg/L	9/17/2020	COW_ASB	
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	9/17/2020	COW_ASB	
Phosphorus, dissolved (0.45um)	1.77 ± 7.5%	mg/L	9/17/2020	COW_ASB	
Ammonia by colour					
Ammonia, total (as N) in water	613.00	mg/L	10/7/2020	ALS	
Organochlorine Pesticides					
alpha-Chlordane	<0.0400	ug/L	10/7/2020	ALS	
Aldrin	<0.0400	ug/L	10/7/2020	ALS	
alpha-Benzenehexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/7/2020	ALS	
beta-Benzenehexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/7/2020	ALS	
Surrogate: Decachlorobiphenyl	38.8	%	10/7/2020	ALS	

Organochlorine Pesticides

Dieldrin	<0.0400	ug/L	10/7/2020	ALS
Endosulfan I	<0.4500	ug/L	10/7/2020	ALS
Endosulfan II	<0.0500	ug/L	10/7/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/7/2020	ALS
Endrin	<0.0500	ug/L	10/7/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/7/2020	ALS
gamma-hexachlorocyclohexane	<0.1500	ug/L	10/7/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Heptachlor	<0.0400	ug/L	10/7/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/7/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/7/2020	ALS
Methoxychlor	<0.1200	ug/L	10/7/2020	ALS
Mirex	<0.1200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.1000	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Oxychlordane	<0.10	ug/L	10/7/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Surrogate: Tetrachloro-m-xylene	58.4	%	10/7/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/7/2020	ALS

Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	332.00	mg/L	10/7/2020	ALS
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Sample No. : 328537
Sample Description : LQ-25-MH24
Sample Date : September 8, 2020
Sample Received : September 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	6860 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, total to pH 4.5	6860 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1690 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	42.3 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	83 ± 15%	mg/L		9/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	1430 ± 6.1%	mg/L		9/14/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	14500 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.51 ± 0.07 units	units		9/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	6970 ± 6.5%	mg/L		9/12/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	7190 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	220.0	mg/L		9/14/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1490	mg/L		9/17/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1490 ± 15%	mg/L		9/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	414 ± 13%	mg/L		9/11/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	411.9 ± 13%	mg/L		9/11/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		9/13/2020	COW_ASB
Arsenic (As), total in water	0.005288 ± 8.1%	mg/L		9/13/2020	COW_ASB
Barium (Ba), total in water	0.32981 ± 11.8%	mg/L		9/13/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/13/2020	COW_ASB
Boron (B), total in water	7.1845 ± 24.2%	mg/L	9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/13/2020	COW_ASB
Calcium (Ca), total in water	172.47 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.05773 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.006309 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	4.4589 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	399.20 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.23590 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.18874 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	5.3677 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	513.86 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	1282.5 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.13650 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	431	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	2070	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	31.60 ± 4.4%	NTU	9/9/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<1.0000	ug/L	10/7/2020	ALS
Surrogate: p-Terphenyl d14	37.3000	%	10/7/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	400.00	mg/L	10/7/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/7/2020	ALS
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Carbons

Dissolved Inorganic Carbon	1390.0	mg/L	10/7/2020	ALS
Dissolved Organic Carbon	387.0	mg/L	10/7/2020	ALS
Total Dissolved Carbon by Calculation	1780.0	mg/L	10/7/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1570.000	mg/L	10/7/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	127.00	mg/L	10/7/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	0.13	mg/L	10/7/2020	ALS
Total Hydrocarbons (C6-C50)	0.64	mg/L	10/7/2020	ALS

CCME PHC F2-F4 in water

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	88.300	%	10/7/2020	ALS
Fraction 2 (C10-C16)	0.360	mg/L	10/7/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	10/7/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	10/7/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	0.00072	mg/L	10/7/2020	ALS
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Cyanide

Cyanide, Total in water	0.0114	mg/L	10/7/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/7/2020	ALS
Mercury (Hg) dissolved in water	<0.0000500	mg/L	10/7/2020	ALS
Mercury (Hg) total in water	<0.0000500	mg/L	10/7/2020	ALS

Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0520	mg/L	10/7/2020	ALS
Aluminum (Al), total in water	0.1320	mg/L	10/7/2020	ALS
Antimony (Sb), dissolved in water	0.001400	mg/L	10/7/2020	ALS
Antimony (Sb), total in water	0.0015	mg/L	10/7/2020	ALS
Arsenic (As), dissolved in water	0.01580	mg/L	10/7/2020	ALS
Arsenic (As), total in water	0.01640	mg/L	10/7/2020	ALS
Barium (Ba), dissolved in water	0.3280	mg/L	10/7/2020	ALS
Barium (Ba), total in water	0.3330	mg/L	10/7/2020	ALS
Beryllium (Be), dissolved in water	<0.00100	mg/L	10/7/2020	ALS
Beryllium (Be), total in water	<0.00100	mg/L	10/7/2020	ALS
Bismuth (Bi), dissolved in water	<0.000500	mg/L	10/7/2020	ALS
Bismuth (Bi), total in water	<0.000500	mg/L	10/7/2020	ALS
Boron (B), dissolved in water	6.6600	mg/L	10/7/2020	ALS
Boron (B), total in water	7.3900	mg/L	10/7/2020	ALS
Cadmium (Cd), dissolved in water	<0.000050	mg/L	10/7/2020	ALS
Cadmium (Cd), total in water	0.000067	mg/L	10/7/2020	ALS
Calcium (Ca), dissolved in water	172.0000	mg/L	10/7/2020	ALS
Calcium (Ca), total in water	178.0000	mg/L	10/7/2020	ALS
Cesium (Cs), dissolved in water	0.000410	mg/L	10/7/2020	ALS
Cesium (Cs), total in water	0.000370	mg/L	10/7/2020	ALS
Chromium (Cr), dissolved in water	0.04800	mg/L	10/7/2020	ALS
Chromium (Cr), total in water	0.05280	mg/L	10/7/2020	ALS
Cobalt (Co), dissolved in water	0.03140	mg/L	10/7/2020	ALS
Cobalt (Co), total in water	0.03330	mg/L	10/7/2020	ALS
Copper (Cu), dissolved in water	<0.00200	mg/L	10/7/2020	ALS
Copper (Cu), total in water	<0.00500	mg/L	10/7/2020	ALS
Hardness dissolved in water, calculated	2253.8	mg/L	10/7/2020	ALS
Hardness total in water, calculated	2322.3	mg/L	10/7/2020	ALS

Total Metals by ICP-MS

Iron (Fe), dissolved in water	1.3700	mg/L	10/7/2020	ALS
Iron (Fe), total in water	1.6200	mg/L	10/7/2020	ALS
Lead (Pb), dissolved in water	<0.000500	mg/L	10/7/2020	ALS
Lead (Pb), total in water	0.001850	mg/L	10/7/2020	ALS
Lithium (Li), dissolved in water	0.3140	mg/L	10/7/2020	ALS
Lithium (Li), total in water	0.3290	mg/L	10/7/2020	ALS
Magnesium (Mg), dissolved in water	443.0000	mg/L	10/7/2020	ALS
Magnesium (Mg), total in water	456.0000	mg/L	10/7/2020	ALS
Manganese (Mn), dissolved in water	0.2180	mg/L	10/7/2020	ALS
Manganese (Mn), total in water	0.2290	mg/L	10/7/2020	ALS
Molybdenum (Mo), dissolved in water	0.003730	mg/L	10/7/2020	ALS
Molybdenum (Mo), total in water	0.004260	mg/L	10/7/2020	ALS
Nickel (Ni), dissolved in water	0.16600	mg/L	10/7/2020	ALS
Nickel (Ni), total in water	0.17300	mg/L	10/7/2020	ALS
Phosphorus (P), dissolved in water	6.090	mg/L	10/7/2020	ALS
Phosphorus (P), total in water	6.420	mg/L	10/7/2020	ALS
Potassium (K), dissolved in water	539.0000	mg/L	10/7/2020	ALS
Potassium (K), total in water	525.0000	mg/L	10/7/2020	ALS
Rubidium (Rb), dissolved in water	0.1770	mg/L	10/7/2020	ALS
Rubidium (Rb), total in water	0.1780	mg/L	10/7/2020	ALS
Selenium (Se), dissolved in water	0.001120	mg/L	10/7/2020	ALS
Selenium (Se), total in water	0.001280	mg/L	10/7/2020	ALS
Silicon (Si), dissolved in water	22.7000	mg/L	10/7/2020	ALS
Silicon (Si), total in water	24.0000	mg/L	10/7/2020	ALS
Silver (Ag), dissolved in water	<0.000100	mg/L	10/7/2020	ALS
Silver (Ag), total in water	<0.000100	mg/L	10/7/2020	ALS
Sodium (Na), dissolved in water	1340.0000	mg/L	10/7/2020	ALS
Sodium (Na), total in water	1390.0000	mg/L	10/7/2020	ALS
Strontium (Sr), dissolved in water	5.0000	mg/L	10/7/2020	ALS
Strontium (Sr), total in water	5.1800	mg/L	10/7/2020	ALS
Sulfur (S), dissolved in water	69.6000	mg/L	10/7/2020	ALS
Sulfur (S), total in water	78.1000	mg/L	10/7/2020	ALS
Tellurium (Te), dissolved in water	<0.00200	mg/L	10/7/2020	ALS
Tellurium (Te), total in water	<0.00200	mg/L	10/7/2020	ALS
Thallium (Tl), dissolved in water	<0.000100	mg/L	10/7/2020	ALS
Thallium (Tl), total in water	<0.000100	mg/L	10/7/2020	ALS
Thorium (Th), dissolved in water	<0.00100	mg/L	10/7/2020	ALS
Thorium (Th), total in water	<0.00100	mg/L	10/7/2020	ALS
Tin (Sn), dissolved in water	0.01100	mg/L	10/7/2020	ALS
Tin (Sn), total in water	0.01530	mg/L	10/7/2020	ALS
Titanium (Ti), dissolved in water	0.02970	mg/L	10/7/2020	ALS

Total Metals by ICP-MS

Titanium (Ti), total in water	0.03850	mg/L	10/7/2020	ALS
Tungsten (W), dissolved in water	0.00590	mg/L	10/7/2020	ALS
Tungsten (W), total in water	0.00500	mg/L	10/7/2020	ALS
Uranium (U), dissolved in water	0.000790	mg/L	10/7/2020	ALS
Uranium (U), total in water	0.000910	mg/L	10/7/2020	ALS
Vanadium (V), dissolved in water	0.00900	mg/L	10/7/2020	ALS
Vanadium (V), total in water	0.00980	mg/L	10/7/2020	ALS
Zinc (Zn), dissolved in water	<0.0100	mg/L	10/7/2020	ALS
Zinc (Zn), total in water	0.0470	mg/L	10/7/2020	ALS
Zirconium (Zr), dissolved in water	0.04130	mg/L	10/7/2020	ALS
Zirconium (Zr), total in water	0.04210	mg/L	10/7/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	57.800	%	10/15/2020	ALS
Surrogate: d14-Terphenyl in water	NRSUB			ALS
Diazinon in water	<0.1000	ug/L	10/15/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	9.6	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	10/7/2020	ALS
1,1,1-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
1,1,2,2-Tetrachloroethane	0.00067	mg/L	10/7/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
1,1-Dichloroethane	0.00194	mg/L	10/7/2020	ALS
1,1-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	10/7/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
1,2,4-Trimethylbenzene	0.0101	mg/L	10/7/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	10/7/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	10/7/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	10/7/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	10/7/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
1,3,5-Trimethylbenzene	0.0023	mg/L	10/7/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
1,4-Dichlorobenzene	0.00390	mg/L	10/7/2020	ALS
Surrogate: 1,4-Difluorobenzene	93.7	%	10/7/2020	ALS
2,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
2-Chlorotoluene	<0.02	mg/L	10/7/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.02	mg/L	10/7/2020	ALS

VOC plus F1 by GCMS

Surrogate: 4-Bromofluorobenzene	78.5	%	10/7/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	10/7/2020	ALS
4-Isopropyltoluene	0.0094	mg/L	10/7/2020	ALS
Acetone	<0.050	mg/L	10/7/2020	ALS
Benzene	0.00350	mg/L	10/7/2020	ALS
Bromobenzene	<0.0010	mg/L	10/7/2020	ALS
Bromochloromethane	<0.0010	mg/L	10/7/2020	ALS
Bromodichloromethane	<0.00050	mg/L	10/7/2020	ALS
Bromoform	<0.0010	mg/L	10/7/2020	ALS
Bromomethane	<0.001	mg/L	10/7/2020	ALS
Carbon disulfide	<0.0050	mg/L	10/7/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	10/7/2020	ALS
Chlorobenzene	0.0021	mg/L	10/7/2020	ALS
Chloroethane	0.001	mg/L	10/7/2020	ALS
Chloroform	<0.00050	mg/L	10/7/2020	ALS
Chloromethane	<0.005	mg/L	10/7/2020	ALS
cis-1,2-Dichloroethene	<0.00100	mg/L	10/7/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Dibromochloromethane	<0.0005	mg/L	10/7/2020	ALS
Dibromomethane	<0.0010	mg/L	10/7/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	10/7/2020	ALS
Dichloromethane	<0.00500	mg/L	10/7/2020	ALS
Ethylbenzene	0.03080	mg/L	10/7/2020	ALS
F1	0.2800	mg/L	10/7/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	10/7/2020	ALS
Hexane	<0.0010	mg/L	10/7/2020	ALS
Isopropylbenzene	0.0010	mg/L	10/7/2020	ALS
M+P-Xylenes	0.0761	mg/L	10/7/2020	ALS
Methylethylketone [MEK]	0.04	mg/L	10/7/2020	ALS
Methylisobutylketone [MIBK]	<0.02	mg/L	10/7/2020	ALS
Methyltertbutylether [MTBE]	0.0025	mg/L	10/7/2020	ALS
n-Butylbenzene	<0.0010	mg/L	10/7/2020	ALS
o-Xylene	0.0358	mg/L	10/7/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	10/7/2020	ALS
Styrene	<0.0010	mg/L	10/7/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	10/7/2020	ALS
Tetrachloroethene	<0.00050	mg/L	10/7/2020	ALS
Toluene	0.00875	mg/L	10/7/2020	ALS
trans-1,2-Dichloroethene	<0.0010	mg/L	10/7/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Trichloroethene	<0.00050	mg/L	10/7/2020	ALS

VOC plus F1 by GCMS

Trichlorofluoromethane	<0.0010	mg/L	10/7/2020	ALS
Vinyl Chloride	0.0009	mg/L	10/7/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/7/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.11200	mg/L	10/7/2020	ALS
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PCBs

Aroclor 1016	<0.2000	ug/L	10/7/2020	ALS
Aroclor 1221	<0.2000	ug/L	10/7/2020	ALS
Aroclor 1232	<0.2000	ug/L	10/7/2020	ALS
Aroclor 1242	0.2700	ug/L	10/7/2020	ALS
Aroclor 1248	<0.2000	ug/L	10/7/2020	ALS
Aroclor 1254	<0.2000	ug/L	10/7/2020	ALS
Aroclor 1260	<0.4000	ug/L	10/7/2020	ALS
Aroclor 1262	<0.4000	ug/L	10/7/2020	ALS
Aroclor 1268	<0.4000	ug/L	10/7/2020	ALS
Total Polychlorinated Biphenyls	<0.8500	ug/L	10/7/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	10/7/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	10/7/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	10/7/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	10/7/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0050	ug/L	10/7/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	56.7	%	10/7/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	0.0014	ug/L	10/7/2020	ALS
Bromoxynil in water	<0.0050	ug/L	10/7/2020	ALS
Clopyralid in water	<0.0050	ug/L	10/7/2020	ALS
Dicamba in water	<0.0010	ug/L	10/7/2020	ALS
Dinoseb in water	<0.0050	ug/L	10/7/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	10/7/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0050	ug/L	10/7/2020	ALS
Mecoprop in water	0.1660	ug/L	10/7/2020	ALS
Picloram in water	<0.0050	ug/L	10/7/2020	ALS
Triclopyr in water	<0.0010	mg/L	10/7/2020	ALS

Fecal coliforms, 1:10 dilution by QT97

Fecal Coliforms, 1:10 dilution by QT97	<10	MPN/100mL	10/7/2020	ALS
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Total and E. coli, 1:10 dilution by QT97

Escherichia Coliform by QT97	<10	MPN/100mL	10/7/2020	ALS
Total Coliforms by QT97	2910	MPN/100mL	10/7/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	888 ± 6.8%	mg/L	9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	4.68 ± 7.5%	mg/L	9/17/2020	COW_ASB

Ammonia by colour

Ammonia, total (as N) in water	851.00	mg/L	10/7/2020	ALS
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Organochlorine Pesticides

alpha-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Aldrin	<0.0400	ug/L	10/7/2020	ALS
alpha-Benzenehexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/7/2020	ALS
beta-Benzenehexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/7/2020	ALS
Surrogate: Decachlorobiphenyl	32.7	%	10/7/2020	ALS
Dieldrin	<0.1000	ug/L	10/7/2020	ALS
Endosulfan I	<0.1000	ug/L	10/7/2020	ALS
Endosulfan II	<0.1500	ug/L	10/7/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/7/2020	ALS
Endrin	<0.0500	ug/L	10/7/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/7/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/7/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Heptachlor	<0.0400	ug/L	10/7/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/7/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/7/2020	ALS
Methoxychlor	<0.1200	ug/L	10/7/2020	ALS
Mirex	<0.1200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.0200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Oxychlordane	<0.04	ug/L	10/7/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Surrogate: Tetrachloro-m-xylene	52.8	%	10/7/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/7/2020	ALS

CCME PAHs in mg/L

1-Methyl Naphthalene	0.001110	mg/L	10/7/2020	ALS
2-Methyl Naphthalene	0.001710	mg/L	10/7/2020	ALS
Acenaphthene	0.001240	mg/L	10/7/2020	ALS

CCME PAHs in mg/L

Acenaphthylene	<0.000022	mg/L	10/7/2020	ALS
Acridine	0.000814	mg/L	10/7/2020	ALS
Anthracene	<0.000210	mg/L	10/7/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	10/7/2020	ALS
Benzo(a)anthracene	0.000047	mg/L	10/7/2020	ALS
Benzo(a)pyrene	0.0000147	mg/L	10/7/2020	ALS
Benzo(b&j)fluoranthene	0.000021	mg/L	10/7/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	10/7/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	10/7/2020	ALS
Chrysene	<0.000032	mg/L	10/7/2020	ALS
Surrogate: d10-Acenaphthene	99.0	%	10/7/2020	ALS
Surrogate: d10-Phenanthrene	110.4	%	10/7/2020	ALS
Surrogate: d12-Chrysene	81.8	%	10/7/2020	ALS
Surrogate: d8-Naphthalene	147.3	%	10/7/2020	ALS
Surrogate: d9-Acridine (SS)	126.9	%	10/7/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	10/7/2020	ALS
Fluoranthene	0.000238	mg/L	10/7/2020	ALS
Fluorene	0.001040	mg/L	10/7/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	10/7/2020	ALS
Naphthalene	0.016600	mg/L	10/7/2020	ALS
Phenanthrene	0.001320	mg/L	10/7/2020	ALS
Pyrene	<0.000200	mg/L	10/7/2020	ALS
Quinoline	<0.000036	mg/L	10/7/2020	ALS

Alkalinity, Carbonate

Alkalinity, carbonate	13.40	mg/L	10/7/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	351.00	mg/L	10/7/2020	ALS
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Sample No. : 328538
Sample Description : LQ-25-MH27
Sample Date : September 8, 2020
Sample Received : September 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	276 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, total to pH 4.5	276 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	23.4 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	42.0 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	7 ± 15%	mg/L		9/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	76.0 ± 6.1%	mg/L		9/14/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	573 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.85 ± 0.07 units	units		9/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	354 ± 6.5%	mg/L		9/12/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	406 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	52.0	mg/L		9/14/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	4.85	mg/L		10/15/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	4.9 ± 15%	mg/L		10/15/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	18.7 ± 13%	mg/L		9/11/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	32.3 ± 13%	mg/L		9/11/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000773 ± 9.2%	mg/L		9/13/2020	COW_ASB
Arsenic (As), total in water	0.001660 ± 8.1%	mg/L		9/13/2020	COW_ASB
Barium (Ba), total in water	0.081326 ± 11.8%	mg/L		9/13/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/13/2020	COW_ASB
Boron (B), total in water	0.06090 ± 24.2%	mg/L	9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/13/2020	COW_ASB
Calcium (Ca), total in water	50.514 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.00895 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.008239 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	1.0338 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	0.000713 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	25.175 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.14314 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.004173 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	0.6895 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	20.829 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.00446 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	14.004 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.02683 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	126	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	230	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	6.09 ± 4.4%	NTU	9/9/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<0.5000	ug/L	10/7/2020	ALS
Surrogate: p-Terphenyl d14	75.9000	%	10/7/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	343.00	mg/L	10/7/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/7/2020	ALS
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Carbons

Dissolved Inorganic Carbon	55.5	mg/L	10/7/2020	ALS
Dissolved Organic Carbon	15.2	mg/L	10/7/2020	ALS
Total Dissolved Carbon by Calculation	70.7	mg/L	10/7/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	23.200	mg/L	10/7/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	18.40	mg/L	10/7/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/7/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/7/2020	ALS

CCME PHC F2-F4 in water

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	93.200	%	10/7/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	10/7/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	10/7/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	10/7/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/7/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	10/7/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/7/2020	ALS
Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/7/2020	ALS
Mercury (Hg) total in water	<0.0000050	mg/L	10/7/2020	ALS

Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0086	mg/L	10/7/2020	ALS
Aluminum (Al), total in water	0.0180	mg/L	10/7/2020	ALS
Antimony (Sb), dissolved in water	0.000110	mg/L	10/7/2020	ALS
Antimony (Sb), total in water	0.0002	mg/L	10/7/2020	ALS
Arsenic (As), dissolved in water	0.00157	mg/L	10/7/2020	ALS
Arsenic (As), total in water	0.00244	mg/L	10/7/2020	ALS
Barium (Ba), dissolved in water	0.0860	mg/L	10/7/2020	ALS
Barium (Ba), total in water	0.0809	mg/L	10/7/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/7/2020	ALS
Beryllium (Be), total in water	<0.00010	mg/L	10/7/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/7/2020	ALS
Bismuth (Bi), total in water	<0.000050	mg/L	10/7/2020	ALS
Boron (B), dissolved in water	0.0760	mg/L	10/7/2020	ALS
Boron (B), total in water	0.0700	mg/L	10/7/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	10/7/2020	ALS
Cadmium (Cd), total in water	0.000013	mg/L	10/7/2020	ALS
Calcium (Ca), dissolved in water	55.8000	mg/L	10/7/2020	ALS
Calcium (Ca), total in water	53.4000	mg/L	10/7/2020	ALS
Cesium (Cs), dissolved in water	0.000012	mg/L	10/7/2020	ALS
Cesium (Cs), total in water	0.000022	mg/L	10/7/2020	ALS
Chromium (Cr), dissolved in water	0.00037	mg/L	10/7/2020	ALS
Chromium (Cr), total in water	0.00030	mg/L	10/7/2020	ALS
Cobalt (Co), dissolved in water	0.00030	mg/L	10/7/2020	ALS
Cobalt (Co), total in water	0.00090	mg/L	10/7/2020	ALS
Copper (Cu), dissolved in water	0.00040	mg/L	10/7/2020	ALS
Copper (Cu), total in water	0.00169	mg/L	10/7/2020	ALS
Hardness dissolved in water, calculated	265.8	mg/L	10/7/2020	ALS
Hardness total in water, calculated	243.3	mg/L	10/7/2020	ALS

Total Metals by ICP-MS

Iron (Fe), dissolved in water	0.3000	mg/L	10/7/2020	ALS
Iron (Fe), total in water	0.7850	mg/L	10/7/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/7/2020	ALS
Lead (Pb), total in water	0.000247	mg/L	10/7/2020	ALS
Lithium (Li), dissolved in water	0.0374	mg/L	10/7/2020	ALS
Lithium (Li), total in water	0.0361	mg/L	10/7/2020	ALS
Magnesium (Mg), dissolved in water	30.7000	mg/L	10/7/2020	ALS
Magnesium (Mg), total in water	26.7000	mg/L	10/7/2020	ALS
Manganese (Mn), dissolved in water	0.0954	mg/L	10/7/2020	ALS
Manganese (Mn), total in water	0.1420	mg/L	10/7/2020	ALS
Molybdenum (Mo), dissolved in water	0.000267	mg/L	10/7/2020	ALS
Molybdenum (Mo), total in water	0.001110	mg/L	10/7/2020	ALS
Nickel (Ni), dissolved in water	0.00230	mg/L	10/7/2020	ALS
Nickel (Ni), total in water	0.00341	mg/L	10/7/2020	ALS
Phosphorus (P), dissolved in water	0.706	mg/L	10/7/2020	ALS
Phosphorus (P), total in water	0.759	mg/L	10/7/2020	ALS
Potassium (K), dissolved in water	21.8000	mg/L	10/7/2020	ALS
Potassium (K), total in water	20.5000	mg/L	10/7/2020	ALS
Rubidium (Rb), dissolved in water	0.0039	mg/L	10/7/2020	ALS
Rubidium (Rb), total in water	0.0053	mg/L	10/7/2020	ALS
Selenium (Se), dissolved in water	0.000425	mg/L	10/7/2020	ALS
Selenium (Se), total in water	0.000203	mg/L	10/7/2020	ALS
Silicon (Si), dissolved in water	5.1500	mg/L	10/7/2020	ALS
Silicon (Si), total in water	3.7700	mg/L	10/7/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	10/7/2020	ALS
Silver (Ag), total in water	<0.000010	mg/L	10/7/2020	ALS
Sodium (Na), dissolved in water	15.8000	mg/L	10/7/2020	ALS
Sodium (Na), total in water	14.0000	mg/L	10/7/2020	ALS
Strontium (Sr), dissolved in water	0.2820	mg/L	10/7/2020	ALS
Strontium (Sr), total in water	0.2610	mg/L	10/7/2020	ALS
Sulfur (S), dissolved in water	16.6000	mg/L	10/7/2020	ALS
Sulfur (S), total in water	6.5200	mg/L	10/7/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/7/2020	ALS
Tellurium (Te), total in water	<0.00020	mg/L	10/7/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/7/2020	ALS
Thallium (Tl), total in water	<0.000010	mg/L	10/7/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/7/2020	ALS
Thorium (Th), total in water	<0.00010	mg/L	10/7/2020	ALS
Tin (Sn), dissolved in water	0.00014	mg/L	10/7/2020	ALS
Tin (Sn), total in water	0.00016	mg/L	10/7/2020	ALS
Titanium (Ti), dissolved in water	0.00047	mg/L	10/7/2020	ALS

Total Metals by ICP-MS

Titanium (Ti), total in water	0.00072	mg/L	10/7/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/7/2020	ALS
Tungsten (W), total in water	<0.00010	mg/L	10/7/2020	ALS
Uranium (U), dissolved in water	0.001270	mg/L	10/7/2020	ALS
Uranium (U), total in water	0.001680	mg/L	10/7/2020	ALS
Vanadium (V), dissolved in water	0.00113	mg/L	10/7/2020	ALS
Vanadium (V), total in water	0.00129	mg/L	10/7/2020	ALS
Zinc (Zn), dissolved in water	0.0024	mg/L	10/7/2020	ALS
Zinc (Zn), total in water	0.0053	mg/L	10/7/2020	ALS
Zirconium (Zr), dissolved in water	0.00054	mg/L	10/7/2020	ALS
Zirconium (Zr), total in water	0.00041	mg/L	10/7/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	82.300	%	10/7/2020	ALS
Surrogate: d14-Terphenyl in water	75.700	%	10/7/2020	ALS
Diazinon in water	<0.1000	ug/L	10/7/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	5.1	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	10/7/2020	ALS
1,1,1-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00050	mg/L	10/7/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
1,1-Dichloroethane	<0.00050	mg/L	10/7/2020	ALS
1,1-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	10/7/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
1,2,4-Trimethylbenzene	<0.0010	mg/L	10/7/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	10/7/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	10/7/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	10/7/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	10/7/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
1,3,5-Trimethylbenzene	<0.0010	mg/L	10/7/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	10/7/2020	ALS
Surrogate: 1,4-Difluorobenzene	93.0	%	10/7/2020	ALS
2,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
2-Chlorotoluene	<0.02	mg/L	10/7/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.02	mg/L	10/7/2020	ALS

VOC plus F1 by GCMS

Surrogate: 4-Bromofluorobenzene	77.7	%	10/7/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	10/7/2020	ALS
4-Isopropyltoluene	<0.0010	mg/L	10/7/2020	ALS
Acetone	<0.050	mg/L	10/7/2020	ALS
Benzene	<0.00050	mg/L	10/7/2020	ALS
Bromobenzene	<0.0010	mg/L	10/7/2020	ALS
Bromochloromethane	<0.0010	mg/L	10/7/2020	ALS
Bromodichloromethane	<0.00050	mg/L	10/7/2020	ALS
Bromoform	<0.0010	mg/L	10/7/2020	ALS
Bromomethane	<0.001	mg/L	10/7/2020	ALS
Carbon disulfide	<0.0050	mg/L	10/7/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	10/7/2020	ALS
Chlorobenzene	<0.0010	mg/L	10/7/2020	ALS
Chloroethane	<0.001	mg/L	10/7/2020	ALS
Chloroform	<0.00050	mg/L	10/7/2020	ALS
Chloromethane	<0.005	mg/L	10/7/2020	ALS
cis-1,2-Dichloroethene	<0.00100	mg/L	10/7/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Dibromochloromethane	<0.0005	mg/L	10/7/2020	ALS
Dibromomethane	<0.0010	mg/L	10/7/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	10/7/2020	ALS
Dichloromethane	<0.00500	mg/L	10/7/2020	ALS
Ethylbenzene	<0.00050	mg/L	10/7/2020	ALS
F1	<0.1000	mg/L	10/7/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	10/7/2020	ALS
Hexane	<0.0010	mg/L	10/7/2020	ALS
Isopropylbenzene	<0.0010	mg/L	10/7/2020	ALS
M+P-Xylenes	<0.0004	mg/L	10/7/2020	ALS
Methylethylketone [MEK]	<0.02	mg/L	10/7/2020	ALS
Methylisobutylketone [MIBK]	<0.02	mg/L	10/7/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	10/7/2020	ALS
n-Butylbenzene	<0.0010	mg/L	10/7/2020	ALS
o-Xylene	0.0007	mg/L	10/7/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	10/7/2020	ALS
Styrene	<0.0010	mg/L	10/7/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	10/7/2020	ALS
Tetrachloroethene	<0.00050	mg/L	10/7/2020	ALS
Toluene	<0.00050	mg/L	10/7/2020	ALS
trans-1,2-Dichloroethene	<0.0010	mg/L	10/7/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Trichloroethene	<0.00050	mg/L	10/7/2020	ALS

VOC plus F1 by GCMS

Trichlorofluoromethane	<0.0010	mg/L	10/7/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/7/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/7/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.00065	mg/L	10/7/2020	ALS
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PCBs

Aroclor 1016	<0.0200	ug/L	10/7/2020	ALS
Aroclor 1221	<0.0200	ug/L	10/7/2020	ALS
Aroclor 1232	<0.0200	ug/L	10/7/2020	ALS
Aroclor 1242	<0.0200	ug/L	10/7/2020	ALS
Aroclor 1248	<0.0200	ug/L	10/7/2020	ALS
Aroclor 1254	<0.0200	ug/L	10/7/2020	ALS
Aroclor 1260	<0.0200	ug/L	10/7/2020	ALS
Aroclor 1262	<0.0200	ug/L	10/7/2020	ALS
Aroclor 1268	<0.0200	ug/L	10/7/2020	ALS
Total Polychlorinated Biphenyls	<0.0600	ug/L	10/7/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/7/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	10/7/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	10/7/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	10/7/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	10/7/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	71.2	%	10/7/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	10/7/2020	ALS
Bromoxynil in water	<0.0001	ug/L	10/7/2020	ALS
Clopyralid in water	<0.0001	ug/L	10/7/2020	ALS
Dicamba in water	<0.0001	ug/L	10/7/2020	ALS
Dinoseb in water	<0.0001	ug/L	10/7/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	10/7/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	10/7/2020	ALS
Mecoprop in water	<0.0001	ug/L	10/7/2020	ALS
Picloram in water	<0.0001	ug/L	10/7/2020	ALS
Triclopyr in water	<0.0001	mg/L	10/7/2020	ALS

Fecal coliforms, 1:10 dilution by QT97

Fecal Coliforms, 1:10 dilution by QT97	4350	MPN/100mL	10/7/2020	ALS
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Total and E. coli, 1:10 dilution by QT97

Escherichia Coliform by QT97	6490	MPN/100mL	10/7/2020	ALS
Total Coliforms by QT97	>24200	MPN/100mL	10/7/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	6.22 ± 6.8%	mg/L	9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.084 ± 7.8%	mg/L	9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.562 ± 7.5%	mg/L	9/17/2020	COW_ASB

Ammonia by colour

Ammonia, total (as N) in water	12.80	mg/L	10/7/2020	ALS
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Organochlorine Pesticides

alpha-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Aldrin	<0.0400	ug/L	10/7/2020	ALS
alpha-Benzenhexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/7/2020	ALS
beta-Benzenhexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/7/2020	ALS
Surrogate: Decachlorobiphenyl	92.5	%	10/7/2020	ALS
Dieldrin	<0.0400	ug/L	10/7/2020	ALS
Endosulfan I	<0.0350	ug/L	10/7/2020	ALS
Endosulfan II	<0.0350	ug/L	10/7/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/7/2020	ALS
Endrin	<0.0500	ug/L	10/7/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/7/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/7/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Heptachlor	<0.0400	ug/L	10/7/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/7/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/7/2020	ALS
Methoxychlor	<0.0400	ug/L	10/7/2020	ALS
Mirex	<0.0400	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.0200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Oxychlordane	<0.04	ug/L	10/7/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Surrogate: Tetrachloro-m-xylene	86.9	%	10/7/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/7/2020	ALS

CCME PAHs in mg/L

1-Methyl Naphthalene	0.000262	mg/L	10/7/2020	ALS
2-Methyl Naphthalene	0.000106	mg/L	10/7/2020	ALS
Acenaphthene	0.000733	mg/L	10/7/2020	ALS

CCME PAHs in mg/L

Acenaphthylene	<0.000020	mg/L	10/7/2020	ALS
Acridine	0.000089	mg/L	10/7/2020	ALS
Anthracene	0.000345	mg/L	10/7/2020	ALS
B(a)P Total Potency Equivalent	0.000123	mg/L	10/7/2020	ALS
Benzo(a)anthracene	0.000152	mg/L	10/7/2020	ALS
Benzo(a)pyrene	0.0000724	mg/L	10/7/2020	ALS
Benzo(b&j)fluoranthene	0.000192	mg/L	10/7/2020	ALS
Benzo(g,h,i)perylene	0.000025	mg/L	10/7/2020	ALS
Benzo(k)fluoranthene	0.000052	mg/L	10/7/2020	ALS
Chrysene	0.000107	mg/L	10/7/2020	ALS
Surrogate: d10-Acenaphthene	98.6	%	10/7/2020	ALS
Surrogate: d10-Phenanthrene	111.4	%	10/7/2020	ALS
Surrogate: d12-Chrysene	101.3	%	10/7/2020	ALS
Surrogate: d8-Naphthalene	94.3	%	10/7/2020	ALS
Surrogate: d9-Acridine (SS)	119.4	%	10/7/2020	ALS
Dibenzo(a,h)anthracene	0.0000059	mg/L	10/7/2020	ALS
Fluoranthene	0.001990	mg/L	10/7/2020	ALS
Fluorene	0.001020	mg/L	10/7/2020	ALS
Indeno(1,2,3-cd)pyrene	0.000037	mg/L	10/7/2020	ALS
Naphthalene	0.001340	mg/L	10/7/2020	ALS
Phenanthrene	0.003430	mg/L	10/7/2020	ALS
Pyrene	0.001340	mg/L	10/7/2020	ALS
Quinoline	<0.000020	mg/L	10/7/2020	ALS

Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/7/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	281.00	mg/L	10/7/2020	ALS
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Sample No. : 328539
Sample Description : LQ-25-MH31
Sample Date : September 8, 2020
Sample Received : September 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	6820 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, total to pH 4.5	6820 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1800 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2.5 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	175 ± 15%	mg/L		9/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	1930 ± 6.1%	mg/L		9/14/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	15300 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.59 ± 0.07 units	units		9/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	7760 ± 6.5%	mg/L		9/12/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	8000 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	238.0	mg/L		9/14/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1170	mg/L		10/1/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1170 ± 15%	mg/L		9/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	607 ± 13%	mg/L		9/11/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	574.4 ± 13%	mg/L		9/11/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		9/13/2020	COW_ASB
Arsenic (As), total in water	0.005770 ± 8.1%	mg/L		9/13/2020	COW_ASB
Barium (Ba), total in water	0.49164 ± 11.8%	mg/L		9/13/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/13/2020	COW_ASB
Boron (B), total in water	9.3219 ± 24.2%	mg/L	9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/13/2020	COW_ASB
Calcium (Ca), total in water	157.41 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.11666 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.016036 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	7.8276 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	434.82 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.19270 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.28653 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	3.8068 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	528.30 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.02102 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	1542.7 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.06589 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	393	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	2180	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	47.40 ± 4.4%	NTU	9/9/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<1.0000	ug/L	10/7/2020	ALS
Surrogate: p-Terphenyl d14	36.3000	%	10/7/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	435.00	mg/L	10/7/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/7/2020	ALS
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Carbons

Dissolved Inorganic Carbon	1390.0	mg/L	10/7/2020	ALS
Dissolved Organic Carbon	476.0	mg/L	10/7/2020	ALS
Total Dissolved Carbon by Calculation	1870.0	mg/L	10/7/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1990.000	mg/L	10/7/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	47.00	mg/L	10/7/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/7/2020	ALS
Total Hydrocarbons (C6-C50)	1.09	mg/L	10/7/2020	ALS

CCME PHC F2-F4 in water

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	97.900	%	10/7/2020	ALS
Fraction 2 (C10-C16)	0.450	mg/L	10/7/2020	ALS
Fraction 3 (C16-C34)	0.270	mg/L	10/7/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	10/7/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/7/2020	ALS
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Cyanide

Cyanide, Total in water	0.0160	mg/L	10/7/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/7/2020	ALS
Mercury (Hg) dissolved in water	<0.0000500	mg/L	10/7/2020	ALS
Mercury (Hg) total in water	<0.0000500	mg/L	10/7/2020	ALS

Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.1420	mg/L	10/7/2020	ALS
Aluminum (Al), total in water	0.2070	mg/L	10/7/2020	ALS
Antimony (Sb), dissolved in water	0.002700	mg/L	10/7/2020	ALS
Antimony (Sb), total in water	0.0029	mg/L	10/7/2020	ALS
Arsenic (As), dissolved in water	0.01680	mg/L	10/7/2020	ALS
Arsenic (As), total in water	0.01830	mg/L	10/7/2020	ALS
Barium (Ba), dissolved in water	0.4970	mg/L	10/7/2020	ALS
Barium (Ba), total in water	0.5040	mg/L	10/7/2020	ALS
Beryllium (Be), dissolved in water	<0.00100	mg/L	10/7/2020	ALS
Beryllium (Be), total in water	<0.00100	mg/L	10/7/2020	ALS
Bismuth (Bi), dissolved in water	<0.000500	mg/L	10/7/2020	ALS
Bismuth (Bi), total in water	<0.000500	mg/L	10/7/2020	ALS
Boron (B), dissolved in water	9.5000	mg/L	10/7/2020	ALS
Boron (B), total in water	9.6000	mg/L	10/7/2020	ALS
Cadmium (Cd), dissolved in water	<0.000050	mg/L	10/7/2020	ALS
Cadmium (Cd), total in water	0.000185	mg/L	10/7/2020	ALS
Calcium (Ca), dissolved in water	159.0000	mg/L	10/7/2020	ALS
Calcium (Ca), total in water	164.0000	mg/L	10/7/2020	ALS
Cesium (Cs), dissolved in water	0.000510	mg/L	10/7/2020	ALS
Cesium (Cs), total in water	0.000420	mg/L	10/7/2020	ALS
Chromium (Cr), dissolved in water	0.11800	mg/L	10/7/2020	ALS
Chromium (Cr), total in water	0.11200	mg/L	10/7/2020	ALS
Cobalt (Co), dissolved in water	0.03840	mg/L	10/7/2020	ALS
Cobalt (Co), total in water	0.04200	mg/L	10/7/2020	ALS
Copper (Cu), dissolved in water	<0.00200	mg/L	10/7/2020	ALS
Copper (Cu), total in water	0.01170	mg/L	10/7/2020	ALS
Hardness dissolved in water, calculated	2431.3	mg/L	10/7/2020	ALS
Hardness total in water, calculated	2464.4	mg/L	10/7/2020	ALS

Total Metals by ICP-MS

Iron (Fe), dissolved in water	3.6600	mg/L	10/7/2020	ALS
Iron (Fe), total in water	6.3400	mg/L	10/7/2020	ALS
Lead (Pb), dissolved in water	0.000940	mg/L	10/7/2020	ALS
Lead (Pb), total in water	0.007100	mg/L	10/7/2020	ALS
Lithium (Li), dissolved in water	0.3940	mg/L	10/7/2020	ALS
Lithium (Li), total in water	0.3920	mg/L	10/7/2020	ALS
Magnesium (Mg), dissolved in water	494.0000	mg/L	10/7/2020	ALS
Magnesium (Mg), total in water	499.0000	mg/L	10/7/2020	ALS
Manganese (Mn), dissolved in water	0.1720	mg/L	10/7/2020	ALS
Manganese (Mn), total in water	0.1890	mg/L	10/7/2020	ALS
Molybdenum (Mo), dissolved in water	0.005790	mg/L	10/7/2020	ALS
Molybdenum (Mo), total in water	0.007030	mg/L	10/7/2020	ALS
Nickel (Ni), dissolved in water	0.26400	mg/L	10/7/2020	ALS
Nickel (Ni), total in water	0.27200	mg/L	10/7/2020	ALS
Phosphorus (P), dissolved in water	4.470	mg/L	10/7/2020	ALS
Phosphorus (P), total in water	4.120	mg/L	10/7/2020	ALS
Potassium (K), dissolved in water	567.0000	mg/L	10/7/2020	ALS
Potassium (K), total in water	558.0000	mg/L	10/7/2020	ALS
Rubidium (Rb), dissolved in water	0.1930	mg/L	10/7/2020	ALS
Rubidium (Rb), total in water	0.1880	mg/L	10/7/2020	ALS
Selenium (Se), dissolved in water	0.001510	mg/L	10/7/2020	ALS
Selenium (Se), total in water	0.001530	mg/L	10/7/2020	ALS
Silicon (Si), dissolved in water	20.7000	mg/L	10/7/2020	ALS
Silicon (Si), total in water	21.8000	mg/L	10/7/2020	ALS
Silver (Ag), dissolved in water	0.000130	mg/L	10/7/2020	ALS
Silver (Ag), total in water	0.000140	mg/L	10/7/2020	ALS
Sodium (Na), dissolved in water	1600.0000	mg/L	10/7/2020	ALS
Sodium (Na), total in water	1600.0000	mg/L	10/7/2020	ALS
Strontium (Sr), dissolved in water	4.4100	mg/L	10/7/2020	ALS
Strontium (Sr), total in water	4.4200	mg/L	10/7/2020	ALS
Sulfur (S), dissolved in water	36.5000	mg/L	10/7/2020	ALS
Sulfur (S), total in water	49.4000	mg/L	10/7/2020	ALS
Tellurium (Te), dissolved in water	<0.00200	mg/L	10/7/2020	ALS
Tellurium (Te), total in water	<0.00200	mg/L	10/7/2020	ALS
Thallium (Tl), dissolved in water	<0.000100	mg/L	10/7/2020	ALS
Thallium (Tl), total in water	<0.000100	mg/L	10/7/2020	ALS
Thorium (Th), dissolved in water	<0.00100	mg/L	10/7/2020	ALS
Thorium (Th), total in water	<0.00100	mg/L	10/7/2020	ALS
Tin (Sn), dissolved in water	0.03030	mg/L	10/7/2020	ALS
Tin (Sn), total in water	0.03730	mg/L	10/7/2020	ALS
Titanium (Ti), dissolved in water	0.06250	mg/L	10/7/2020	ALS

Total Metals by ICP-MS

Titanium (Ti), total in water	0.06390	mg/L	10/7/2020	ALS
Tungsten (W), dissolved in water	0.00638	mg/L	10/7/2020	ALS
Tungsten (W), total in water	0.00570	mg/L	10/7/2020	ALS
Uranium (U), dissolved in water	0.000780	mg/L	10/7/2020	ALS
Uranium (U), total in water	0.001840	mg/L	10/7/2020	ALS
Vanadium (V), dissolved in water	0.01600	mg/L	10/7/2020	ALS
Vanadium (V), total in water	0.01700	mg/L	10/7/2020	ALS
Zinc (Zn), dissolved in water	0.0110	mg/L	10/7/2020	ALS
Zinc (Zn), total in water	0.0480	mg/L	10/7/2020	ALS
Zirconium (Zr), dissolved in water	0.06690	mg/L	10/7/2020	ALS
Zirconium (Zr), total in water	0.05960	mg/L	10/7/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	68.500	%	10/15/2020	ALS
Surrogate: d14-Terphenyl in water	NRSUB			ALS
Diazinon in water	<0.1000	ug/L	10/15/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	9.0	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	10/7/2020	ALS
1,1,1-Trichloroethane	0.00105	mg/L	10/7/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00200	mg/L	10/7/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
1,1-Dichloroethane	0.02200	mg/L	10/7/2020	ALS
1,1-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	10/7/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
1,2,4-Trimethylbenzene	0.0212	mg/L	10/7/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	10/7/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	10/7/2020	ALS
1,2-Dichlorobenzene	0.00052	mg/L	10/7/2020	ALS
1,2-Dichloroethane	0.00074	mg/L	10/7/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
1,3,5-Trimethylbenzene	0.0050	mg/L	10/7/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
1,4-Dichlorobenzene	0.00690	mg/L	10/7/2020	ALS
Surrogate: 1,4-Difluorobenzene	93.0	%	10/7/2020	ALS
2,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
2-Chlorotoluene	<0.02	mg/L	10/7/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.02	mg/L	10/7/2020	ALS

VOC plus F1 by GCMS

Surrogate: 4-Bromofluorobenzene	82.7	%	10/7/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	10/7/2020	ALS
4-Isopropyltoluene	0.0103	mg/L	10/7/2020	ALS
Acetone	0.697	mg/L	10/7/2020	ALS
Benzene	0.00788	mg/L	10/7/2020	ALS
Bromobenzene	<0.0010	mg/L	10/7/2020	ALS
Bromochloromethane	<0.0010	mg/L	10/7/2020	ALS
Bromodichloromethane	<0.00050	mg/L	10/7/2020	ALS
Bromoform	<0.0010	mg/L	10/7/2020	ALS
Bromomethane	<0.001	mg/L	10/7/2020	ALS
Carbon disulfide	<0.0050	mg/L	10/7/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	10/7/2020	ALS
Chlorobenzene	0.0078	mg/L	10/7/2020	ALS
Chloroethane	0.036	mg/L	10/7/2020	ALS
Chloroform	<0.00050	mg/L	10/7/2020	ALS
Chloromethane	<0.005	mg/L	10/7/2020	ALS
cis-1,2-Dichloroethene	<0.00100	mg/L	10/7/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Dibromochloromethane	<0.0005	mg/L	10/7/2020	ALS
Dibromomethane	<0.0010	mg/L	10/7/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	10/7/2020	ALS
Dichloromethane	<0.00500	mg/L	10/7/2020	ALS
Ethylbenzene	0.03140	mg/L	10/7/2020	ALS
F1	0.3700	mg/L	10/7/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	10/7/2020	ALS
Hexane	<0.0010	mg/L	10/7/2020	ALS
Isopropylbenzene	0.0012	mg/L	10/7/2020	ALS
M+P-Xylenes	0.2000	mg/L	10/7/2020	ALS
Methylethylketone [MEK]	0.70	mg/L	10/7/2020	ALS
Methylisobutylketone [MIBK]	0.03	mg/L	10/7/2020	ALS
Methyltertbutylether [MTBE]	0.0016	mg/L	10/7/2020	ALS
n-Butylbenzene	<0.0010	mg/L	10/7/2020	ALS
o-Xylene	0.0617	mg/L	10/7/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	10/7/2020	ALS
Styrene	<0.0010	mg/L	10/7/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	10/7/2020	ALS
Tetrachloroethene	<0.00050	mg/L	10/7/2020	ALS
Toluene	0.01160	mg/L	10/7/2020	ALS
trans-1,2-Dichloroethene	<0.0010	mg/L	10/7/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Trichloroethene	<0.00050	mg/L	10/7/2020	ALS

VOC plus F1 by GCMS

Trichlorofluoromethane	<0.0010	mg/L	10/7/2020	ALS
Vinyl Chloride	0.0008	mg/L	10/7/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/7/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.26200	mg/L	10/7/2020	ALS
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PCBs

Aroclor 1016	<0.3600	ug/L	10/7/2020	ALS
Aroclor 1221	<0.3600	ug/L	10/7/2020	ALS
Aroclor 1232	<0.3600	ug/L	10/7/2020	ALS
Aroclor 1242	<0.3600	ug/L	10/7/2020	ALS
Aroclor 1248	<0.3600	ug/L	10/7/2020	ALS
Aroclor 1254	<0.0600	ug/L	10/7/2020	ALS
Aroclor 1260	<0.0600	ug/L	10/7/2020	ALS
Aroclor 1262	<0.0600	ug/L	10/7/2020	ALS
Aroclor 1268	<0.0600	ug/L	10/7/2020	ALS
Total Polychlorinated Biphenyls	<0.8200	ug/L	10/7/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	0.005	mg/L	10/7/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	10/7/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	10/7/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	10/7/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0050	ug/L	10/7/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	52.1	%	10/7/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	0.0021	ug/L	10/7/2020	ALS
Bromoxynil in water	<0.0050	ug/L	10/7/2020	ALS
Clopyralid in water	<0.0050	ug/L	10/7/2020	ALS
Dicamba in water	<0.0010	ug/L	10/7/2020	ALS
Dinoseb in water	<0.0050	ug/L	10/7/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	10/7/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0050	ug/L	10/7/2020	ALS
Mecoprop in water	0.2050	ug/L	10/7/2020	ALS
Picloram in water	<0.0070	ug/L	10/7/2020	ALS
Triclopyr in water	<0.0010	mg/L	10/7/2020	ALS

Fecal coliforms, 1:10 dilution by QT97

Fecal Coliforms, 1:10 dilution by QT97	30	MPN/100mL	10/7/2020	ALS
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Total and E. coli, 1:10 dilution by QT97

Escherichia Coliform by QT97	10	MPN/100mL	10/7/2020	ALS
Total Coliforms by QT97	8660	MPN/100mL	10/7/2020	ALS

Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis

Ammonia, total	717 ± 6.8%	mg/L	9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	1.82 ± 7.5%	mg/L	9/17/2020	COW_ASB

Ammonia by colour

Ammonia, total (as N) in water	982.00	mg/L	10/7/2020	ALS
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Organochlorine Pesticides

alpha-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Aldrin	<0.0400	ug/L	10/7/2020	ALS
alpha-Benzenhexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/7/2020	ALS
beta-Benzenhexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/7/2020	ALS
Surrogate: Decachlorobiphenyl	21.6	%	10/7/2020	ALS
Dieldrin	<0.0400	ug/L	10/7/2020	ALS
Endosulfan I	<0.0800	ug/L	10/7/2020	ALS
Endosulfan II	<0.0350	ug/L	10/7/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/7/2020	ALS
Endrin	<0.0500	ug/L	10/7/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/7/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/7/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Heptachlor	<0.0400	ug/L	10/7/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/7/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/7/2020	ALS
Methoxychlor	<0.2000	ug/L	10/7/2020	ALS
Mirex	<0.2000	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.1500	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Oxychlordane	<0.04	ug/L	10/7/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Surrogate: Tetrachloro-m-xylene	78.9	%	10/7/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/7/2020	ALS

CCME PAHs in mg/L

1-Methyl Naphthalene	0.002680	mg/L	10/7/2020	ALS
2-Methyl Naphthalene	0.003830	mg/L	10/7/2020	ALS
Acenaphthene	0.002060	mg/L	10/7/2020	ALS

CCME PAHs in mg/L

Acenaphthylene	0.000069	mg/L	10/7/2020	ALS
Acridine	0.000587	mg/L	10/7/2020	ALS
Anthracene	0.000408	mg/L	10/7/2020	ALS
B(a)P Total Potency Equivalent	0.000056	mg/L	10/7/2020	ALS
Benzo(a)anthracene	0.000128	mg/L	10/7/2020	ALS
Benzo(a)pyrene	0.0000320	mg/L	10/7/2020	ALS
Benzo(b&j)fluoranthene	0.000055	mg/L	10/7/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	10/7/2020	ALS
Benzo(k)fluoranthene	0.000020	mg/L	10/7/2020	ALS
Chrysene	0.000085	mg/L	10/7/2020	ALS
Surrogate: d10-Acenaphthene	87.6	%	10/7/2020	ALS
Surrogate: d10-Phenanthrene	101.8	%	10/7/2020	ALS
Surrogate: d12-Chrysene	72.1	%	10/7/2020	ALS
Surrogate: d8-Naphthalene	320.2	%	10/7/2020	ALS
Surrogate: d9-Acridine (SS)	120.6	%	10/7/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	10/7/2020	ALS
Fluoranthene	0.000606	mg/L	10/7/2020	ALS
Fluorene	0.001740	mg/L	10/7/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	10/7/2020	ALS
Naphthalene	<0.021000	mg/L	10/7/2020	ALS
Phenanthrene	0.002460	mg/L	10/7/2020	ALS
Pyrene	0.000432	mg/L	10/7/2020	ALS
Quinoline	<0.000030	mg/L	10/7/2020	ALS

Alkalinity, Carbonate

Alkalinity, carbonate	8.64	mg/L	10/7/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	371.00	mg/L	10/7/2020	ALS
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Sample No. : 328540
Sample Description : LQ-25-MH34
Sample Date : September 9, 2020
Sample Received : September 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	425 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, total to pH 4.5	425 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	158 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	226 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		9/15/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	86.0 ± 6.1%	mg/L		9/14/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1720 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.74 ± 0.07 units	units		9/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1260 ± 6.5%	mg/L		9/12/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1280 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	18.0	mg/L		9/14/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	0.22	mg/L		10/15/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	9.0 ± 15%	mg/L		10/15/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	37.9 ± 13%	mg/L		9/11/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	49.1 ± 13%	mg/L		9/11/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		9/13/2020	COW_ASB
Arsenic (As), total in water	0.000841 ± 8.1%	mg/L		9/13/2020	COW_ASB
Barium (Ba), total in water	0.12766 ± 11.8%	mg/L		9/13/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/13/2020	COW_ASB
Boron (B), total in water	0.25275 ± 24.2%	mg/L	9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/13/2020	COW_ASB
Calcium (Ca), total in water	129.44 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.00613 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.011887 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	0.13054 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	86.400 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.12682 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.012837 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	0.1139 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	46.686 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.00283 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	96.392 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	0.016806 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.02956 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	323	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	679	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	3.65 ± 4.4%	NTU	9/9/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<0.5000	ug/L	10/2/2020	ALS
Surrogate: p-Terphenyl d14	87.1000	%	10/2/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	480.00	mg/L	10/2/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/2/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	394.00	mg/L	10/2/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/2/2020	ALS
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Carbons

Dissolved Inorganic Carbon	67.4	mg/L	10/2/2020	ALS
Dissolved Organic Carbon	26.5	mg/L	10/2/2020	ALS
Total Dissolved Carbon by Calculation	93.9	mg/L	10/2/2020	ALS

Ammonia by colour

Ammonia, total (as N) in water	4.40	mg/L	10/2/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	212.000	mg/L	10/2/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	211.00	mg/L	10/2/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	0.000997	mg/L	10/2/2020	ALS
2-Methyl Naphthalene	0.000194	mg/L	10/2/2020	ALS
Acenaphthene	0.004170	mg/L	10/2/2020	ALS
Acenaphthylene	0.000037	mg/L	10/2/2020	ALS
Acridine	0.002450	mg/L	10/2/2020	ALS
Anthracene	0.001380	mg/L	10/2/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	10/2/2020	ALS
Benzo(a)anthracene	<0.000054	mg/L	10/2/2020	ALS
Benzo(a)pyrene	0.0000122	mg/L	10/2/2020	ALS
Benzo(b&j)fluoranthene	0.000043	mg/L	10/2/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	10/2/2020	ALS
Benzo(k)fluoranthene	0.000013	mg/L	10/2/2020	ALS
Chrysene	<0.000037	mg/L	10/2/2020	ALS
Surrogate: d10-Acenaphthene	90.3	%	10/2/2020	ALS
Surrogate: d10-Phenanthrene	102.7	%	10/2/2020	ALS
Surrogate: d12-Chrysene	95.6	%	10/2/2020	ALS
Surrogate: d8-Naphthalene	86.4	%	10/2/2020	ALS
Surrogate: d9-Acridine (SS)	110.4	%	10/2/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	10/2/2020	ALS
Fluoranthene	0.001500	mg/L	10/2/2020	ALS
Fluorene	0.005550	mg/L	10/2/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	10/2/2020	ALS
Naphthalene	0.008890	mg/L	10/2/2020	ALS
Phenanthrene	0.008360	mg/L	10/2/2020	ALS
Pyrene	0.000875	mg/L	10/2/2020	ALS
Quinoline	0.000221	mg/L	10/2/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/2/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/2/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	97.400	%	10/2/2020	ALS
Fraction 2 (C10-C16)	0.100	mg/L	10/2/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	10/2/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	10/2/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/2/2020	ALS
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Cyanide

Cyanide, Total in water	0.0014	mg/L	10/2/2020	ALS
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Mercury in Water

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/2/2020	ALS
Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/2/2020	ALS
Mercury (Hg) total in water	<0.0000050	mg/L	10/2/2020	ALS

Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0083	mg/L	10/2/2020	ALS
Aluminum (Al), total in water	0.0140	mg/L	10/2/2020	ALS
Antimony (Sb), dissolved in water	0.000480	mg/L	10/2/2020	ALS
Antimony (Sb), total in water	0.0005	mg/L	10/2/2020	ALS
Arsenic (As), dissolved in water	0.00126	mg/L	10/2/2020	ALS
Arsenic (As), total in water	0.00101	mg/L	10/2/2020	ALS
Barium (Ba), dissolved in water	0.1390	mg/L	10/2/2020	ALS
Barium (Ba), total in water	0.1410	mg/L	10/2/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/2/2020	ALS
Beryllium (Be), total in water	<0.00010	mg/L	10/2/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/2/2020	ALS
Bismuth (Bi), total in water	<0.000050	mg/L	10/2/2020	ALS
Boron (B), dissolved in water	0.2490	mg/L	10/2/2020	ALS
Boron (B), total in water	0.2580	mg/L	10/2/2020	ALS
Cadmium (Cd), dissolved in water	0.000010	mg/L	10/2/2020	ALS
Cadmium (Cd), total in water	0.000010	mg/L	10/2/2020	ALS
Calcium (Ca), dissolved in water	143.0000	mg/L	10/2/2020	ALS
Calcium (Ca), total in water	142.0000	mg/L	10/2/2020	ALS
Cesium (Cs), dissolved in water	0.000054	mg/L	10/2/2020	ALS
Cesium (Cs), total in water	0.000046	mg/L	10/2/2020	ALS
Chromium (Cr), dissolved in water	0.00068	mg/L	10/2/2020	ALS
Chromium (Cr), total in water	0.00067	mg/L	10/2/2020	ALS
Cobalt (Co), dissolved in water	0.00065	mg/L	10/2/2020	ALS
Cobalt (Co), total in water	0.00073	mg/L	10/2/2020	ALS
Copper (Cu), dissolved in water	0.00600	mg/L	10/2/2020	ALS
Copper (Cu), total in water	0.00629	mg/L	10/2/2020	ALS
Hardness dissolved in water, calculated	785.3	mg/L	10/2/2020	ALS
Hardness total in water, calculated	748.3	mg/L	10/2/2020	ALS
Iron (Fe), dissolved in water	0.0160	mg/L	10/2/2020	ALS
Iron (Fe), total in water	0.0340	mg/L	10/2/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/2/2020	ALS
Lead (Pb), total in water	<0.000050	mg/L	10/2/2020	ALS
Lithium (Li), dissolved in water	0.2080	mg/L	10/2/2020	ALS
Lithium (Li), total in water	0.2280	mg/L	10/2/2020	ALS
Magnesium (Mg), dissolved in water	104.0000	mg/L	10/2/2020	ALS
Magnesium (Mg), total in water	95.6000	mg/L	10/2/2020	ALS
Manganese (Mn), dissolved in water	0.1380	mg/L	10/2/2020	ALS

Total Metals by ICP-MS

Manganese (Mn), total in water	0.1590	mg/L	10/2/2020	ALS
Molybdenum (Mo), dissolved in water	0.010000	mg/L	10/2/2020	ALS
Molybdenum (Mo), total in water	0.010100	mg/L	10/2/2020	ALS
Nickel (Ni), dissolved in water	0.01190	mg/L	10/2/2020	ALS
Nickel (Ni), total in water	0.01230	mg/L	10/2/2020	ALS
Phosphorus (P), dissolved in water	0.079	mg/L	10/2/2020	ALS
Phosphorus (P), total in water	0.050	mg/L	10/2/2020	ALS
Potassium (K), dissolved in water	56.8000	mg/L	10/2/2020	ALS
Potassium (K), total in water	48.3000	mg/L	10/2/2020	ALS
Rubidium (Rb), dissolved in water	0.0155	mg/L	10/2/2020	ALS
Rubidium (Rb), total in water	0.0140	mg/L	10/2/2020	ALS
Selenium (Se), dissolved in water	0.000547	mg/L	10/2/2020	ALS
Selenium (Se), total in water	0.000415	mg/L	10/2/2020	ALS
Silicon (Si), dissolved in water	6.1400	mg/L	10/2/2020	ALS
Silicon (Si), total in water	5.8000	mg/L	10/2/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	10/2/2020	ALS
Silver (Ag), total in water	<0.000010	mg/L	10/2/2020	ALS
Sodium (Na), dissolved in water	111.0000	mg/L	10/2/2020	ALS
Sodium (Na), total in water	103.0000	mg/L	10/2/2020	ALS
Strontium (Sr), dissolved in water	0.7880	mg/L	10/2/2020	ALS
Strontium (Sr), total in water	0.7370	mg/L	10/2/2020	ALS
Sulfur (S), dissolved in water	78.2000	mg/L	10/2/2020	ALS
Sulfur (S), total in water	80.9000	mg/L	10/2/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/2/2020	ALS
Tellurium (Te), total in water	<0.00020	mg/L	10/2/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/2/2020	ALS
Thallium (Tl), total in water	<0.000010	mg/L	10/2/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/2/2020	ALS
Thorium (Th), total in water	<0.00010	mg/L	10/2/2020	ALS
Tin (Sn), dissolved in water	0.00018	mg/L	10/2/2020	ALS
Tin (Sn), total in water	<0.00010	mg/L	10/2/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/2/2020	ALS
Titanium (Ti), total in water	0.00047	mg/L	10/2/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/2/2020	ALS
Tungsten (W), total in water	<0.00010	mg/L	10/2/2020	ALS
Uranium (U), dissolved in water	0.016100	mg/L	10/2/2020	ALS
Uranium (U), total in water	0.018200	mg/L	10/2/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/2/2020	ALS
Vanadium (V), total in water	<0.00050	mg/L	10/2/2020	ALS
Zinc (Zn), dissolved in water	0.0147	mg/L	10/2/2020	ALS
Zinc (Zn), total in water	0.0137	mg/L	10/2/2020	ALS

Total Metals by ICP-MS

Zirconium (Zr), dissolved in water	0.00096	mg/L	10/2/2020	ALS
Zirconium (Zr), total in water	0.00088	mg/L	10/2/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	82.900	%	10/2/2020	ALS
Surrogate: d14-Terphenyl in water	97.700	%	10/2/2020	ALS
Diazinon in water	<0.1000	ug/L	10/2/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	<5.0	mg/L	10/2/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	10/2/2020	ALS
1,1,1-Trichloroethane	<0.00050	mg/L	10/2/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00050	mg/L	10/2/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	10/2/2020	ALS
1,1-Dichloroethane	<0.00050	mg/L	10/2/2020	ALS
1,1-Dichloropropene	<0.0010	mg/L	10/2/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	10/2/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	10/2/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	10/2/2020	ALS
1,2,4-Trimethylbenzene	<0.0010	mg/L	10/2/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	10/2/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	10/2/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	10/2/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	10/2/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	10/2/2020	ALS
1,3,5-Trimethylbenzene	<0.0010	mg/L	10/2/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	10/2/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	10/2/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	10/2/2020	ALS
Surrogate: 1,4-Difluorobenzene	92.4	%	10/2/2020	ALS
2,2-Dichloropropane	<0.0020	mg/L	10/2/2020	ALS
2-Chlorotoluene	<0.02	mg/L	10/2/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.02	mg/L	10/2/2020	ALS
Surrogate: 4-Bromofluorobenzene	74.6	%	10/2/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	10/2/2020	ALS
4-Isopropyltoluene	<0.0010	mg/L	10/2/2020	ALS
Acetone	<0.050	mg/L	10/2/2020	ALS
Benzene	<0.00050	mg/L	10/2/2020	ALS
Bromobenzene	<0.0010	mg/L	10/2/2020	ALS
Bromochloromethane	<0.0010	mg/L	10/2/2020	ALS
Bromodichloromethane	<0.00050	mg/L	10/2/2020	ALS
Bromoform	<0.0010	mg/L	10/2/2020	ALS

VOC plus F1 by GCMS

Bromomethane	<0.001	mg/L	10/2/2020	ALS
Carbon disulfide	<0.0050	mg/L	10/2/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	10/2/2020	ALS
Chlorobenzene	<0.0010	mg/L	10/2/2020	ALS
Chloroethane	<0.001	mg/L	10/2/2020	ALS
Chloroform	<0.00050	mg/L	10/2/2020	ALS
Chloromethane	<0.005	mg/L	10/2/2020	ALS
cis-1,2-Dichloroethene	<0.00100	mg/L	10/2/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	10/2/2020	ALS
Dibromochloromethane	<0.0005	mg/L	10/2/2020	ALS
Dibromomethane	<0.0010	mg/L	10/2/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	10/2/2020	ALS
Dichloromethane	<0.00500	mg/L	10/2/2020	ALS
Ethylbenzene	<0.00050	mg/L	10/2/2020	ALS
F1	<0.1000	mg/L	10/2/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	10/2/2020	ALS
Hexane	<0.0010	mg/L	10/2/2020	ALS
Isopropylbenzene	<0.0010	mg/L	10/2/2020	ALS
M+P-Xylenes	<0.0004	mg/L	10/2/2020	ALS
Methylethylketone [MEK]	<0.02	mg/L	10/2/2020	ALS
Methylisobutylketone [MIBK]	<0.02	mg/L	10/2/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	10/2/2020	ALS
n-Butylbenzene	<0.0010	mg/L	10/2/2020	ALS
o-Xylene	<0.0005	mg/L	10/2/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	10/2/2020	ALS
Styrene	<0.0010	mg/L	10/2/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	10/2/2020	ALS
Tetrachloroethene	<0.00050	mg/L	10/2/2020	ALS
Toluene	<0.00050	mg/L	10/2/2020	ALS
trans-1,2-Dichloroethene	<0.0010	mg/L	10/2/2020	ALS
trans-1,3-Dichloropropene	<0.0020	mg/L	10/2/2020	ALS
Trichloroethene	<0.00050	mg/L	10/2/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/2/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/2/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/2/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/2/2020	ALS
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PCBs

Aroclor 1016	<0.0200	ug/L	10/2/2020	ALS
Aroclor 1221	<0.0200	ug/L	10/2/2020	ALS

PCBs				
Aroclor 1232	<0.0200	ug/L	10/2/2020	ALS
Aroclor 1242	<0.0200	ug/L	10/2/2020	ALS
Aroclor 1248	<0.0200	ug/L	10/2/2020	ALS
Aroclor 1254	<0.0200	ug/L	10/2/2020	ALS
Aroclor 1260	<0.0200	ug/L	10/2/2020	ALS
Aroclor 1262	<0.0200	ug/L	10/2/2020	ALS
Aroclor 1268	<0.0200	ug/L	10/2/2020	ALS
Total Polychlorinated Biphenyls	<0.0600	ug/L	10/2/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.001	mg/L	10/2/2020	ALS
Phenoxy Acid Herbicides				
2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	10/2/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	10/2/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	10/2/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0010	ug/L	10/2/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	65.9	%	10/2/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	10/2/2020	ALS
Bromoxynil in water	<0.0010	ug/L	10/2/2020	ALS
Clopyralid in water	<0.0010	ug/L	10/2/2020	ALS
Dicamba in water	<0.0001	ug/L	10/2/2020	ALS
Dinoseb in water	<0.0010	ug/L	10/2/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	10/2/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0010	ug/L	10/2/2020	ALS
Mecoprop in water	<0.0010	ug/L	10/2/2020	ALS
Picloram in water	<0.0010	ug/L	10/2/2020	ALS
Triclopyr in water	<0.0001	mg/L	10/2/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	17	MPN/100mL	10/2/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	3	MPN/100mL	10/2/2020	ALS
Total Coliforms by QT97	488	MPN/100mL	10/2/2020	ALS
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis				
Ammonia, total	3.71 ± 6.8%	mg/L	9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	8.81 ± 7.8%	mg/L	9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.222 ± 7.5%	mg/L	9/17/2020	COW_ASB
Organochlorine Pesticides				
alpha-Chlordane	<0.0400	ug/L	10/8/2020	ALS
Aldrin	<0.0400	ug/L	10/8/2020	ALS
alpha-Benzenhexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/8/2020	ALS

Organochlorine Pesticides

beta-Benzenehexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/8/2020	ALS
Surrogate: Decachlorobiphenyl	78.0	%	10/8/2020	ALS
Dieldrin	<0.0400	ug/L	10/8/2020	ALS
Endosulfan I	<0.0350	ug/L	10/8/2020	ALS
Endosulfan II	<0.0350	ug/L	10/8/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/8/2020	ALS
Endrin	<0.0500	ug/L	10/8/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/8/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/8/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/8/2020	ALS
Heptachlor	<0.0400	ug/L	10/8/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/8/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/8/2020	ALS
Methoxychlor	<0.0400	ug/L	10/8/2020	ALS
Mirex	<0.0400	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Oxychlordane	<0.04	ug/L	10/8/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Surrogate: Tetrachloro-m-xylene	80.3	%	10/8/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/8/2020	ALS

Sample No. : 328541
Sample Description : LQ-25-MH46
Sample Date : September 9, 2020
Sample Received : September 9, 2020
Sample Plan : Ad hoc sample
Sample Comments : ABSDN

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	7420 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, total to pH 4.5	7420 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1610 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	874 ± 15%	mg/L		9/15/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	4870 ± 6.1%	mg/L		9/14/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	15600 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.24 ± 0.07 units	units		9/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	8970 ± 6.5%	mg/L		9/12/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	10000 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	1043	mg/L		9/14/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1120	mg/L		9/29/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1120 ± 15%	mg/L		9/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1590 ± 13%	mg/L		9/14/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1592 ± 13%	mg/L		9/14/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.005066 ± 9.2%	mg/L		9/13/2020	COW_ASB
Arsenic (As), total in water	0.031079 ± 8.1%	mg/L		9/13/2020	COW_ASB

Metals Total in Water by ICP-MS

Barium (Ba), total in water	0.41014 ± 11.8%	mg/L	9/13/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/13/2020	COW_ASB
Boron (B), total in water	9.0023 ± 24.2%	mg/L	9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/13/2020	COW_ASB
Calcium (Ca), total in water	509.61 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.14671 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.012937 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	40.379 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	0.005033 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	492.24 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	2.0867 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.29413 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	12.571 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	472.79 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.01253 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	1389.6 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.74021 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1270	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	3300	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	266.00 ± 4.4%	NTU	9/9/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<1.5000	ug/L	9/29/2020	ALS
Surrogate: p-Terphenyl d14	25.7000	%	9/29/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	462.00	mg/L	9/29/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	9/29/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	379.00	mg/L	9/29/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	9/29/2020	ALS
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Carbons

Dissolved Inorganic Carbon	1350.0	mg/L	9/29/2020	ALS
Dissolved Organic Carbon	2150.0	mg/L	9/29/2020	ALS
Total Dissolved Carbon by Calculation	3500.0	mg/L	9/29/2020	ALS

Ammonia by colour

Ammonia, total (as N) in water	1020.00	mg/L	9/29/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1670.000	mg/L	9/29/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<30.00	mg/L	9/29/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	0.000678	mg/L	9/29/2020	ALS
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2-Methyl Naphthalene	0.000856	mg/L	9/29/2020	ALS
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Acenaphthene	0.000616	mg/L	9/29/2020	ALS
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Acenaphthylene	<0.000023	mg/L	9/29/2020	ALS
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Acridine	0.000536	mg/L	9/29/2020	ALS
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Anthracene	0.000109	mg/L	9/29/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	9/29/2020	ALS
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Benzo(a)anthracene	0.000036	mg/L	9/29/2020	ALS
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Benzo(a)pyrene	<0.0000140	mg/L	9/29/2020	ALS
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Benzo(b&j)fluoranthene	0.000013	mg/L	9/29/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	9/29/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	9/29/2020	ALS
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Chrysene	0.000088	mg/L	9/29/2020	ALS
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Surrogate: d10-Acenaphthene	100.4	%	9/29/2020	ALS
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Surrogate: d10-Phenanthrene	109.7	%	9/29/2020	ALS
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Surrogate: d12-Chrysene	119.3	%	9/29/2020	ALS
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Surrogate: d8-Naphthalene	1307.0	%	9/29/2020	ALS
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Surrogate: d9-Acridine (SS)	118.9	%	9/29/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	9/29/2020	ALS
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Fluoranthene	0.000122	mg/L	9/29/2020	ALS
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Fluorene	0.000539	mg/L	9/29/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	9/29/2020	ALS
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Naphthalene	<0.004400	mg/L	9/29/2020	ALS
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Phenanthrene	0.000752	mg/L	9/29/2020	ALS
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Pyrene	0.000152	mg/L	9/29/2020	ALS
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Quinoline	<0.000220	mg/L	9/29/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	0.40	mg/L	9/29/2020	ALS
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Total Hydrocarbons (C6-C50)	0.84	mg/L	9/29/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	97.000	%	9/29/2020	ALS
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Fraction 2 (C10-C16)	0.330	mg/L	9/29/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	9/29/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	9/29/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	0.00102	mg/L	9/29/2020	ALS
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Cyanide

Cyanide

Cyanide, Total in water	0.0160	mg/L	9/29/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		9/29/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000500	mg/L	9/29/2020	ALS
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Mercury (Hg) total in water	<0.0000500	mg/L	9/29/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.1710	mg/L	9/29/2020	ALS
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Aluminum (Al), total in water	0.4870	mg/L	9/29/2020	ALS
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Antimony (Sb), dissolved in water	0.005800	mg/L	9/29/2020	ALS
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Antimony (Sb), total in water	0.0063	mg/L	9/29/2020	ALS
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Arsenic (As), dissolved in water	0.02660	mg/L	9/29/2020	ALS
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Arsenic (As), total in water	0.02990	mg/L	9/29/2020	ALS
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Barium (Ba), dissolved in water	0.3140	mg/L	9/29/2020	ALS
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Barium (Ba), total in water	0.3740	mg/L	9/29/2020	ALS
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Beryllium (Be), dissolved in water	<0.00100	mg/L	9/29/2020	ALS
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Beryllium (Be), total in water	<0.00100	mg/L	9/29/2020	ALS
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Bismuth (Bi), dissolved in water	<0.000500	mg/L	9/29/2020	ALS
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Bismuth (Bi), total in water	<0.000500	mg/L	9/29/2020	ALS
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Boron (B), dissolved in water	7.9900	mg/L	9/29/2020	ALS
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Boron (B), total in water	8.8900	mg/L	9/29/2020	ALS
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Cadmium (Cd), dissolved in water	<0.000050	mg/L	9/29/2020	ALS
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Cadmium (Cd), total in water	0.000192	mg/L	9/29/2020	ALS
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Calcium (Ca), dissolved in water	485.0000	mg/L	9/29/2020	ALS
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Calcium (Ca), total in water	539.0000	mg/L	9/29/2020	ALS
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Cesium (Cs), dissolved in water	0.001170	mg/L	9/29/2020	ALS
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Cesium (Cs), total in water	0.001340	mg/L	9/29/2020	ALS
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Chromium (Cr), dissolved in water	0.11600	mg/L	9/29/2020	ALS
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Chromium (Cr), total in water	0.13700	mg/L	9/29/2020	ALS
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Cobalt (Co), dissolved in water	0.02960	mg/L	9/29/2020	ALS
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Cobalt (Co), total in water	0.03610	mg/L	9/29/2020	ALS
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Copper (Cu), dissolved in water	<0.00200	mg/L	9/29/2020	ALS
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Copper (Cu), total in water	0.00530	mg/L	9/29/2020	ALS
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Hardness dissolved in water, calculated	3451.2	mg/L	9/29/2020	ALS
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Hardness total in water, calculated	3660.2	mg/L	9/29/2020	ALS
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Iron (Fe), dissolved in water	8.7000	mg/L	9/29/2020	ALS
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Iron (Fe), total in water	26.5000	mg/L	9/29/2020	ALS
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Lead (Pb), dissolved in water	<0.000500	mg/L	9/29/2020	ALS
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Lead (Pb), total in water	0.004490	mg/L	9/29/2020	ALS
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Lithium (Li), dissolved in water	0.4860	mg/L	9/29/2020	ALS
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Lithium (Li), total in water	0.5080	mg/L	9/29/2020	ALS
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Magnesium (Mg), dissolved in water	544.0000	mg/L	9/29/2020	ALS
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Total Metals by ICP-MS

Magnesium (Mg), total in water	562.0000	mg/L	9/29/2020	ALS
Manganese (Mn), dissolved in water	1.6100	mg/L	9/29/2020	ALS
Manganese (Mn), total in water	1.9900	mg/L	9/29/2020	ALS
Molybdenum (Mo), dissolved in water	0.002750	mg/L	9/29/2020	ALS
Molybdenum (Mo), total in water	0.004070	mg/L	9/29/2020	ALS
Nickel (Ni), dissolved in water	0.24600	mg/L	9/29/2020	ALS
Nickel (Ni), total in water	0.26800	mg/L	9/29/2020	ALS
Phosphorus (P), dissolved in water	10.300	mg/L	9/29/2020	ALS
Phosphorus (P), total in water	12.800	mg/L	9/29/2020	ALS
Potassium (K), dissolved in water	504.0000	mg/L	9/29/2020	ALS
Potassium (K), total in water	509.0000	mg/L	9/29/2020	ALS
Rubidium (Rb), dissolved in water	0.1780	mg/L	9/29/2020	ALS
Rubidium (Rb), total in water	0.1830	mg/L	9/29/2020	ALS
Selenium (Se), dissolved in water	0.001680	mg/L	9/29/2020	ALS
Selenium (Se), total in water	0.001900	mg/L	9/29/2020	ALS
Silicon (Si), dissolved in water	22.8000	mg/L	9/29/2020	ALS
Silicon (Si), total in water	24.1000	mg/L	9/29/2020	ALS
Silver (Ag), dissolved in water	0.000110	mg/L	9/29/2020	ALS
Silver (Ag), total in water	<0.000100	mg/L	9/29/2020	ALS
Sodium (Na), dissolved in water	1450.0000	mg/L	9/29/2020	ALS
Sodium (Na), total in water	1490.0000	mg/L	9/29/2020	ALS
Strontium (Sr), dissolved in water	5.1100	mg/L	9/29/2020	ALS
Strontium (Sr), total in water	5.5600	mg/L	9/29/2020	ALS
Sulfur (S), dissolved in water	25.8000	mg/L	9/29/2020	ALS
Sulfur (S), total in water	30.1000	mg/L	9/29/2020	ALS
Tellurium (Te), dissolved in water	<0.00200	mg/L	9/29/2020	ALS
Tellurium (Te), total in water	<0.00200	mg/L	9/29/2020	ALS
Thallium (Tl), dissolved in water	<0.000100	mg/L	9/29/2020	ALS
Thallium (Tl), total in water	<0.000100	mg/L	9/29/2020	ALS
Thorium (Th), dissolved in water	<0.00100	mg/L	9/29/2020	ALS
Thorium (Th), total in water	<0.00100	mg/L	9/29/2020	ALS
Tin (Sn), dissolved in water	0.00640	mg/L	9/29/2020	ALS
Tin (Sn), total in water	0.01050	mg/L	9/29/2020	ALS
Titanium (Ti), dissolved in water	0.07430	mg/L	9/29/2020	ALS
Titanium (Ti), total in water	0.08780	mg/L	9/29/2020	ALS
Tungsten (W), dissolved in water	0.00420	mg/L	9/29/2020	ALS
Tungsten (W), total in water	0.00420	mg/L	9/29/2020	ALS
Uranium (U), dissolved in water	0.000180	mg/L	9/29/2020	ALS
Uranium (U), total in water	0.000360	mg/L	9/29/2020	ALS
Vanadium (V), dissolved in water	0.02930	mg/L	9/29/2020	ALS
Vanadium (V), total in water	0.03210	mg/L	9/29/2020	ALS

Total Metals by ICP-MS

Zinc (Zn), dissolved in water	0.0110	mg/L	9/29/2020	ALS
Zinc (Zn), total in water	0.4150	mg/L	9/29/2020	ALS
Zirconium (Zr), dissolved in water	0.05810	mg/L	9/29/2020	ALS
Zirconium (Zr), total in water	0.03900	mg/L	9/29/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	69.300	%	10/2/2020	ALS
Surrogate: d14-Terphenyl in water	NRSUB			ALS
Diazinon in water	<0.1000	ug/L	10/2/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	17.1	mg/L	9/29/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	9/29/2020	ALS
1,1,1-Trichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1-Dichloroethane	0.00123	mg/L	9/29/2020	ALS
1,1-Dichloropropene	<0.0020	mg/L	9/29/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,2,4-Trimethylbenzene	0.0019	mg/L	9/29/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	9/29/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/29/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	9/29/2020	ALS
1,2-Dichloroethane	0.01100	mg/L	9/29/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,3,5-Trimethylbenzene	<0.0010	mg/L	9/29/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,4-Dichlorobenzene	0.00120	mg/L	9/29/2020	ALS
Surrogate: 1,4-Difluorobenzene	96.5	%	9/29/2020	ALS
2,2-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
2-Chlorotoluene	<0.02	mg/L	9/29/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.03	mg/L	9/29/2020	ALS
Surrogate: 4-Bromofluorobenzene	75.9	%	9/29/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	9/29/2020	ALS
4-Isopropyltoluene	0.0211	mg/L	9/29/2020	ALS
Acetone	7.760	mg/L	9/29/2020	ALS
Benzene	0.00281	mg/L	9/29/2020	ALS
Bromobenzene	<0.0010	mg/L	9/29/2020	ALS
Bromochloromethane	<0.0010	mg/L	9/29/2020	ALS

VOC plus F1 by GCMS

Bromodichloromethane	<0.00050	mg/L	9/29/2020	ALS
Bromoform	<0.0010	mg/L	9/29/2020	ALS
Bromomethane	<0.001	mg/L	9/29/2020	ALS
Carbon disulfide	<0.0050	mg/L	9/29/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	9/29/2020	ALS
Chlorobenzene	<0.0010	mg/L	9/29/2020	ALS
Chloroethane	0.001	mg/L	9/29/2020	ALS
Chloroform	<0.00050	mg/L	9/29/2020	ALS
Chloromethane	<0.005	mg/L	9/29/2020	ALS
cis-1,2-Dichloroethene	0.00340	mg/L	9/29/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	9/29/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/29/2020	ALS
Dibromomethane	<0.0010	mg/L	9/29/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/29/2020	ALS
Dichloromethane	<0.00500	mg/L	9/29/2020	ALS
Ethylbenzene	0.00760	mg/L	9/29/2020	ALS
F1	0.5200	mg/L	9/29/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	9/29/2020	ALS
Hexane	<0.0010	mg/L	9/29/2020	ALS
Isopropylbenzene	<0.0010	mg/L	9/29/2020	ALS
M+P-Xylenes	0.0186	mg/L	9/29/2020	ALS
Methylethylketone [MEK]	14.20	mg/L	9/29/2020	ALS
Methylisobutylketone [MIBK]	1.00	mg/L	9/29/2020	ALS
Methytertbutylether [MTBE]	0.0023	mg/L	9/29/2020	ALS
n-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
o-Xylene	0.0089	mg/L	9/29/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
Styrene	<0.0010	mg/L	9/29/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
Tetrachloroethene	<0.00050	mg/L	9/29/2020	ALS
Toluene	0.07480	mg/L	9/29/2020	ALS
trans-1,2-Dichloroethene	0.0015	mg/L	9/29/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/29/2020	ALS
Trichloroethene	<0.00050	mg/L	9/29/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/29/2020	ALS
Vinyl Chloride	0.0029	mg/L	9/29/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/29/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.02750	mg/L	9/29/2020	ALS
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PCBs

PCBs				
Aroclor 1016	<0.1300	ug/L	9/29/2020	ALS
Aroclor 1221	<0.1300	ug/L	9/29/2020	ALS
Aroclor 1232	<0.1300	ug/L	9/29/2020	ALS
Aroclor 1242	<0.1300	ug/L	9/29/2020	ALS
Aroclor 1248	<0.1300	ug/L	9/29/2020	ALS
Aroclor 1254	<0.0600	ug/L	9/29/2020	ALS
Aroclor 1260	<0.0600	ug/L	9/29/2020	ALS
Aroclor 1262	<0.0600	ug/L	9/29/2020	ALS
Aroclor 1268	<0.0600	ug/L	9/29/2020	ALS
Total Polychlorinated Biphenyls	<0.3200	ug/L	9/29/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.169	mg/L	9/29/2020	ALS
Phenoxy Acid Herbicides				
2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	9/29/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	9/29/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	9/29/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0050	ug/L	9/29/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	56.7	%	9/29/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0010	ug/L	9/29/2020	ALS
Bromoxynil in water	<0.0050	ug/L	9/29/2020	ALS
Clopyralid in water	<0.0050	ug/L	9/29/2020	ALS
Dicamba in water	<0.0010	ug/L	9/29/2020	ALS
Dinoseb in water	<0.0050	ug/L	9/29/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	9/29/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0050	ug/L	9/29/2020	ALS
Mecoprop in water	0.1290	ug/L	9/29/2020	ALS
Picloram in water	<0.0140	ug/L	9/29/2020	ALS
Triclopyr in water	<0.0010	mg/L	9/29/2020	ALS
Fecal coliforms, 1:10 dilution by QT97				
Fecal Coliforms, 1:10 dilution by QT97	30	MPN/100mL	9/29/2020	ALS
Total and E. coli, 1:10 dilution by QT97				
Escherichia Coliform by QT97	60	MPN/100mL	9/29/2020	ALS
Total Coliforms by QT97	3870	MPN/100mL	9/29/2020	ALS
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis				
Ammonia, total	822 ± 6.8%	mg/L	9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	2.80 ± 7.5%	mg/L	9/17/2020	COW_ASB
Organochlorine Pesticides				
alpha-Chlordane	<0.0400	ug/L	10/8/2020	ALS
Aldrin	<0.0400	ug/L	10/8/2020	ALS

Organochlorine Pesticides

alpha-Benzenhexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/8/2020	ALS
beta-Benzenhexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/8/2020	ALS
Surrogate: Decachlorobiphenyl	16.2	%	10/8/2020	ALS
Dieldrin	<0.0400	ug/L	10/8/2020	ALS
Endosulfan I	<0.0350	ug/L	10/8/2020	ALS
Endosulfan II	<0.0350	ug/L	10/8/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/8/2020	ALS
Endrin	<0.0500	ug/L	10/8/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/8/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/8/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/8/2020	ALS
Heptachlor	<0.0400	ug/L	10/8/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/8/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/8/2020	ALS
Methoxychlor	<0.2400	ug/L	10/8/2020	ALS
Mirex	<0.2400	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Oxychlordane	<0.04	ug/L	10/8/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Surrogate: Tetrachloro-m-xylene	89.5	%	10/8/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/8/2020	ALS

Sample No. : 328542
Sample Description : LQ-25-MH47
Sample Date : September 8, 2020
Sample Received : September 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	4630 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, total to pH 4.5	4630 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1050 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	727 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	13100 ± 15%	mg/L		9/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	>20000.0 ± 6.1%	mg/L		9/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	10300 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	5.83 ± 0.07 units	units		9/8/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	18100 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	571	mg/L		9/21/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	571 ± 15%	mg/L		9/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	6720 ± 13%	mg/L		9/14/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	6944 ± 13%	mg/L		9/14/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.019522 ± 9.2%	mg/L		9/13/2020	COW_ASB
Arsenic (As), total in water	0.017476 ± 8.1%	mg/L		9/13/2020	COW_ASB
Barium (Ba), total in water	0.77054 ± 11.8%	mg/L		9/13/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		9/13/2020	COW_ASB
Boron (B), total in water	2.4715 ± 24.2%	mg/L		9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		9/13/2020	COW_ASB
Calcium (Ca), total in water	1527.0 ± 20.9%	mg/L		9/13/2020	COW_ASB

Metals Total in Water by ICP-MS

Chromium (Cr), total in water	0.36128 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.012023 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	196.14 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	0.010470 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	290.54 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	15.364 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.45815 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	46.650 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	371.78 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.00882 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	927.52 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	1.0926 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	3810	mg/L	9/17/2020	COW_ASB
Total Hardness, calculated in water	5010	mg/L	9/17/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	85.10 ± 4.4%	NTU	9/8/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<1.5000	ug/L	9/28/2020	ALS
Surrogate: p-Terphenyl d14	22.2000	%	9/28/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	295.00	mg/L	9/28/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	242.00	mg/L	9/28/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	9/28/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	9/28/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	337.00	mg/L	9/28/2020	ALS
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Carbons

Dissolved Inorganic Carbon	35.3	mg/L	9/28/2020	ALS
Dissolved Organic Carbon	7350.0	mg/L	9/28/2020	ALS
Total Dissolved Carbon by Calculation	7390.0	mg/L	9/28/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	966.000	mg/L	9/28/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	601.00	mg/L	9/28/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	0.000054	mg/L	9/28/2020	ALS
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CCME PAHs in mg/L

2-Methyl Naphthalene	0.000080	mg/L	9/28/2020	ALS
Acenaphthene	<0.000030	mg/L	9/28/2020	ALS
Acenaphthylene	<0.000020	mg/L	9/28/2020	ALS
Acridine	<0.000070	mg/L	9/28/2020	ALS
Anthracene	<0.000010	mg/L	9/28/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	9/28/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	9/28/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	9/28/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	9/28/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	9/28/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	9/28/2020	ALS
Chrysene	<0.000020	mg/L	9/28/2020	ALS
Surrogate: d10-Acenaphthene	80.7	%	9/28/2020	ALS
Surrogate: d10-Phenanthrene	88.4	%	9/28/2020	ALS
Surrogate: d12-Chrysene	65.0	%	9/28/2020	ALS
Surrogate: d8-Naphthalene	871.0	%	9/28/2020	ALS
Surrogate: d9-Acridine (SS)	84.8	%	9/28/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	9/28/2020	ALS
Fluoranthene	<0.000020	mg/L	9/28/2020	ALS
Fluorene	<0.000020	mg/L	9/28/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	9/28/2020	ALS
Naphthalene	<0.000300	mg/L	9/28/2020	ALS
Phenanthrene	<0.000050	mg/L	9/28/2020	ALS
Pyrene	0.000011	mg/L	9/28/2020	ALS
Quinoline	<0.008500	mg/L	9/28/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	7.15	mg/L	9/28/2020	ALS
Total Hydrocarbons (C6-C50)	7.48	mg/L	9/28/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.100	%	9/28/2020	ALS
Fraction 2 (C10-C16)	0.250	mg/L	9/28/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	9/28/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	9/28/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	9/28/2020	ALS
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Cyanide

Cyanide, Total in water	0.0064	mg/L	9/28/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		9/28/2020	ALS
Mercury (Hg) dissolved in water	<0.0000500	mg/L	9/28/2020	ALS
Mercury (Hg) total in water	0.0000800	mg/L	9/28/2020	ALS

Total Metals by ICP-MS

Aluminum (Al), dissolved in water	6.1500	mg/L	9/28/2020	ALS
Aluminum (Al), total in water	8.9600	mg/L	9/28/2020	ALS
Antimony (Sb), dissolved in water	0.019300	mg/L	9/28/2020	ALS
Antimony (Sb), total in water	0.0189	mg/L	9/28/2020	ALS
Arsenic (As), dissolved in water	0.02110	mg/L	9/28/2020	ALS
Arsenic (As), total in water	0.02950	mg/L	9/28/2020	ALS
Barium (Ba), dissolved in water	0.7520	mg/L	9/28/2020	ALS
Barium (Ba), total in water	0.9820	mg/L	9/28/2020	ALS
Beryllium (Be), dissolved in water	<0.00100	mg/L	9/28/2020	ALS
Beryllium (Be), total in water	<0.00100	mg/L	9/28/2020	ALS
Bismuth (Bi), dissolved in water	<0.000500	mg/L	9/28/2020	ALS
Bismuth (Bi), total in water	<0.000500	mg/L	9/28/2020	ALS
Boron (B), dissolved in water	2.7900	mg/L	9/28/2020	ALS
Boron (B), total in water	3.2400	mg/L	9/28/2020	ALS
Cadmium (Cd), dissolved in water	0.000083	mg/L	9/28/2020	ALS
Cadmium (Cd), total in water	0.000398	mg/L	9/28/2020	ALS
Calcium (Ca), dissolved in water	1730.0000	mg/L	9/28/2020	ALS
Calcium (Ca), total in water	1850.0000	mg/L	9/28/2020	ALS
Cesium (Cs), dissolved in water	0.000140	mg/L	9/28/2020	ALS
Cesium (Cs), total in water	0.000210	mg/L	9/28/2020	ALS
Chromium (Cr), dissolved in water	0.39700	mg/L	9/28/2020	ALS
Chromium (Cr), total in water	0.42900	mg/L	9/28/2020	ALS
Cobalt (Co), dissolved in water	0.22200	mg/L	9/28/2020	ALS
Cobalt (Co), total in water	0.25500	mg/L	9/28/2020	ALS
Copper (Cu), dissolved in water	0.00510	mg/L	9/28/2020	ALS
Copper (Cu), total in water	0.01030	mg/L	9/28/2020	ALS
Hardness dissolved in water, calculated	5703.5	mg/L	9/28/2020	ALS
Hardness total in water, calculated	6196.6	mg/L	9/28/2020	ALS
Iron (Fe), dissolved in water	207.0000	mg/L	9/28/2020	ALS
Iron (Fe), total in water	219.0000	mg/L	9/28/2020	ALS
Lead (Pb), dissolved in water	0.009300	mg/L	9/28/2020	ALS
Lead (Pb), total in water	0.018800	mg/L	9/28/2020	ALS
Lithium (Li), dissolved in water	0.3370	mg/L	9/28/2020	ALS
Lithium (Li), total in water	0.3440	mg/L	9/28/2020	ALS
Magnesium (Mg), dissolved in water	336.0000	mg/L	9/28/2020	ALS
Magnesium (Mg), total in water	383.0000	mg/L	9/28/2020	ALS
Manganese (Mn), dissolved in water	16.2000	mg/L	9/28/2020	ALS
Manganese (Mn), total in water	17.8000	mg/L	9/28/2020	ALS
Molybdenum (Mo), dissolved in water	0.018200	mg/L	9/28/2020	ALS
Molybdenum (Mo), total in water	0.029800	mg/L	9/28/2020	ALS
Nickel (Ni), dissolved in water	0.47800	mg/L	9/28/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), total in water	0.54600	mg/L	9/28/2020	ALS
Phosphorus (P), dissolved in water	49.800	mg/L	9/28/2020	ALS
Phosphorus (P), total in water	61.700	mg/L	9/28/2020	ALS
Potassium (K), dissolved in water	444.0000	mg/L	9/28/2020	ALS
Potassium (K), total in water	476.0000	mg/L	9/28/2020	ALS
Rubidium (Rb), dissolved in water	0.1730	mg/L	9/28/2020	ALS
Rubidium (Rb), total in water	0.1880	mg/L	9/28/2020	ALS
Selenium (Se), dissolved in water	0.005500	mg/L	9/28/2020	ALS
Selenium (Se), total in water	0.006280	mg/L	9/28/2020	ALS
Silicon (Si), dissolved in water	31.4000	mg/L	9/28/2020	ALS
Silicon (Si), total in water	36.0000	mg/L	9/28/2020	ALS
Silver (Ag), dissolved in water	<0.000100	mg/L	9/28/2020	ALS
Silver (Ag), total in water	<0.000100	mg/L	9/28/2020	ALS
Sodium (Na), dissolved in water	998.0000	mg/L	9/28/2020	ALS
Sodium (Na), total in water	1080.0000	mg/L	9/28/2020	ALS
Strontium (Sr), dissolved in water	3.3900	mg/L	9/28/2020	ALS
Strontium (Sr), total in water	3.7600	mg/L	9/28/2020	ALS
Sulfur (S), dissolved in water	238.0000	mg/L	9/28/2020	ALS
Sulfur (S), total in water	271.0000	mg/L	9/28/2020	ALS
Tellurium (Te), dissolved in water	<0.00200	mg/L	9/28/2020	ALS
Tellurium (Te), total in water	<0.00200	mg/L	9/28/2020	ALS
Thallium (Tl), dissolved in water	<0.000100	mg/L	9/28/2020	ALS
Thallium (Tl), total in water	<0.000100	mg/L	9/28/2020	ALS
Thorium (Th), dissolved in water	0.00150	mg/L	9/28/2020	ALS
Thorium (Th), total in water	0.00230	mg/L	9/28/2020	ALS
Tin (Sn), dissolved in water	0.01750	mg/L	9/28/2020	ALS
Tin (Sn), total in water	0.02270	mg/L	9/28/2020	ALS
Titanium (Ti), dissolved in water	0.15100	mg/L	9/28/2020	ALS
Titanium (Ti), total in water	0.19200	mg/L	9/28/2020	ALS
Tungsten (W), dissolved in water	0.00870	mg/L	9/28/2020	ALS
Tungsten (W), total in water	0.01080	mg/L	9/28/2020	ALS
Uranium (U), dissolved in water	0.002340	mg/L	9/28/2020	ALS
Uranium (U), total in water	0.004290	mg/L	9/28/2020	ALS
Vanadium (V), dissolved in water	0.05010	mg/L	9/28/2020	ALS
Vanadium (V), total in water	0.06570	mg/L	9/28/2020	ALS
Zinc (Zn), dissolved in water	1.0400	mg/L	9/28/2020	ALS
Zinc (Zn), total in water	4.9500	mg/L	9/28/2020	ALS
Zirconium (Zr), dissolved in water	0.03500	mg/L	9/28/2020	ALS
Zirconium (Zr), total in water	0.04000	mg/L	9/28/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	51.100	%	9/28/2020	ALS
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Miscellaneous Pesticides

Surrogate: d14-Terphenyl in water	NRSUB			ALS
Diazinon in water	<0.1500	ug/L	9/28/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	10.3	mg/L	9/28/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	9/28/2020	ALS
1,1,1-Trichloroethane	0.00561	mg/L	9/28/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00050	mg/L	9/28/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/28/2020	ALS
1,1-Dichloroethane	0.00417	mg/L	9/28/2020	ALS
1,1-Dichloropropene	<0.0010	mg/L	9/28/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	9/28/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	9/28/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	9/28/2020	ALS
1,2,4-Trimethylbenzene	0.0013	mg/L	9/28/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	9/28/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/28/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	9/28/2020	ALS
1,2-Dichloroethane	0.00892	mg/L	9/28/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/28/2020	ALS
1,3,5-Trimethylbenzene	<0.0010	mg/L	9/28/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/28/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	9/28/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	9/28/2020	ALS
Surrogate: 1,4-Difluorobenzene	97.4	%	9/28/2020	ALS
2,2-Dichloropropane	<0.0010	mg/L	9/28/2020	ALS
2-Chlorotoluene	<0.02	mg/L	9/28/2020	ALS
2-Hexanone (Methyl butyl ketone)	0.06	mg/L	9/28/2020	ALS
Surrogate: 4-Bromofluorobenzene	83.6	%	9/28/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	9/28/2020	ALS
4-Isopropyltoluene	0.0012	mg/L	9/28/2020	ALS
Acetone	0.756	mg/L	9/28/2020	ALS
Benzene	0.00134	mg/L	9/28/2020	ALS
Bromobenzene	<0.0010	mg/L	9/28/2020	ALS
Bromochloromethane	<0.0010	mg/L	9/28/2020	ALS
Bromodichloromethane	<0.00050	mg/L	9/28/2020	ALS
Bromoform	<0.0010	mg/L	9/28/2020	ALS
Bromomethane	<0.001	mg/L	9/28/2020	ALS
Carbon disulfide	<0.0050	mg/L	9/28/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	9/28/2020	ALS
Chlorobenzene	<0.0010	mg/L	9/28/2020	ALS

VOC plus F1 by GCMS

Chloroethane	0.002	mg/L	9/28/2020	ALS
Chloroform	<0.00050	mg/L	9/28/2020	ALS
Chloromethane	<0.005	mg/L	9/28/2020	ALS
cis-1,2-Dichloroethene	<0.00200	mg/L	9/28/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	9/28/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/28/2020	ALS
Dibromomethane	<0.0010	mg/L	9/28/2020	ALS
Dichlorodifluoromethane	0.005	mg/L	9/28/2020	ALS
Dichloromethane	0.17000	mg/L	9/28/2020	ALS
Ethylbenzene	0.00241	mg/L	9/28/2020	ALS
F1	7.2300	mg/L	9/28/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	9/28/2020	ALS
Hexane	<0.0010	mg/L	9/28/2020	ALS
Isopropylbenzene	<0.0010	mg/L	9/28/2020	ALS
M+P-Xylenes	0.0063	mg/L	9/28/2020	ALS
Methylethylketone [MEK]	0.63	mg/L	9/28/2020	ALS
Methylisobutylketone [MIBK]	<0.02	mg/L	9/28/2020	ALS
Methyltertbutylether [MTBE]	0.0013	mg/L	9/28/2020	ALS
n-Butylbenzene	<0.0010	mg/L	9/28/2020	ALS
o-Xylene	0.0032	mg/L	9/28/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	9/28/2020	ALS
Styrene	0.0025	mg/L	9/28/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	9/28/2020	ALS
Tetrachloroethene	0.00397	mg/L	9/28/2020	ALS
Toluene	0.05990	mg/L	9/28/2020	ALS
trans-1,2-Dichloroethene	0.0015	mg/L	9/28/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/28/2020	ALS
Trichloroethene	0.00063	mg/L	9/28/2020	ALS
Trichlorofluoromethane	0.0020	mg/L	9/28/2020	ALS
Vinyl Chloride	0.0009	mg/L	9/28/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/28/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.00943	mg/L	9/28/2020	ALS
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PCBs

Aroclor 1016	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1221	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1232	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1242	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1248	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1254	<0.1000	ug/L	9/28/2020	ALS

PCBs				
Aroclor 1260	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1262	<0.1000	ug/L	9/28/2020	ALS
Aroclor 1268	<0.1000	ug/L	9/28/2020	ALS
Total Polychlorinated Biphenyls	<0.3000	ug/L	9/28/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.742	mg/L	9/28/2020	ALS
Phenoxy Acid Herbicides				
2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	9/28/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	9/28/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	0.0415	ug/L	9/28/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0010	ug/L	9/28/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	64.2	%	9/28/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0010	ug/L	9/28/2020	ALS
Bromoxynil in water	<0.0010	ug/L	9/28/2020	ALS
Clopyralid in water	<0.0050	ug/L	9/28/2020	ALS
Dicamba in water	<0.0010	ug/L	9/28/2020	ALS
Dinoseb in water	<0.0010	ug/L	9/28/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	0.0015	ug/L	9/28/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0010	ug/L	9/28/2020	ALS
Mecoprop in water	0.0384	ug/L	9/28/2020	ALS
Picloram in water	<0.0050	ug/L	9/28/2020	ALS
Triclopyr in water	<0.0010	mg/L	9/28/2020	ALS
Fecal coliforms, 1:10 dilution by QT97				
Fecal Coliforms, 1:10 dilution by QT97	2760	MPN/100mL	9/28/2020	ALS
Total and E. coli, 1:10 dilution by QT97				
Escherichia Coliform by QT97	1940	MPN/100mL	9/28/2020	ALS
Total Coliforms by QT97	>24200	MPN/100mL	9/28/2020	ALS
Total Suspended Solids by Gravimetric Analysis				
Total Suspended Solids	590.0 ± 8.4%	mg/L	9/11/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis				
Total Dissolved Solid, calculated	17500	mg/L	9/11/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis				
Ammonia, total	336 ± 6.8%	mg/L	9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	15.4 ± 7.5%	mg/L	9/17/2020	COW_ASB
Organochlorine Pesticides				
alpha-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Aldrin	<0.0400	ug/L	10/7/2020	ALS
alpha-Benzenhexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/7/2020	ALS

Organochlorine Pesticides

beta-Benzenehexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/7/2020	ALS
Surrogate: Decachlorobiphenyl	15.6	%	10/7/2020	ALS
Dieldrin	<0.0400	ug/L	10/7/2020	ALS
Endosulfan I	<0.0350	ug/L	10/7/2020	ALS
Endosulfan II	<0.0350	ug/L	10/7/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/7/2020	ALS
Endrin	<0.0500	ug/L	10/7/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/7/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/7/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Heptachlor	<0.0400	ug/L	10/7/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/7/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/7/2020	ALS
Methoxychlor	<0.0800	ug/L	10/7/2020	ALS
Mirex	<0.0800	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.0200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Oxychlordane	<0.04	ug/L	10/7/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Surrogate: Tetrachloro-m-xylene	67.8	%	10/7/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/7/2020	ALS

Sample No. : 328543
Sample Description : LQ-25-R1
Sample Date : September 8, 2020
Sample Received : September 8, 2020
Sample Plan : Ad hoc sample
Sample Comments : ABSDN

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	10900 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, total to pH 4.5	10900 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2560 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	542 ± 15%	mg/L		9/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	3540 ± 6.1%	mg/L		9/14/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	21500 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.60 ± 0.07 units	units		9/8/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	10800 ± 6.5%	mg/L		9/12/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	11200 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	402.0	mg/L		9/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1130 ± 13%	mg/L		9/14/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1112 ± 13%	mg/L		9/14/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		9/13/2020	COW_ASB
Arsenic (As), total in water	0.10704 ± 8.1%	mg/L		9/13/2020	COW_ASB
Barium (Ba), total in water	0.16794 ± 11.8%	mg/L		9/13/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		9/13/2020	COW_ASB
Boron (B), total in water	8.5309 ± 24.2%	mg/L		9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		9/13/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	88.952 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.28413 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.017963 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	2.9086 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	0.000733 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	566.38 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.15899 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.59952 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	6.6212 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	637.77 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.01380 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	2108.6 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.23634 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	222	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	2550	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	154.00 ± 4.4%	NTU	9/8/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<1.5000	ug/L	9/28/2020	ALS
Surrogate: p-Terphenyl d14	21.9000	%	9/28/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	685.00	mg/L	9/28/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	581.00	mg/L	9/28/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	12.00	mg/L	9/28/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	9/28/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1390.00	mg/L	9/28/2020	ALS
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Carbons

Dissolved Inorganic Carbon	2120.0	mg/L	9/28/2020	ALS
Dissolved Organic Carbon	806.0	mg/L	9/28/2020	ALS
Total Dissolved Carbon by Calculation	2930.0	mg/L	9/28/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2290.000	mg/L	9/28/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<30.00	mg/L	9/28/2020	ALS
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CCME PAHs in mg/L

CCME PAHs in mg/L

1-Methyl Naphthalene	0.000153	mg/L	9/28/2020	ALS
2-Methyl Naphthalene	0.000229	mg/L	9/28/2020	ALS
Acenaphthene	0.000051	mg/L	9/28/2020	ALS
Acenaphthylene	<0.000020	mg/L	9/28/2020	ALS
Acridine	0.000605	mg/L	9/28/2020	ALS
Anthracene	0.000021	mg/L	9/28/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	9/28/2020	ALS
Benzo(a)anthracene	0.000016	mg/L	9/28/2020	ALS
Benzo(a)pyrene	0.0000072	mg/L	9/28/2020	ALS
Benzo(b&j)fluoranthene	0.000010	mg/L	9/28/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	9/28/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	9/28/2020	ALS
Chrysene	<0.000020	mg/L	9/28/2020	ALS
Surrogate: d10-Acenaphthene	89.9	%	9/28/2020	ALS
Surrogate: d10-Phenanthrene	91.7	%	9/28/2020	ALS
Surrogate: d12-Chrysene	66.2	%	9/28/2020	ALS
Surrogate: d8-Naphthalene	2114.0	%	9/28/2020	ALS
Surrogate: d9-Acridine (SS)	110.6	%	9/28/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	9/28/2020	ALS
Fluoranthene	0.000057	mg/L	9/28/2020	ALS
Fluorene	0.000118	mg/L	9/28/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	9/28/2020	ALS
Naphthalene	<0.004000	mg/L	9/28/2020	ALS
Phenanthrene	0.000121	mg/L	9/28/2020	ALS
Pyrene	<0.000060	mg/L	9/28/2020	ALS
Quinoline	0.000060	mg/L	9/28/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	0.13	mg/L	9/28/2020	ALS
Total Hydrocarbons (C6-C50)	0.87	mg/L	9/28/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.200	%	9/28/2020	ALS
Fraction 2 (C10-C16)	0.270	mg/L	9/28/2020	ALS
Fraction 3 (C16-C34)	0.320	mg/L	9/28/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	9/28/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	0.00111	mg/L	9/28/2020	ALS
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Cyanide

Cyanide, Total in water	0.0229	mg/L	9/28/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		9/28/2020	ALS
Mercury (Hg) dissolved in water	0.0000800	mg/L	9/28/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0000800	mg/L	9/28/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.6040	mg/L	9/28/2020	ALS
Aluminum (Al), total in water	0.7220	mg/L	9/28/2020	ALS
Antimony (Sb), dissolved in water	0.011000	mg/L	9/28/2020	ALS
Antimony (Sb), total in water	0.0118	mg/L	9/28/2020	ALS
Arsenic (As), dissolved in water	0.12300	mg/L	9/28/2020	ALS
Arsenic (As), total in water	0.12200	mg/L	9/28/2020	ALS
Barium (Ba), dissolved in water	0.1610	mg/L	9/28/2020	ALS
Barium (Ba), total in water	0.1700	mg/L	9/28/2020	ALS
Beryllium (Be), dissolved in water	<0.00100	mg/L	9/28/2020	ALS
Beryllium (Be), total in water	<0.00100	mg/L	9/28/2020	ALS
Bismuth (Bi), dissolved in water	<0.000500	mg/L	9/28/2020	ALS
Bismuth (Bi), total in water	<0.000500	mg/L	9/28/2020	ALS
Boron (B), dissolved in water	8.2100	mg/L	9/28/2020	ALS
Boron (B), total in water	9.3100	mg/L	9/28/2020	ALS
Cadmium (Cd), dissolved in water	0.000225	mg/L	9/28/2020	ALS
Cadmium (Cd), total in water	0.000303	mg/L	9/28/2020	ALS
Calcium (Ca), dissolved in water	82.7000	mg/L	9/28/2020	ALS
Calcium (Ca), total in water	89.5000	mg/L	9/28/2020	ALS
Cesium (Cs), dissolved in water	0.000600	mg/L	9/28/2020	ALS
Cesium (Cs), total in water	0.000610	mg/L	9/28/2020	ALS
Chromium (Cr), dissolved in water	0.25300	mg/L	9/28/2020	ALS
Chromium (Cr), total in water	0.28600	mg/L	9/28/2020	ALS
Cobalt (Co), dissolved in water	0.06900	mg/L	9/28/2020	ALS
Cobalt (Co), total in water	0.07420	mg/L	9/28/2020	ALS
Copper (Cu), dissolved in water	0.00860	mg/L	9/28/2020	ALS
Copper (Cu), total in water	0.01220	mg/L	9/28/2020	ALS
Hardness dissolved in water, calculated	2652.6	mg/L	9/28/2020	ALS
Hardness total in water, calculated	3003.1	mg/L	9/28/2020	ALS
Iron (Fe), dissolved in water	1.7100	mg/L	9/28/2020	ALS
Iron (Fe), total in water	1.8200	mg/L	9/28/2020	ALS
Lead (Pb), dissolved in water	0.007160	mg/L	9/28/2020	ALS
Lead (Pb), total in water	0.008960	mg/L	9/28/2020	ALS
Lithium (Li), dissolved in water	0.5120	mg/L	9/28/2020	ALS
Lithium (Li), total in water	0.5370	mg/L	9/28/2020	ALS
Magnesium (Mg), dissolved in water	594.0000	mg/L	9/28/2020	ALS
Magnesium (Mg), total in water	675.0000	mg/L	9/28/2020	ALS
Manganese (Mn), dissolved in water	0.1090	mg/L	9/28/2020	ALS
Manganese (Mn), total in water	0.1180	mg/L	9/28/2020	ALS
Molybdenum (Mo), dissolved in water	0.006290	mg/L	9/28/2020	ALS

Total Metals by ICP-MS

Molybdenum (Mo), total in water	0.006720	mg/L	9/28/2020	ALS
Nickel (Ni), dissolved in water	0.51300	mg/L	9/28/2020	ALS
Nickel (Ni), total in water	0.54900	mg/L	9/28/2020	ALS
Phosphorus (P), dissolved in water	6.570	mg/L	9/28/2020	ALS
Phosphorus (P), total in water	8.400	mg/L	9/28/2020	ALS
Potassium (K), dissolved in water	649.0000	mg/L	9/28/2020	ALS
Potassium (K), total in water	703.0000	mg/L	9/28/2020	ALS
Rubidium (Rb), dissolved in water	0.2390	mg/L	9/28/2020	ALS
Rubidium (Rb), total in water	0.2600	mg/L	9/28/2020	ALS
Selenium (Se), dissolved in water	0.002990	mg/L	9/28/2020	ALS
Selenium (Se), total in water	0.003050	mg/L	9/28/2020	ALS
Silicon (Si), dissolved in water	19.2000	mg/L	9/28/2020	ALS
Silicon (Si), total in water	20.5000	mg/L	9/28/2020	ALS
Silver (Ag), dissolved in water	0.000480	mg/L	9/28/2020	ALS
Silver (Ag), total in water	0.000400	mg/L	9/28/2020	ALS
Sodium (Na), dissolved in water	2150.0000	mg/L	9/28/2020	ALS
Sodium (Na), total in water	2390.0000	mg/L	9/28/2020	ALS
Strontium (Sr), dissolved in water	1.8300	mg/L	9/28/2020	ALS
Strontium (Sr), total in water	1.9800	mg/L	9/28/2020	ALS
Sulfur (S), dissolved in water	34.5000	mg/L	9/28/2020	ALS
Sulfur (S), total in water	43.3000	mg/L	9/28/2020	ALS
Tellurium (Te), dissolved in water	<0.00200	mg/L	9/28/2020	ALS
Tellurium (Te), total in water	<0.00200	mg/L	9/28/2020	ALS
Thallium (Tl), dissolved in water	<0.000100	mg/L	9/28/2020	ALS
Thallium (Tl), total in water	<0.000100	mg/L	9/28/2020	ALS
Thorium (Th), dissolved in water	<0.00100	mg/L	9/28/2020	ALS
Thorium (Th), total in water	<0.00100	mg/L	9/28/2020	ALS
Tin (Sn), dissolved in water	0.02630	mg/L	9/28/2020	ALS
Tin (Sn), total in water	0.03200	mg/L	9/28/2020	ALS
Titanium (Ti), dissolved in water	0.29500	mg/L	9/28/2020	ALS
Titanium (Ti), total in water	0.33400	mg/L	9/28/2020	ALS
Tungsten (W), dissolved in water	0.01280	mg/L	9/28/2020	ALS
Tungsten (W), total in water	0.00710	mg/L	9/28/2020	ALS
Uranium (U), dissolved in water	0.000240	mg/L	9/28/2020	ALS
Uranium (U), total in water	0.000140	mg/L	9/28/2020	ALS
Vanadium (V), dissolved in water	0.09180	mg/L	9/28/2020	ALS
Vanadium (V), total in water	0.09920	mg/L	9/28/2020	ALS
Zinc (Zn), dissolved in water	0.1600	mg/L	9/28/2020	ALS
Zinc (Zn), total in water	0.1950	mg/L	9/28/2020	ALS
Zirconium (Zr), dissolved in water	0.23400	mg/L	9/28/2020	ALS
Zirconium (Zr), total in water	0.20500	mg/L	9/28/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	66.300	%	9/28/2020	ALS
Surrogate: d14-Terphenyl in water	NRSUB			ALS
Diazinon in water	<0.4000	ug/L	9/28/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	<5.0	mg/L	9/28/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	9/28/2020	ALS
1,1,1-Trichloroethane	<0.00050	mg/L	9/28/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00050	mg/L	9/28/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/28/2020	ALS
1,1-Dichloroethane	<0.00050	mg/L	9/28/2020	ALS
1,1-Dichloropropene	<0.0010	mg/L	9/28/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	9/28/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	9/28/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	9/28/2020	ALS
1,2,4-Trimethylbenzene	0.0024	mg/L	9/28/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	9/28/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/28/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	9/28/2020	ALS
1,2-Dichloroethane	0.00189	mg/L	9/28/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/28/2020	ALS
1,3,5-Trimethylbenzene	<0.0010	mg/L	9/28/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/28/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	9/28/2020	ALS
1,4-Dichlorobenzene	0.00150	mg/L	9/28/2020	ALS
Surrogate: 1,4-Difluorobenzene	94.8	%	9/28/2020	ALS
2,2-Dichloropropane	<0.0010	mg/L	9/28/2020	ALS
2-Chlorotoluene	<0.02	mg/L	9/28/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.02	mg/L	9/28/2020	ALS
Surrogate: 4-Bromofluorobenzene	74.4	%	9/28/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	9/28/2020	ALS
4-Isopropyltoluene	0.0269	mg/L	9/28/2020	ALS
Acetone	2.810	mg/L	9/28/2020	ALS
Benzene	0.00611	mg/L	9/28/2020	ALS
Bromobenzene	<0.0010	mg/L	9/28/2020	ALS
Bromochloromethane	<0.0010	mg/L	9/28/2020	ALS
Bromodichloromethane	<0.00050	mg/L	9/28/2020	ALS
Bromoform	<0.0010	mg/L	9/28/2020	ALS
Bromomethane	<0.001	mg/L	9/28/2020	ALS
Carbon disulfide	0.0158	mg/L	9/28/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	9/28/2020	ALS

VOC plus F1 by GCMS

Chlorobenzene	<0.0010	mg/L	9/28/2020	ALS
Chloroethane	<0.001	mg/L	9/28/2020	ALS
Chloroform	<0.00050	mg/L	9/28/2020	ALS
Chloromethane	<0.005	mg/L	9/28/2020	ALS
cis-1,2-Dichloroethene	<0.00100	mg/L	9/28/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	9/28/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/28/2020	ALS
Dibromomethane	<0.0010	mg/L	9/28/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/28/2020	ALS
Dichloromethane	<0.00500	mg/L	9/28/2020	ALS
Ethylbenzene	0.01300	mg/L	9/28/2020	ALS
F1	0.2800	mg/L	9/28/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	9/28/2020	ALS
Hexane	<0.0010	mg/L	9/28/2020	ALS
Isopropylbenzene	<0.0010	mg/L	9/28/2020	ALS
M+P-Xylenes	0.0205	mg/L	9/28/2020	ALS
Methylethylketone [MEK]	5.01	mg/L	9/28/2020	ALS
Methylisobutylketone [MIBK]	0.03	mg/L	9/28/2020	ALS
Methyltertbutylether [MTBE]	0.0015	mg/L	9/28/2020	ALS
n-Butylbenzene	<0.0010	mg/L	9/28/2020	ALS
o-Xylene	0.0098	mg/L	9/28/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	9/28/2020	ALS
Styrene	<0.0010	mg/L	9/28/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	9/28/2020	ALS
Tetrachloroethene	<0.00050	mg/L	9/28/2020	ALS
Toluene	0.10700	mg/L	9/28/2020	ALS
trans-1,2-Dichloroethene	<0.0010	mg/L	9/28/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/28/2020	ALS
Trichloroethene	<0.00050	mg/L	9/28/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/28/2020	ALS
Vinyl Chloride	0.0007	mg/L	9/28/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/28/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.03020	mg/L	9/28/2020	ALS
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PCBs

Aroclor 1016	<0.2400	ug/L	9/28/2020	ALS
Aroclor 1221	<0.2400	ug/L	9/28/2020	ALS
Aroclor 1232	<0.2400	ug/L	9/28/2020	ALS
Aroclor 1242	<0.2400	ug/L	9/28/2020	ALS
Aroclor 1248	<0.2400	ug/L	9/28/2020	ALS

PCBs				
Aroclor 1254	<0.0600	ug/L	9/28/2020	ALS
Aroclor 1260	<0.0600	ug/L	9/28/2020	ALS
Aroclor 1262	<0.0600	ug/L	9/28/2020	ALS
Aroclor 1268	<0.0600	ug/L	9/28/2020	ALS
Total Polychlorinated Biphenyls	<0.5500	ug/L	9/28/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.446	mg/L	9/28/2020	ALS
Phenoxy Acid Herbicides				
2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	9/28/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	9/28/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	9/28/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0050	ug/L	9/28/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	57.6	%	9/28/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0010	ug/L	9/28/2020	ALS
Bromoxynil in water	<0.0050	ug/L	9/28/2020	ALS
Clopyralid in water	<0.0050	ug/L	9/28/2020	ALS
Dicamba in water	<0.0010	ug/L	9/28/2020	ALS
Dinoseb in water	<0.0050	ug/L	9/28/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	9/28/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0050	ug/L	9/28/2020	ALS
Mecoprop in water	0.1520	ug/L	9/28/2020	ALS
Picloram in water	<0.0221	ug/L	9/28/2020	ALS
Triclopyr in water	<0.0010	mg/L	9/28/2020	ALS
Fecal coliforms, 1:10 dilution by QT97				
Fecal Coliforms, 1:10 dilution by QT97	10	MPN/100mL	9/28/2020	ALS
Total and E. coli, 1:10 dilution by QT97				
Escherichia Coliform by QT97	10	MPN/100mL	9/28/2020	ALS
Total Coliforms by QT97	3080	MPN/100mL	9/28/2020	ALS
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis				
Ammonia, total	1510 ± 6.8%	mg/L	9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.117 ± 7.8%	mg/L	9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	2.05 ± 7.5%	mg/L	9/17/2020	COW_ASB
Total Nitrogen by High Temperature Combustion				
Total Nitrogen	1930 ± 15%	mg/L	10/15/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated				
Total Kjeldahl Nitrogen, calculated	1930	mg/L	10/15/2020	COW_ASB
Organochlorine Pesticides				
alpha-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Aldrin	<0.0400	ug/L	10/7/2020	ALS
alpha-Benzenhexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/7/2020	ALS

Organochlorine Pesticides

beta-Benzenehexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/7/2020	ALS
Surrogate: Decachlorobiphenyl	15.1	%	10/7/2020	ALS
Dieldrin	<0.0400	ug/L	10/7/2020	ALS
Endosulfan I	<0.0350	ug/L	10/7/2020	ALS
Endosulfan II	<0.0350	ug/L	10/7/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/7/2020	ALS
Endrin	<0.0500	ug/L	10/7/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/7/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/7/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Heptachlor	<0.0400	ug/L	10/7/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/7/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/7/2020	ALS
Methoxychlor	<0.0800	ug/L	10/7/2020	ALS
Mirex	<0.0800	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.0200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Oxychlordane	<0.04	ug/L	10/7/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Surrogate: Tetrachloro-m-xylene	60.9	%	10/7/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/7/2020	ALS

Sample No. : 328544
Sample Description : LQ-25-Leachate Tank
Sample Date : September 9, 2020
Sample Received : September 9, 2020
Sample Plan : Ad hoc sample
Sample Comments : ABSDN

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	6980 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, total to pH 4.5	6980 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1810 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	746 ± 15%	mg/L		9/15/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	5100 ± 6.1%	mg/L		9/16/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	15600 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.47 ± 0.07 units	units		9/9/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	10200 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1190	mg/L		9/21/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1190 ± 15%	mg/L		9/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1670 ± 13%	mg/L		9/14/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1679 ± 13%	mg/L		9/14/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		9/13/2020	COW_ASB
Arsenic (As), total in water	0.009027 ± 8.1%	mg/L		9/13/2020	COW_ASB
Barium (Ba), total in water	0.51346 ± 11.8%	mg/L		9/13/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		9/13/2020	COW_ASB
Boron (B), total in water	8.2427 ± 24.2%	mg/L		9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		9/13/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	401.99 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.13699 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.008893 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	19.695 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	465.59 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	2.0211 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.30524 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	9.8513 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	549.02 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.00803 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	1448.7 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.27916 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1000	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	2920	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	143.00 ± 4.4%	NTU	9/9/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<0.5000	ug/L	9/29/2020	ALS
Surrogate: p-Terphenyl d14	62.1000	%	9/29/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	458.00	mg/L	9/29/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	9/29/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	375.00	mg/L	9/29/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	9/29/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	910.00	mg/L	9/29/2020	ALS
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Carbons

Dissolved Inorganic Carbon	1320.0	mg/L	9/29/2020	ALS
Dissolved Organic Carbon	1370.0	mg/L	9/29/2020	ALS
Total Dissolved Carbon by Calculation	2690.0	mg/L	9/29/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1850.000	mg/L	9/29/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	79.00	mg/L	9/29/2020	ALS
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CCME PAHs in mg/L

CCME PAHs in mg/L

1-Methyl Naphthalene	0.001740	mg/L	9/29/2020	ALS
2-Methyl Naphthalene	0.002270	mg/L	9/29/2020	ALS
Acenaphthene	0.001770	mg/L	9/29/2020	ALS
Acenaphthylene	<0.000050	mg/L	9/29/2020	ALS
Acridine	0.000619	mg/L	9/29/2020	ALS
Anthracene	0.000317	mg/L	9/29/2020	ALS
B(a)P Total Potency Equivalent	0.000119	mg/L	9/29/2020	ALS
Benzo(a)anthracene	0.000175	mg/L	9/29/2020	ALS
Benzo(a)pyrene	0.0000728	mg/L	9/29/2020	ALS
Benzo(b&j)fluoranthene	0.000083	mg/L	9/29/2020	ALS
Benzo(g,h,i)perylene	0.000028	mg/L	9/29/2020	ALS
Benzo(k)fluoranthene	0.000033	mg/L	9/29/2020	ALS
Chrysene	0.000120	mg/L	9/29/2020	ALS
Surrogate: d10-Acenaphthene	91.1	%	9/29/2020	ALS
Surrogate: d10-Phenanthrene	106.0	%	9/29/2020	ALS
Surrogate: d12-Chrysene	94.1	%	9/29/2020	ALS
Surrogate: d8-Naphthalene	528.2	%	9/29/2020	ALS
Surrogate: d9-Acridine (SS)	124.5	%	9/29/2020	ALS
Dibenzo(a,h)anthracene	0.0000126	mg/L	9/29/2020	ALS
Fluoranthene	0.000554	mg/L	9/29/2020	ALS
Fluorene	0.001390	mg/L	9/29/2020	ALS
Indeno(1,2,3-cd)pyrene	0.000025	mg/L	9/29/2020	ALS
Naphthalene	<0.012500	mg/L	9/29/2020	ALS
Phenanthrene	0.002090	mg/L	9/29/2020	ALS
Pyrene	0.000455	mg/L	9/29/2020	ALS
Quinoline	0.000235	mg/L	9/29/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	0.40	mg/L	9/29/2020	ALS
Total Hydrocarbons (C6-C50)	0.93	mg/L	9/29/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	95.900	%	9/29/2020	ALS
Fraction 2 (C10-C16)	0.380	mg/L	9/29/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	9/29/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	9/29/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	0.00053	mg/L	9/29/2020	ALS
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Cyanide

Cyanide, Total in water	0.0133	mg/L	9/29/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		9/29/2020	ALS
Mercury (Hg) dissolved in water	<0.0000500	mg/L	9/29/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000500	mg/L	9/29/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.5450	mg/L	9/29/2020	ALS
Aluminum (Al), total in water	0.7250	mg/L	9/29/2020	ALS
Antimony (Sb), dissolved in water	0.003930	mg/L	9/29/2020	ALS
Antimony (Sb), total in water	0.0059	mg/L	9/29/2020	ALS
Arsenic (As), dissolved in water	0.03490	mg/L	9/29/2020	ALS
Arsenic (As), total in water	0.02270	mg/L	9/29/2020	ALS
Barium (Ba), dissolved in water	0.4270	mg/L	9/29/2020	ALS
Barium (Ba), total in water	0.5440	mg/L	9/29/2020	ALS
Beryllium (Be), dissolved in water	0.00013	mg/L	9/29/2020	ALS
Beryllium (Be), total in water	<0.00100	mg/L	9/29/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	9/29/2020	ALS
Bismuth (Bi), total in water	<0.000500	mg/L	9/29/2020	ALS
Boron (B), dissolved in water	7.9800	mg/L	9/29/2020	ALS
Boron (B), total in water	9.0300	mg/L	9/29/2020	ALS
Cadmium (Cd), dissolved in water	0.000090	mg/L	9/29/2020	ALS
Cadmium (Cd), total in water	0.000145	mg/L	9/29/2020	ALS
Calcium (Ca), dissolved in water	326.0000	mg/L	9/29/2020	ALS
Calcium (Ca), total in water	429.0000	mg/L	9/29/2020	ALS
Cesium (Cs), dissolved in water	0.000558	mg/L	9/29/2020	ALS
Cesium (Cs), total in water	0.000730	mg/L	9/29/2020	ALS
Chromium (Cr), dissolved in water	0.12500	mg/L	9/29/2020	ALS
Chromium (Cr), total in water	0.13200	mg/L	9/29/2020	ALS
Cobalt (Co), dissolved in water	0.04470	mg/L	9/29/2020	ALS
Cobalt (Co), total in water	0.04900	mg/L	9/29/2020	ALS
Copper (Cu), dissolved in water	0.00250	mg/L	9/29/2020	ALS
Copper (Cu), total in water	<0.00500	mg/L	9/29/2020	ALS
Hardness dissolved in water, calculated	2885.4	mg/L	9/29/2020	ALS
Hardness total in water, calculated	3303.2	mg/L	9/29/2020	ALS
Iron (Fe), dissolved in water	12.8000	mg/L	9/29/2020	ALS
Iron (Fe), total in water	20.8000	mg/L	9/29/2020	ALS
Lead (Pb), dissolved in water	0.002690	mg/L	9/29/2020	ALS
Lead (Pb), total in water	0.006740	mg/L	9/29/2020	ALS
Lithium (Li), dissolved in water	0.3060	mg/L	9/29/2020	ALS
Lithium (Li), total in water	0.4190	mg/L	9/29/2020	ALS
Magnesium (Mg), dissolved in water	503.0000	mg/L	9/29/2020	ALS
Magnesium (Mg), total in water	542.0000	mg/L	9/29/2020	ALS
Manganese (Mn), dissolved in water	2.1500	mg/L	9/29/2020	ALS
Manganese (Mn), total in water	2.0700	mg/L	9/29/2020	ALS
Molybdenum (Mo), dissolved in water	0.004280	mg/L	9/29/2020	ALS

Total Metals by ICP-MS

Molybdenum (Mo), total in water	0.006350	mg/L	9/29/2020	ALS
Nickel (Ni), dissolved in water	0.25500	mg/L	9/29/2020	ALS
Nickel (Ni), total in water	0.28200	mg/L	9/29/2020	ALS
Phosphorus (P), dissolved in water	14.200	mg/L	9/29/2020	ALS
Phosphorus (P), total in water	12.100	mg/L	9/29/2020	ALS
Potassium (K), dissolved in water	571.0000	mg/L	9/29/2020	ALS
Potassium (K), total in water	587.0000	mg/L	9/29/2020	ALS
Rubidium (Rb), dissolved in water	0.2140	mg/L	9/29/2020	ALS
Rubidium (Rb), total in water	0.2020	mg/L	9/29/2020	ALS
Selenium (Se), dissolved in water	0.002900	mg/L	9/29/2020	ALS
Selenium (Se), total in water	0.001570	mg/L	9/29/2020	ALS
Silicon (Si), dissolved in water	27.7000	mg/L	9/29/2020	ALS
Silicon (Si), total in water	25.7000	mg/L	9/29/2020	ALS
Silver (Ag), dissolved in water	0.000070	mg/L	9/29/2020	ALS
Silver (Ag), total in water	<0.000100	mg/L	9/29/2020	ALS
Sodium (Na), dissolved in water	1490.0000	mg/L	9/29/2020	ALS
Sodium (Na), total in water	1560.0000	mg/L	9/29/2020	ALS
Strontium (Sr), dissolved in water	4.0700	mg/L	9/29/2020	ALS
Strontium (Sr), total in water	5.5300	mg/L	9/29/2020	ALS
Sulfur (S), dissolved in water	61.4000	mg/L	9/29/2020	ALS
Sulfur (S), total in water	66.1000	mg/L	9/29/2020	ALS
Tellurium (Te), dissolved in water	0.00024	mg/L	9/29/2020	ALS
Tellurium (Te), total in water	<0.00200	mg/L	9/29/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	9/29/2020	ALS
Thallium (Tl), total in water	<0.000100	mg/L	9/29/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
Thorium (Th), total in water	<0.00100	mg/L	9/29/2020	ALS
Tin (Sn), dissolved in water	0.01160	mg/L	9/29/2020	ALS
Tin (Sn), total in water	0.02280	mg/L	9/29/2020	ALS
Titanium (Ti), dissolved in water	0.06150	mg/L	9/29/2020	ALS
Titanium (Ti), total in water	0.06820	mg/L	9/29/2020	ALS
Tungsten (W), dissolved in water	0.00541	mg/L	9/29/2020	ALS
Tungsten (W), total in water	0.00450	mg/L	9/29/2020	ALS
Uranium (U), dissolved in water	0.000490	mg/L	9/29/2020	ALS
Uranium (U), total in water	0.000820	mg/L	9/29/2020	ALS
Vanadium (V), dissolved in water	0.02020	mg/L	9/29/2020	ALS
Vanadium (V), total in water	0.02110	mg/L	9/29/2020	ALS
Zinc (Zn), dissolved in water	0.1280	mg/L	9/29/2020	ALS
Zinc (Zn), total in water	0.2330	mg/L	9/29/2020	ALS
Zirconium (Zr), dissolved in water	0.03600	mg/L	9/29/2020	ALS
Zirconium (Zr), total in water	0.04140	mg/L	9/29/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	67.600	%	9/29/2020	ALS
Surrogate: d14-Terphenyl in water	50.800	%	9/29/2020	ALS
Diazinon in water	<0.1000	ug/L	9/29/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	25.2	mg/L	9/29/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	9/29/2020	ALS
1,1,1-Trichloroethane	0.00051	mg/L	9/29/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00100	mg/L	9/29/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1-Dichloroethane	0.00482	mg/L	9/29/2020	ALS
1,1-Dichloropropene	<0.0020	mg/L	9/29/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,2,4-Trimethylbenzene	0.0081	mg/L	9/29/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	9/29/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/29/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	9/29/2020	ALS
1,2-Dichloroethane	0.00307	mg/L	9/29/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,3,5-Trimethylbenzene	0.0025	mg/L	9/29/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,4-Dichlorobenzene	0.00400	mg/L	9/29/2020	ALS
Surrogate: 1,4-Difluorobenzene	93.6	%	9/29/2020	ALS
2,2-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
2-Chlorotoluene	<0.02	mg/L	9/29/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.02	mg/L	9/29/2020	ALS
Surrogate: 4-Bromofluorobenzene	76.1	%	9/29/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	9/29/2020	ALS
4-Isopropyltoluene	0.0077	mg/L	9/29/2020	ALS
Acetone	1.870	mg/L	9/29/2020	ALS
Benzene	0.00294	mg/L	9/29/2020	ALS
Bromobenzene	<0.0010	mg/L	9/29/2020	ALS
Bromochloromethane	<0.0010	mg/L	9/29/2020	ALS
Bromodichloromethane	<0.00050	mg/L	9/29/2020	ALS
Bromoform	<0.0010	mg/L	9/29/2020	ALS
Bromomethane	<0.001	mg/L	9/29/2020	ALS
Carbon disulfide	<0.0050	mg/L	9/29/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	9/29/2020	ALS

VOC plus F1 by GCMS

Chlorobenzene	0.0023	mg/L	9/29/2020	ALS
Chloroethane	0.006	mg/L	9/29/2020	ALS
Chloroform	<0.00050	mg/L	9/29/2020	ALS
Chloromethane	<0.005	mg/L	9/29/2020	ALS
cis-1,2-Dichloroethene	0.00110	mg/L	9/29/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	9/29/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/29/2020	ALS
Dibromomethane	<0.0010	mg/L	9/29/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/29/2020	ALS
Dichloromethane	0.01220	mg/L	9/29/2020	ALS
Ethylbenzene	0.01980	mg/L	9/29/2020	ALS
F1	0.5500	mg/L	9/29/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	9/29/2020	ALS
Hexane	<0.0010	mg/L	9/29/2020	ALS
Isopropylbenzene	<0.0010	mg/L	9/29/2020	ALS
M+P-Xylenes	0.0821	mg/L	9/29/2020	ALS
Methylethylketone [MEK]	3.67	mg/L	9/29/2020	ALS
Methylisobutylketone [MIBK]	0.18	mg/L	9/29/2020	ALS
Methyltertbutylether [MTBE]	0.0019	mg/L	9/29/2020	ALS
n-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
o-Xylene	0.0353	mg/L	9/29/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
Styrene	<0.0010	mg/L	9/29/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
Tetrachloroethene	<0.00050	mg/L	9/29/2020	ALS
Toluene	0.01430	mg/L	9/29/2020	ALS
trans-1,2-Dichloroethene	<0.0010	mg/L	9/29/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/29/2020	ALS
Trichloroethene	<0.00050	mg/L	9/29/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/29/2020	ALS
Vinyl Chloride	0.0005	mg/L	9/29/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/29/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.11700	mg/L	9/29/2020	ALS
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PCBs

Aroclor 1016	<0.3100	ug/L	9/29/2020	ALS
Aroclor 1221	<0.3100	ug/L	9/29/2020	ALS
Aroclor 1232	<0.3100	ug/L	9/29/2020	ALS
Aroclor 1242	<0.3100	ug/L	9/29/2020	ALS
Aroclor 1248	<0.3100	ug/L	9/29/2020	ALS

PCBs				
Aroclor 1254	<0.0400	ug/L	9/29/2020	ALS
Aroclor 1260	<0.0400	ug/L	9/29/2020	ALS
Aroclor 1262	<0.0400	ug/L	9/29/2020	ALS
Aroclor 1268	<0.0400	ug/L	9/29/2020	ALS
Total Polychlorinated Biphenyls	<0.7000	ug/L	9/29/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.680	mg/L	9/29/2020	ALS
Phenoxy Acid Herbicides				
2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	9/29/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	9/29/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	0.0029	ug/L	9/29/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0050	ug/L	9/29/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	59.8	%	9/29/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	0.0020	ug/L	9/29/2020	ALS
Bromoxynil in water	<0.0050	ug/L	9/29/2020	ALS
Clopyralid in water	<0.0050	ug/L	9/29/2020	ALS
Dicamba in water	<0.0010	ug/L	9/29/2020	ALS
Dinoseb in water	<0.0050	ug/L	9/29/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	9/29/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0050	ug/L	9/29/2020	ALS
Mecoprop in water	0.1530	ug/L	9/29/2020	ALS
Picloram in water	<0.0050	ug/L	9/29/2020	ALS
Triclopyr in water	<0.0010	mg/L	9/29/2020	ALS
Fecal coliforms, 1:10 dilution by QT97				
Fecal Coliforms, 1:10 dilution by QT97	240	MPN/100mL	9/29/2020	ALS
Total and E. coli, 1:10 dilution by QT97				
Escherichia Coliform by QT97	220	MPN/100mL	9/29/2020	ALS
Total Coliforms by QT97	9800	MPN/100mL	9/29/2020	ALS
Total Suspended Solids by Gravimetric Analysis				
Total Suspended Solids, calculated	784.0	mg/L	9/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis				
Total Dissolved Solid	9430 ± 6.5%	mg/L	9/12/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis				
Ammonia, total	933 ± 6.8%	mg/L	9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L	9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	3.30 ± 7.5%	mg/L	9/17/2020	COW_ASB
Organochlorine Pesticides				
alpha-Chlordane	<0.0400	ug/L	10/8/2020	ALS
Aldrin	<0.0400	ug/L	10/8/2020	ALS
alpha-Benzenhexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/8/2020	ALS

Organochlorine Pesticides

beta-Benzenehexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/8/2020	ALS
Surrogate: Decachlorobiphenyl	5.2	%	10/8/2020	ALS
Dieldrin	<0.0400	ug/L	10/8/2020	ALS
Endosulfan I	<0.0350	ug/L	10/8/2020	ALS
Endosulfan II	<0.0350	ug/L	10/8/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/8/2020	ALS
Endrin	<0.0500	ug/L	10/8/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/8/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/8/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/8/2020	ALS
Heptachlor	<0.0400	ug/L	10/8/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/8/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/8/2020	ALS
Methoxychlor	<0.4000	ug/L	10/8/2020	ALS
Mirex	<0.4000	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Oxychlordane	<0.04	ug/L	10/8/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Surrogate: Tetrachloro-m-xylene	73.5	%	10/8/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/8/2020	ALS

Sample No. : 328545
Sample Description : LQ-25-MHBIO1
Sample Date : September 9, 2020
Sample Received : September 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	74.2 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, total to pH 4.5	74.2 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	14.8 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	29.6 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	4 ± 15%	mg/L		9/15/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	130 ± 6.1%	mg/L		9/14/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	327 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.31 ± 0.07 units	units		9/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	304 ± 6.5%	mg/L		9/12/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	328 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	24.0	mg/L		9/14/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	14.9 ± 15%	mg/L		10/15/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	2.93	mg/L		10/15/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	58.0 ± 13%	mg/L		9/11/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	14.9 ± 13%	mg/L		9/11/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		9/13/2020	COW_ASB
Arsenic (As), total in water	0.001170 ± 8.1%	mg/L		9/13/2020	COW_ASB
Barium (Ba), total in water	0.038981 ± 11.8%	mg/L		9/13/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/13/2020	COW_ASB
Boron (B), total in water	0.02515 ± 24.2%	mg/L	9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/13/2020	COW_ASB
Calcium (Ca), total in water	22.588 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.00602 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.016667 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	0.20462 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	0.000352 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	8.624 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.03421 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.003323 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	1.1658 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	21.038 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.00061 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	5.434 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.04505 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	56.4	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	91.9	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	4.62 ± 4.4%	NTU	9/9/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<0.5000	ug/L	9/29/2020	ALS
Surrogate: p-Terphenyl d14	78.0000	%	9/29/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	79.10	mg/L	9/29/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	9/29/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	64.80	mg/L	9/29/2020	ALS
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Carbons

Dissolved Inorganic Carbon	19.2	mg/L	9/29/2020	ALS
Dissolved Organic Carbon	35.0	mg/L	9/29/2020	ALS
Total Dissolved Carbon by Calculation	54.0	mg/L	9/29/2020	ALS

Ammonia by colour

Ammonia, total (as N) in water	5.80	mg/L	9/29/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	12.400	mg/L	9/29/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	24.20	mg/L	9/29/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	9/29/2020	ALS
2-Methyl Naphthalene	<0.000020	mg/L	9/29/2020	ALS
Acenaphthene	<0.000020	mg/L	9/29/2020	ALS
Acenaphthylene	<0.000020	mg/L	9/29/2020	ALS
Acridine	<0.000020	mg/L	9/29/2020	ALS
Anthracene	<0.000010	mg/L	9/29/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	9/29/2020	ALS
Benzo(a)anthracene	<0.000010	mg/L	9/29/2020	ALS
Benzo(a)pyrene	<0.0000050	mg/L	9/29/2020	ALS
Benzo(b&j)fluoranthene	<0.000010	mg/L	9/29/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	9/29/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	9/29/2020	ALS
Chrysene	<0.000020	mg/L	9/29/2020	ALS
Surrogate: d10-Acenaphthene	98.1	%	9/29/2020	ALS
Surrogate: d10-Phenanthrene	107.4	%	9/29/2020	ALS
Surrogate: d12-Chrysene	99.1	%	9/29/2020	ALS
Surrogate: d8-Naphthalene	97.5	%	9/29/2020	ALS
Surrogate: d9-Acridine (SS)	98.8	%	9/29/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	9/29/2020	ALS
Fluoranthene	<0.000020	mg/L	9/29/2020	ALS
Fluorene	<0.000020	mg/L	9/29/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	9/29/2020	ALS
Naphthalene	<0.000050	mg/L	9/29/2020	ALS
Phenanthrene	<0.000050	mg/L	9/29/2020	ALS
Pyrene	0.000018	mg/L	9/29/2020	ALS
Quinoline	<0.000020	mg/L	9/29/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	9/29/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	9/29/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	93.800	%	9/29/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	9/29/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	9/29/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	9/29/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	9/29/2020	ALS
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Cyanide

Cyanide, Total in water	0.0035	mg/L	9/29/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		9/29/2020	ALS
Mercury (Hg) dissolved in water	<0.0000050	mg/L	9/29/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0000050	mg/L	9/29/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0319	mg/L	9/29/2020	ALS
Aluminum (Al), total in water	0.0464	mg/L	9/29/2020	ALS
Antimony (Sb), dissolved in water	0.000860	mg/L	9/29/2020	ALS
Antimony (Sb), total in water	0.0009	mg/L	9/29/2020	ALS
Arsenic (As), dissolved in water	0.00221	mg/L	9/29/2020	ALS
Arsenic (As), total in water	0.00219	mg/L	9/29/2020	ALS
Barium (Ba), dissolved in water	0.0389	mg/L	9/29/2020	ALS
Barium (Ba), total in water	0.0414	mg/L	9/29/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
Beryllium (Be), total in water	<0.00010	mg/L	9/29/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	9/29/2020	ALS
Bismuth (Bi), total in water	<0.000050	mg/L	9/29/2020	ALS
Boron (B), dissolved in water	0.0450	mg/L	9/29/2020	ALS
Boron (B), total in water	0.0450	mg/L	9/29/2020	ALS
Cadmium (Cd), dissolved in water	0.000042	mg/L	9/29/2020	ALS
Cadmium (Cd), total in water	0.000049	mg/L	9/29/2020	ALS
Calcium (Ca), dissolved in water	26.6000	mg/L	9/29/2020	ALS
Calcium (Ca), total in water	25.8000	mg/L	9/29/2020	ALS
Cesium (Cs), dissolved in water	0.000018	mg/L	9/29/2020	ALS
Cesium (Cs), total in water	0.000020	mg/L	9/29/2020	ALS
Chromium (Cr), dissolved in water	0.00064	mg/L	9/29/2020	ALS
Chromium (Cr), total in water	0.00065	mg/L	9/29/2020	ALS
Cobalt (Co), dissolved in water	0.00081	mg/L	9/29/2020	ALS
Cobalt (Co), total in water	0.00085	mg/L	9/29/2020	ALS
Copper (Cu), dissolved in water	0.00939	mg/L	9/29/2020	ALS
Copper (Cu), total in water	0.01140	mg/L	9/29/2020	ALS
Hardness dissolved in water, calculated	110.9	mg/L	9/29/2020	ALS
Hardness total in water, calculated	104.7	mg/L	9/29/2020	ALS
Iron (Fe), dissolved in water	0.1340	mg/L	9/29/2020	ALS
Iron (Fe), total in water	0.1680	mg/L	9/29/2020	ALS
Lead (Pb), dissolved in water	0.000592	mg/L	9/29/2020	ALS
Lead (Pb), total in water	0.000705	mg/L	9/29/2020	ALS
Lithium (Li), dissolved in water	0.0084	mg/L	9/29/2020	ALS
Lithium (Li), total in water	0.0088	mg/L	9/29/2020	ALS
Magnesium (Mg), dissolved in water	10.8000	mg/L	9/29/2020	ALS
Magnesium (Mg), total in water	9.7800	mg/L	9/29/2020	ALS
Manganese (Mn), dissolved in water	0.0324	mg/L	9/29/2020	ALS
Manganese (Mn), total in water	0.0328	mg/L	9/29/2020	ALS
Molybdenum (Mo), dissolved in water	0.001620	mg/L	9/29/2020	ALS

Total Metals by ICP-MS

Molybdenum (Mo), total in water	0.001580	mg/L	9/29/2020	ALS
Nickel (Ni), dissolved in water	0.00299	mg/L	9/29/2020	ALS
Nickel (Ni), total in water	0.00318	mg/L	9/29/2020	ALS
Phosphorus (P), dissolved in water	1.260	mg/L	9/29/2020	ALS
Phosphorus (P), total in water	1.220	mg/L	9/29/2020	ALS
Potassium (K), dissolved in water	25.1000	mg/L	9/29/2020	ALS
Potassium (K), total in water	21.5000	mg/L	9/29/2020	ALS
Rubidium (Rb), dissolved in water	0.0085	mg/L	9/29/2020	ALS
Rubidium (Rb), total in water	0.0080	mg/L	9/29/2020	ALS
Selenium (Se), dissolved in water	0.000386	mg/L	9/29/2020	ALS
Selenium (Se), total in water	0.000427	mg/L	9/29/2020	ALS
Silicon (Si), dissolved in water	2.1100	mg/L	9/29/2020	ALS
Silicon (Si), total in water	2.0400	mg/L	9/29/2020	ALS
Silver (Ag), dissolved in water	0.000015	mg/L	9/29/2020	ALS
Silver (Ag), total in water	0.000020	mg/L	9/29/2020	ALS
Sodium (Na), dissolved in water	6.1100	mg/L	9/29/2020	ALS
Sodium (Na), total in water	5.2800	mg/L	9/29/2020	ALS
Strontium (Sr), dissolved in water	0.0872	mg/L	9/29/2020	ALS
Strontium (Sr), total in water	0.0819	mg/L	9/29/2020	ALS
Sulfur (S), dissolved in water	9.0200	mg/L	9/29/2020	ALS
Sulfur (S), total in water	8.7600	mg/L	9/29/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	9/29/2020	ALS
Tellurium (Te), total in water	<0.00020	mg/L	9/29/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	9/29/2020	ALS
Thallium (Tl), total in water	<0.000010	mg/L	9/29/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
Thorium (Th), total in water	<0.00010	mg/L	9/29/2020	ALS
Tin (Sn), dissolved in water	0.00014	mg/L	9/29/2020	ALS
Tin (Sn), total in water	0.00031	mg/L	9/29/2020	ALS
Titanium (Ti), dissolved in water	0.00157	mg/L	9/29/2020	ALS
Titanium (Ti), total in water	0.00195	mg/L	9/29/2020	ALS
Tungsten (W), dissolved in water	0.00012	mg/L	9/29/2020	ALS
Tungsten (W), total in water	0.00013	mg/L	9/29/2020	ALS
Uranium (U), dissolved in water	0.000304	mg/L	9/29/2020	ALS
Uranium (U), total in water	0.000345	mg/L	9/29/2020	ALS
Vanadium (V), dissolved in water	0.00293	mg/L	9/29/2020	ALS
Vanadium (V), total in water	0.00319	mg/L	9/29/2020	ALS
Zinc (Zn), dissolved in water	0.0331	mg/L	9/29/2020	ALS
Zinc (Zn), total in water	0.0333	mg/L	9/29/2020	ALS
Zirconium (Zr), dissolved in water	0.00055	mg/L	9/29/2020	ALS
Zirconium (Zr), total in water	0.00036	mg/L	9/29/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	71.600	%	9/29/2020	ALS
Surrogate: d14-Terphenyl in water	78.900	%	9/29/2020	ALS
Diazinon in water	<0.1000	ug/L	9/29/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	<5.0	mg/L	9/29/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	9/29/2020	ALS
1,1,1-Trichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1-Dichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1-Dichloropropene	<0.0010	mg/L	9/29/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,2,4-Trimethylbenzene	<0.0010	mg/L	9/29/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	9/29/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/29/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	9/29/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,3,5-Trimethylbenzene	<0.0010	mg/L	9/29/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	9/29/2020	ALS
Surrogate: 1,4-Difluorobenzene	89.8	%	9/29/2020	ALS
2,2-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
2-Chlorotoluene	<0.02	mg/L	9/29/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.02	mg/L	9/29/2020	ALS
Surrogate: 4-Bromofluorobenzene	75.2	%	9/29/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	9/29/2020	ALS
4-Isopropyltoluene	<0.0010	mg/L	9/29/2020	ALS
Acetone	<0.050	mg/L	9/29/2020	ALS
Benzene	<0.00050	mg/L	9/29/2020	ALS
Bromobenzene	<0.0010	mg/L	9/29/2020	ALS
Bromochloromethane	<0.0010	mg/L	9/29/2020	ALS
Bromodichloromethane	<0.00050	mg/L	9/29/2020	ALS
Bromoform	<0.0010	mg/L	9/29/2020	ALS
Bromomethane	<0.001	mg/L	9/29/2020	ALS
Carbon disulfide	<0.0050	mg/L	9/29/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	9/29/2020	ALS

VOC plus F1 by GCMS

Chlorobenzene	<0.0010	mg/L	9/29/2020	ALS
Chloroethane	<0.001	mg/L	9/29/2020	ALS
Chloroform	<0.00050	mg/L	9/29/2020	ALS
Chloromethane	<0.005	mg/L	9/29/2020	ALS
cis-1,2-Dichloroethene	<0.00100	mg/L	9/29/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	9/29/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/29/2020	ALS
Dibromomethane	<0.0010	mg/L	9/29/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/29/2020	ALS
Dichloromethane	<0.00500	mg/L	9/29/2020	ALS
Ethylbenzene	<0.00050	mg/L	9/29/2020	ALS
F1	<0.1000	mg/L	9/29/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	9/29/2020	ALS
Hexane	<0.0010	mg/L	9/29/2020	ALS
Isopropylbenzene	<0.0010	mg/L	9/29/2020	ALS
M+P-Xylenes	<0.0004	mg/L	9/29/2020	ALS
Methylethylketone [MEK]	<0.02	mg/L	9/29/2020	ALS
Methylisobutylketone [MIBK]	<0.02	mg/L	9/29/2020	ALS
Methytertbutylether [MTBE]	<0.0005	mg/L	9/29/2020	ALS
n-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
o-Xylene	<0.0005	mg/L	9/29/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
Styrene	<0.0010	mg/L	9/29/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
Tetrachloroethene	<0.00050	mg/L	9/29/2020	ALS
Toluene	<0.00050	mg/L	9/29/2020	ALS
trans-1,2-Dichloroethene	<0.0010	mg/L	9/29/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/29/2020	ALS
Trichloroethene	<0.00050	mg/L	9/29/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/29/2020	ALS
Vinyl Chloride	<0.0005	mg/L	9/29/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/29/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	9/29/2020	ALS
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PCBs

Aroclor 1016	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1221	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1232	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1242	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1248	<0.0200	ug/L	9/29/2020	ALS

PCBs				
Aroclor 1254	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1260	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1262	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1268	<0.0200	ug/L	9/29/2020	ALS
Total Polychlorinated Biphenyls	<0.0600	ug/L	9/29/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.001	mg/L	9/29/2020	ALS
Phenoxy Acid Herbicides				
2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	9/29/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	9/29/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	0.0011	ug/L	9/29/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0010	ug/L	9/29/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	66.1	%	9/29/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	9/29/2020	ALS
Bromoxynil in water	<0.0010	ug/L	9/29/2020	ALS
Clopyralid in water	<0.0010	ug/L	9/29/2020	ALS
Dicamba in water	<0.0001	ug/L	9/29/2020	ALS
Dinoseb in water	<0.0010	ug/L	9/29/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	9/29/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0010	ug/L	9/29/2020	ALS
Mecoprop in water	<0.0010	ug/L	9/29/2020	ALS
Picloram in water	<0.0010	ug/L	9/29/2020	ALS
Triclopyr in water	<0.0001	mg/L	9/29/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	>2420	MPN/100mL	9/29/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	435	MPN/100mL	9/29/2020	ALS
Total Coliforms by QT97	>2420	MPN/100mL	9/29/2020	ALS
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis				
Ammonia, total	6.73 ± 6.8%	mg/L	9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	12.0 ± 7.8%	mg/L	9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	1.29 ± 7.5%	mg/L	9/17/2020	COW_ASB
Alkalinity, Carbonate				
Alkalinity, carbonate	<0.60	mg/L	9/29/2020	ALS
Organochlorine Pesticides				
alpha-Chlordane	<0.0400	ug/L	10/8/2020	ALS
Aldrin	<0.0400	ug/L	10/8/2020	ALS
alpha-Benzenhexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/8/2020	ALS
beta-Benzenhexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/8/2020	ALS

Organochlorine Pesticides

Surrogate: Decachlorobiphenyl	79.4	%	10/8/2020	ALS
Dieldrin	<0.0400	ug/L	10/8/2020	ALS
Endosulfan I	<0.0350	ug/L	10/8/2020	ALS
Endosulfan II	<0.0350	ug/L	10/8/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/8/2020	ALS
Endrin	<0.0500	ug/L	10/8/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/8/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/8/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/8/2020	ALS
Heptachlor	<0.0400	ug/L	10/8/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/8/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/8/2020	ALS
Methoxychlor	<0.0400	ug/L	10/8/2020	ALS
Mirex	<0.0400	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Oxychlordane	<0.04	ug/L	10/8/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Surrogate: Tetrachloro-m-xylene	88.2	%	10/8/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/8/2020	ALS

Sample No. : 328546
Sample Description : LQ-25-100
Sample Date : September 8, 2020
Sample Received : September 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	10600 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, total to pH 4.5	10600 ± 2.8%	mg/L		9/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/9/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2160 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	465 ± 15%	mg/L		9/14/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	3410 ± 6.1%	mg/L		9/14/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	20800 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.61 ± 0.07 units	units		9/8/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	10900 ± 6.5%	mg/L		9/12/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	11100 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	258.0	mg/L		9/14/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	1930 ± 15%	mg/L		10/15/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	1930	mg/L		10/15/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1050 ± 13%	mg/L		9/14/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1100 ± 13%	mg/L		9/14/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		9/13/2020	COW_ASB
Arsenic (As), total in water	0.11197 ± 8.1%	mg/L		9/13/2020	COW_ASB
Barium (Ba), total in water	0.16351 ± 11.8%	mg/L		9/13/2020	COW_ASB

Metals Total in Water by ICP-MS

Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/13/2020	COW_ASB
Boron (B), total in water	8.4695 ± 24.2%	mg/L	9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/13/2020	COW_ASB
Calcium (Ca), total in water	86.100 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.28915 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.011392 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	2.0487 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	0.000661 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	591.84 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.11628 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.61207 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	7.9162 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	657.57 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	0.01084 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	2216.0 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.23014 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	215	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	2650	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	154.00 ± 4.4%	NTU	9/8/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<1.5000	ug/L	9/28/2020	ALS
Surrogate: p-Terphenyl d14	21.3000	%	9/28/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	678.00	mg/L	9/28/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	578.00	mg/L	9/28/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	13.30	mg/L	9/28/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	9/28/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1550.00	mg/L	9/28/2020	ALS
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Carbons

Dissolved Inorganic Carbon	2050.0	mg/L	9/28/2020	ALS
Dissolved Organic Carbon	904.0	mg/L	9/28/2020	ALS
Total Dissolved Carbon by Calculation	2950.0	mg/L	9/28/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2410.000	mg/L	9/28/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<30.00	mg/L	9/28/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	0.000158	mg/L	9/28/2020	ALS
2-Methyl Naphthalene	0.000238	mg/L	9/28/2020	ALS
Acenaphthene	0.000052	mg/L	9/28/2020	ALS
Acenaphthylene	<0.000020	mg/L	9/28/2020	ALS
Acridine	0.000633	mg/L	9/28/2020	ALS
Anthracene	0.000029	mg/L	9/28/2020	ALS
B(a)P Total Potency Equivalent	<0.000030	mg/L	9/28/2020	ALS
Benzo(a)anthracene	0.000019	mg/L	9/28/2020	ALS
Benzo(a)pyrene	0.0000093	mg/L	9/28/2020	ALS
Benzo(b&j)fluoranthene	0.000013	mg/L	9/28/2020	ALS
Benzo(g,h,i)perylene	<0.000020	mg/L	9/28/2020	ALS
Benzo(k)fluoranthene	<0.000010	mg/L	9/28/2020	ALS
Chrysene	<0.000025	mg/L	9/28/2020	ALS
Surrogate: d10-Acenaphthene	98.0	%	9/28/2020	ALS
Surrogate: d10-Phenanthrene	102.5	%	9/28/2020	ALS
Surrogate: d12-Chrysene	78.1	%	9/28/2020	ALS
Surrogate: d8-Naphthalene	2106.0	%	9/28/2020	ALS
Surrogate: d9-Acridine (SS)	120.7	%	9/28/2020	ALS
Dibenzo(a,h)anthracene	<0.0000050	mg/L	9/28/2020	ALS
Fluoranthene	0.000063	mg/L	9/28/2020	ALS
Fluorene	0.000124	mg/L	9/28/2020	ALS
Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	9/28/2020	ALS
Naphthalene	<0.004000	mg/L	9/28/2020	ALS
Phenanthrene	0.000127	mg/L	9/28/2020	ALS
Pyrene	<0.000070	mg/L	9/28/2020	ALS
Quinoline	0.000043	mg/L	9/28/2020	ALS

CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	0.12	mg/L	9/28/2020	ALS
Total Hydrocarbons (C6-C50)	0.67	mg/L	9/28/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	92.600	%	9/28/2020	ALS
Fraction 2 (C10-C16)	0.390	mg/L	9/28/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	9/28/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	9/28/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	0.00109	mg/L	9/28/2020	ALS
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Cyanide

Cyanide, Total in water	0.0230	mg/L	9/28/2020	ALS
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Mercury in Water

Mercury in Water

Dissolved Mercury Filtration Location	FIELD		9/28/2020	ALS
Mercury (Hg) dissolved in water	<0.0000500	mg/L	9/28/2020	ALS
Mercury (Hg) total in water	0.0000800	mg/L	9/28/2020	ALS

Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.4640	mg/L	9/28/2020	ALS
Aluminum (Al), total in water	0.7290	mg/L	9/28/2020	ALS
Antimony (Sb), dissolved in water	0.010100	mg/L	9/28/2020	ALS
Antimony (Sb), total in water	0.0116	mg/L	9/28/2020	ALS
Arsenic (As), dissolved in water	0.11700	mg/L	9/28/2020	ALS
Arsenic (As), total in water	0.12400	mg/L	9/28/2020	ALS
Barium (Ba), dissolved in water	0.1480	mg/L	9/28/2020	ALS
Barium (Ba), total in water	0.1710	mg/L	9/28/2020	ALS
Beryllium (Be), dissolved in water	<0.00100	mg/L	9/28/2020	ALS
Beryllium (Be), total in water	<0.00100	mg/L	9/28/2020	ALS
Bismuth (Bi), dissolved in water	<0.000500	mg/L	9/28/2020	ALS
Bismuth (Bi), total in water	<0.000500	mg/L	9/28/2020	ALS
Boron (B), dissolved in water	8.1200	mg/L	9/28/2020	ALS
Boron (B), total in water	9.3700	mg/L	9/28/2020	ALS
Cadmium (Cd), dissolved in water	0.000065	mg/L	9/28/2020	ALS
Cadmium (Cd), total in water	0.000306	mg/L	9/28/2020	ALS
Calcium (Ca), dissolved in water	79.8000	mg/L	9/28/2020	ALS
Calcium (Ca), total in water	87.8000	mg/L	9/28/2020	ALS
Cesium (Cs), dissolved in water	0.000630	mg/L	9/28/2020	ALS
Cesium (Cs), total in water	0.000630	mg/L	9/28/2020	ALS
Chromium (Cr), dissolved in water	0.24300	mg/L	9/28/2020	ALS
Chromium (Cr), total in water	0.27800	mg/L	9/28/2020	ALS
Cobalt (Co), dissolved in water	0.06650	mg/L	9/28/2020	ALS
Cobalt (Co), total in water	0.07400	mg/L	9/28/2020	ALS
Copper (Cu), dissolved in water	<0.00200	mg/L	9/28/2020	ALS
Copper (Cu), total in water	0.01220	mg/L	9/28/2020	ALS
Hardness dissolved in water, calculated	2616.5	mg/L	9/28/2020	ALS
Hardness total in water, calculated	3015.4	mg/L	9/28/2020	ALS
Iron (Fe), dissolved in water	1.2600	mg/L	9/28/2020	ALS
Iron (Fe), total in water	1.8500	mg/L	9/28/2020	ALS
Lead (Pb), dissolved in water	0.000780	mg/L	9/28/2020	ALS
Lead (Pb), total in water	0.008730	mg/L	9/28/2020	ALS
Lithium (Li), dissolved in water	0.5120	mg/L	9/28/2020	ALS
Lithium (Li), total in water	0.5360	mg/L	9/28/2020	ALS
Magnesium (Mg), dissolved in water	587.0000	mg/L	9/28/2020	ALS
Magnesium (Mg), total in water	679.0000	mg/L	9/28/2020	ALS
Manganese (Mn), dissolved in water	0.1030	mg/L	9/28/2020	ALS

Total Metals by ICP-MS

Manganese (Mn), total in water	0.1150	mg/L	9/28/2020	ALS
Molybdenum (Mo), dissolved in water	0.004280	mg/L	9/28/2020	ALS
Molybdenum (Mo), total in water	0.006610	mg/L	9/28/2020	ALS
Nickel (Ni), dissolved in water	0.50200	mg/L	9/28/2020	ALS
Nickel (Ni), total in water	0.55100	mg/L	9/28/2020	ALS
Phosphorus (P), dissolved in water	5.260	mg/L	9/28/2020	ALS
Phosphorus (P), total in water	8.530	mg/L	9/28/2020	ALS
Potassium (K), dissolved in water	655.0000	mg/L	9/28/2020	ALS
Potassium (K), total in water	711.0000	mg/L	9/28/2020	ALS
Rubidium (Rb), dissolved in water	0.2390	mg/L	9/28/2020	ALS
Rubidium (Rb), total in water	0.2650	mg/L	9/28/2020	ALS
Selenium (Se), dissolved in water	0.002270	mg/L	9/28/2020	ALS
Selenium (Se), total in water	0.002800	mg/L	9/28/2020	ALS
Silicon (Si), dissolved in water	19.1000	mg/L	9/28/2020	ALS
Silicon (Si), total in water	21.1000	mg/L	9/28/2020	ALS
Silver (Ag), dissolved in water	0.000430	mg/L	9/28/2020	ALS
Silver (Ag), total in water	0.000380	mg/L	9/28/2020	ALS
Sodium (Na), dissolved in water	2200.0000	mg/L	9/28/2020	ALS
Sodium (Na), total in water	2430.0000	mg/L	9/28/2020	ALS
Strontium (Sr), dissolved in water	1.8800	mg/L	9/28/2020	ALS
Strontium (Sr), total in water	2.0000	mg/L	9/28/2020	ALS
Sulfur (S), dissolved in water	33.6000	mg/L	9/28/2020	ALS
Sulfur (S), total in water	43.3000	mg/L	9/28/2020	ALS
Tellurium (Te), dissolved in water	<0.00200	mg/L	9/28/2020	ALS
Tellurium (Te), total in water	<0.00200	mg/L	9/28/2020	ALS
Thallium (Tl), dissolved in water	<0.000100	mg/L	9/28/2020	ALS
Thallium (Tl), total in water	<0.000100	mg/L	9/28/2020	ALS
Thorium (Th), dissolved in water	<0.00100	mg/L	9/28/2020	ALS
Thorium (Th), total in water	<0.00100	mg/L	9/28/2020	ALS
Tin (Sn), dissolved in water	0.01900	mg/L	9/28/2020	ALS
Tin (Sn), total in water	0.03190	mg/L	9/28/2020	ALS
Titanium (Ti), dissolved in water	0.25200	mg/L	9/28/2020	ALS
Titanium (Ti), total in water	0.33600	mg/L	9/28/2020	ALS
Tungsten (W), dissolved in water	0.00730	mg/L	9/28/2020	ALS
Tungsten (W), total in water	0.00670	mg/L	9/28/2020	ALS
Uranium (U), dissolved in water	<0.000100	mg/L	9/28/2020	ALS
Uranium (U), total in water	0.000130	mg/L	9/28/2020	ALS
Vanadium (V), dissolved in water	0.09020	mg/L	9/28/2020	ALS
Vanadium (V), total in water	0.09950	mg/L	9/28/2020	ALS
Zinc (Zn), dissolved in water	0.0150	mg/L	9/28/2020	ALS
Zinc (Zn), total in water	0.1870	mg/L	9/28/2020	ALS

Total Metals by ICP-MS

Zirconium (Zr), dissolved in water	0.24800	mg/L	9/28/2020	ALS
Zirconium (Zr), total in water	0.20700	mg/L	9/28/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	62.000	%	9/28/2020	ALS
Surrogate: d14-Terphenyl in water	NRSUB			ALS
Diazinon in water	<0.3500	ug/L	9/28/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	5.8	mg/L	9/28/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	9/28/2020	ALS
1,1,1-Trichloroethane	<0.00050	mg/L	9/28/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00050	mg/L	9/28/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/28/2020	ALS
1,1-Dichloroethane	<0.00050	mg/L	9/28/2020	ALS
1,1-Dichloropropene	<0.0010	mg/L	9/28/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	9/28/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	9/28/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	9/28/2020	ALS
1,2,4-Trimethylbenzene	0.0024	mg/L	9/28/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	9/28/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/28/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	9/28/2020	ALS
1,2-Dichloroethane	0.00202	mg/L	9/28/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/28/2020	ALS
1,3,5-Trimethylbenzene	<0.0010	mg/L	9/28/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/28/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	9/28/2020	ALS
1,4-Dichlorobenzene	0.00150	mg/L	9/28/2020	ALS
Surrogate: 1,4-Difluorobenzene	95.0	%	9/28/2020	ALS
2,2-Dichloropropane	<0.0010	mg/L	9/28/2020	ALS
2-Chlorotoluene	<0.02	mg/L	9/28/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.02	mg/L	9/28/2020	ALS
Surrogate: 4-Bromofluorobenzene	77.0	%	9/28/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	9/28/2020	ALS
4-Isopropyltoluene	0.0262	mg/L	9/28/2020	ALS
Acetone	2.720	mg/L	9/28/2020	ALS
Benzene	0.00612	mg/L	9/28/2020	ALS
Bromobenzene	<0.0010	mg/L	9/28/2020	ALS
Bromochloromethane	<0.0010	mg/L	9/28/2020	ALS
Bromodichloromethane	<0.00050	mg/L	9/28/2020	ALS
Bromoform	<0.0010	mg/L	9/28/2020	ALS

VOC plus F1 by GCMS

Bromomethane	<0.001	mg/L	9/28/2020	ALS
Carbon disulfide	0.0151	mg/L	9/28/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	9/28/2020	ALS
Chlorobenzene	<0.0010	mg/L	9/28/2020	ALS
Chloroethane	<0.001	mg/L	9/28/2020	ALS
Chloroform	<0.00050	mg/L	9/28/2020	ALS
Chloromethane	<0.005	mg/L	9/28/2020	ALS
cis-1,2-Dichloroethene	<0.00100	mg/L	9/28/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	9/28/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/28/2020	ALS
Dibromomethane	<0.0010	mg/L	9/28/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/28/2020	ALS
Dichloromethane	<0.00500	mg/L	9/28/2020	ALS
Ethylbenzene	0.01310	mg/L	9/28/2020	ALS
F1	0.2800	mg/L	9/28/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	9/28/2020	ALS
Hexane	<0.0010	mg/L	9/28/2020	ALS
Isopropylbenzene	<0.0010	mg/L	9/28/2020	ALS
M+P-Xylenes	0.0202	mg/L	9/28/2020	ALS
Methylethylketone [MEK]	4.86	mg/L	9/28/2020	ALS
Methylisobutylketone [MIBK]	0.03	mg/L	9/28/2020	ALS
Methyltertbutylether [MTBE]	0.0015	mg/L	9/28/2020	ALS
n-Butylbenzene	<0.0010	mg/L	9/28/2020	ALS
o-Xylene	0.0098	mg/L	9/28/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	9/28/2020	ALS
Styrene	<0.0010	mg/L	9/28/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	9/28/2020	ALS
Tetrachloroethene	<0.00050	mg/L	9/28/2020	ALS
Toluene	0.10800	mg/L	9/28/2020	ALS
trans-1,2-Dichloroethene	<0.0010	mg/L	9/28/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/28/2020	ALS
Trichloroethene	<0.00050	mg/L	9/28/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/28/2020	ALS
Vinyl Chloride	0.0006	mg/L	9/28/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/28/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	0.03000	mg/L	9/28/2020	ALS
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PCBs

Aroclor 1016	<0.2200	ug/L	9/28/2020	ALS
Aroclor 1221	<0.2200	ug/L	9/28/2020	ALS

PCBs				
Aroclor 1232	<0.2200	ug/L	9/28/2020	ALS
Aroclor 1242	<0.2200	ug/L	9/28/2020	ALS
Aroclor 1248	<0.2200	ug/L	9/28/2020	ALS
Aroclor 1254	<0.0400	ug/L	9/28/2020	ALS
Aroclor 1260	<0.0400	ug/L	9/28/2020	ALS
Aroclor 1262	<0.0400	ug/L	9/28/2020	ALS
Aroclor 1268	<0.0400	ug/L	9/28/2020	ALS
Total Polychlorinated Biphenyls	<0.5000	ug/L	9/28/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	0.432	mg/L	9/28/2020	ALS
Phenoxy Acid Herbicides				
2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0010	ug/L	9/28/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0010	ug/L	9/28/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0010	ug/L	9/28/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0050	ug/L	9/28/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	56.1	%	9/28/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0010	ug/L	9/28/2020	ALS
Bromoxynil in water	<0.0050	ug/L	9/28/2020	ALS
Clopyralid in water	<0.0050	ug/L	9/28/2020	ALS
Dicamba in water	<0.0010	ug/L	9/28/2020	ALS
Dinoseb in water	<0.0050	ug/L	9/28/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0010	ug/L	9/28/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0050	ug/L	9/28/2020	ALS
Mecoprop in water	0.1360	ug/L	9/28/2020	ALS
Picloram in water	<0.0648	ug/L	9/28/2020	ALS
Triclopyr in water	<0.0010	mg/L	9/28/2020	ALS
Fecal coliforms, 1:10 dilution by QT97				
Fecal Coliforms, 1:10 dilution by QT97	10	MPN/100mL	9/28/2020	ALS
Total and E. coli, 1:10 dilution by QT97				
Escherichia Coliform by QT97	30	MPN/100mL	9/28/2020	ALS
Total Coliforms by QT97	2760	MPN/100mL	9/28/2020	ALS
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis				
Ammonia, total	1420 ± 6.8%	mg/L	9/17/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.025 ± 7.8%	mg/L	9/17/2020	COW_ASB
Phosphorus, dissolved (0.45um)	1.26 ± 7.5%	mg/L	9/17/2020	COW_ASB
Organochlorine Pesticides				
alpha-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Aldrin	<0.0400	ug/L	10/7/2020	ALS
alpha-Benzenhexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/7/2020	ALS

Organochlorine Pesticides

beta-Benzenehexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/7/2020	ALS
Surrogate: Decachlorobiphenyl	41.9	%	10/7/2020	ALS
Dieldrin	<0.0400	ug/L	10/7/2020	ALS
Endosulfan I	<0.0700	ug/L	10/7/2020	ALS
Endosulfan II	<0.0700	ug/L	10/7/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/7/2020	ALS
Endrin	<0.0500	ug/L	10/7/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/7/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/7/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/7/2020	ALS
Heptachlor	<0.0400	ug/L	10/7/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/7/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/7/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/7/2020	ALS
Methoxychlor	<0.0400	ug/L	10/7/2020	ALS
Mirex	<0.0400	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.0200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Oxychlordane	<0.04	ug/L	10/7/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/7/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/7/2020	ALS
Surrogate: Tetrachloro-m-xylene	68.2	%	10/7/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/7/2020	ALS

Sample No. : 328547
Sample Description : LQ-25-TripBlank
Sample Date : September 9, 2020
Sample Received : September 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, total to pH 4.5	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.046 ± 16.9%	mg/L		9/15/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.031 ± 7.8%	mg/L		9/15/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		9/15/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		9/15/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		9/14/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2.4 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.30 ± 0.07 units	units		9/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	17 ± 6.5%	mg/L		9/12/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	14 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	<3.0	mg/L		9/14/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.2 ± 15%	mg/L		10/15/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.20	mg/L		10/15/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	0.8 ± 13%	mg/L		9/11/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.7 ± 13%	mg/L		9/11/2020	COW_ASB

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	9/13/2020	COW_ASB
Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L	9/13/2020	COW_ASB
Barium (Ba), total in water	<0.000014 ± 11.8%	mg/L	9/13/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/13/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L	9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/13/2020	COW_ASB
Calcium (Ca), total in water	0.111 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.00511 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.004262 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	0.02535 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	0.038 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.00181 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.000057 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	0.0082 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	0.092 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	0.584 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.01964 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	<0.4	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	0.4	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	1.67 ± 4.4%	NTU	9/9/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<0.5000	ug/L	9/29/2020	ALS
Surrogate: p-Terphenyl d14	84.5000	%	9/29/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	1.80	mg/L	9/29/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	9/29/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	1.50	mg/L	9/29/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	9/29/2020	ALS
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Carbons

Dissolved Inorganic Carbon	<0.5	mg/L	9/29/2020	ALS
Dissolved Organic Carbon	<0.5	mg/L	9/29/2020	ALS
Total Dissolved Carbon by Calculation	<1.0	mg/L	9/29/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	<0.500	mg/L	9/29/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<0.30	mg/L	9/29/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	9/29/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	9/29/2020	ALS
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Acenaphthene	<0.000020	mg/L	9/29/2020	ALS
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Acenaphthylene	<0.000020	mg/L	9/29/2020	ALS
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Acridine	<0.000020	mg/L	9/29/2020	ALS
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Anthracene	<0.000010	mg/L	9/29/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	9/29/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	9/29/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	9/29/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	9/29/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	9/29/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	9/29/2020	ALS
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Chrysene	<0.000020	mg/L	9/29/2020	ALS
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Surrogate: d10-Acenaphthene	85.4	%	9/29/2020	ALS
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Surrogate: d10-Phenanthrene	100.3	%	9/29/2020	ALS
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Surrogate: d12-Chrysene	99.0	%	9/29/2020	ALS
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Surrogate: d8-Naphthalene	81.4	%	9/29/2020	ALS
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Surrogate: d9-Acridine (SS)	85.9	%	9/29/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	9/29/2020	ALS
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Fluoranthene	<0.000020	mg/L	9/29/2020	ALS
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Fluorene	<0.000020	mg/L	9/29/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	9/29/2020	ALS
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Naphthalene	<0.000050	mg/L	9/29/2020	ALS
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Phenanthrene	<0.000050	mg/L	9/29/2020	ALS
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Pyrene	<0.000010	mg/L	9/29/2020	ALS
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Quinoline	<0.000020	mg/L	9/29/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	9/29/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	9/29/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	87.600	%	9/29/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	9/29/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	9/29/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	9/29/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	9/29/2020	ALS
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Cyanide

Cyanide

Cyanide, Total in water	<0.0010	mg/L	9/29/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		9/29/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	9/29/2020	ALS
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Mercury (Hg) total in water	<0.0000050	mg/L	9/29/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	9/29/2020	ALS
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Aluminum (Al), total in water	<0.0030	mg/L	9/29/2020	ALS
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Antimony (Sb), dissolved in water	<0.000100	mg/L	9/29/2020	ALS
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Antimony (Sb), total in water	<0.0001	mg/L	9/29/2020	ALS
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Arsenic (As), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
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Arsenic (As), total in water	<0.00010	mg/L	9/29/2020	ALS
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Barium (Ba), dissolved in water	0.0002	mg/L	9/29/2020	ALS
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Barium (Ba), total in water	<0.0001	mg/L	9/29/2020	ALS
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Beryllium (Be), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
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Beryllium (Be), total in water	<0.00010	mg/L	9/29/2020	ALS
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Bismuth (Bi), dissolved in water	<0.000050	mg/L	9/29/2020	ALS
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Bismuth (Bi), total in water	<0.000050	mg/L	9/29/2020	ALS
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Boron (B), dissolved in water	0.0150	mg/L	9/29/2020	ALS
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Boron (B), total in water	<0.0100	mg/L	9/29/2020	ALS
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Cadmium (Cd), dissolved in water	<0.000005	mg/L	9/29/2020	ALS
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Cadmium (Cd), total in water	<0.000005	mg/L	9/29/2020	ALS
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Calcium (Ca), dissolved in water	<0.0500	mg/L	9/29/2020	ALS
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Calcium (Ca), total in water	<0.0500	mg/L	9/29/2020	ALS
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Cesium (Cs), dissolved in water	<0.000010	mg/L	9/29/2020	ALS
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Cesium (Cs), total in water	<0.000010	mg/L	9/29/2020	ALS
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Chromium (Cr), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
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Chromium (Cr), total in water	<0.00010	mg/L	9/29/2020	ALS
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Cobalt (Co), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
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Cobalt (Co), total in water	<0.00010	mg/L	9/29/2020	ALS
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Copper (Cu), dissolved in water	<0.00020	mg/L	9/29/2020	ALS
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Copper (Cu), total in water	<0.00050	mg/L	9/29/2020	ALS
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Hardness dissolved in water, calculated	<0.1	mg/L	9/29/2020	ALS
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Hardness total in water, calculated	<0.1	mg/L	9/29/2020	ALS
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Iron (Fe), dissolved in water	<0.0100	mg/L	9/29/2020	ALS
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Iron (Fe), total in water	<0.0100	mg/L	9/29/2020	ALS
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Lead (Pb), dissolved in water	<0.000050	mg/L	9/29/2020	ALS
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Lead (Pb), total in water	<0.000050	mg/L	9/29/2020	ALS
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Lithium (Li), dissolved in water	<0.0010	mg/L	9/29/2020	ALS
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Lithium (Li), total in water	<0.0010	mg/L	9/29/2020	ALS
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Magnesium (Mg), dissolved in water	<0.0050	mg/L	9/29/2020	ALS
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Total Metals by ICP-MS

Magnesium (Mg), total in water	<0.0050	mg/L	9/29/2020	ALS
Manganese (Mn), dissolved in water	<0.0001	mg/L	9/29/2020	ALS
Manganese (Mn), total in water	<0.0001	mg/L	9/29/2020	ALS
Molybdenum (Mo), dissolved in water	<0.000050	mg/L	9/29/2020	ALS
Molybdenum (Mo), total in water	<0.000050	mg/L	9/29/2020	ALS
Nickel (Ni), dissolved in water	<0.00050	mg/L	9/29/2020	ALS
Nickel (Ni), total in water	<0.00050	mg/L	9/29/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	9/29/2020	ALS
Phosphorus (P), total in water	<0.030	mg/L	9/29/2020	ALS
Potassium (K), dissolved in water	<0.0500	mg/L	9/29/2020	ALS
Potassium (K), total in water	<0.0500	mg/L	9/29/2020	ALS
Rubidium (Rb), dissolved in water	<0.0002	mg/L	9/29/2020	ALS
Rubidium (Rb), total in water	<0.0002	mg/L	9/29/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	9/29/2020	ALS
Selenium (Se), total in water	<0.000050	mg/L	9/29/2020	ALS
Silicon (Si), dissolved in water	0.0620	mg/L	9/29/2020	ALS
Silicon (Si), total in water	<0.1000	mg/L	9/29/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	9/29/2020	ALS
Silver (Ag), total in water	<0.000010	mg/L	9/29/2020	ALS
Sodium (Na), dissolved in water	<0.0500	mg/L	9/29/2020	ALS
Sodium (Na), total in water	<0.0500	mg/L	9/29/2020	ALS
Strontium (Sr), dissolved in water	<0.0001	mg/L	9/29/2020	ALS
Strontium (Sr), total in water	<0.0002	mg/L	9/29/2020	ALS
Sulfur (S), dissolved in water	<0.5000	mg/L	9/29/2020	ALS
Sulfur (S), total in water	<0.5000	mg/L	9/29/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	9/29/2020	ALS
Tellurium (Te), total in water	<0.00020	mg/L	9/29/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	9/29/2020	ALS
Thallium (Tl), total in water	<0.000010	mg/L	9/29/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
Thorium (Th), total in water	<0.00010	mg/L	9/29/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
Tin (Sn), total in water	<0.00010	mg/L	9/29/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	9/29/2020	ALS
Titanium (Ti), total in water	<0.00030	mg/L	9/29/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
Tungsten (W), total in water	<0.00010	mg/L	9/29/2020	ALS
Uranium (U), dissolved in water	<0.000010	mg/L	9/29/2020	ALS
Uranium (U), total in water	<0.000010	mg/L	9/29/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	9/29/2020	ALS
Vanadium (V), total in water	<0.00050	mg/L	9/29/2020	ALS

Total Metals by ICP-MS

Zinc (Zn), dissolved in water	<0.0010	mg/L	9/29/2020	ALS
Zinc (Zn), total in water	<0.0030	mg/L	9/29/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	9/29/2020	ALS
Zirconium (Zr), total in water	<0.00020	mg/L	9/29/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	73.800	%	9/29/2020	ALS
Surrogate: d14-Terphenyl in water	84.000	%	9/29/2020	ALS
Diazinon in water	<0.1000	ug/L	9/29/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	<5.0	mg/L	9/29/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	9/29/2020	ALS
1,1,1-Trichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1-Dichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1-Dichloropropene	<0.0010	mg/L	9/29/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,2,4-Trimethylbenzene	<0.0010	mg/L	9/29/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	9/29/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/29/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	9/29/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,3,5-Trimethylbenzene	<0.0010	mg/L	9/29/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	9/29/2020	ALS
Surrogate: 1,4-Difluorobenzene	92.2	%	9/29/2020	ALS
2,2-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
2-Chlorotoluene	<0.02	mg/L	9/29/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.02	mg/L	9/29/2020	ALS
Surrogate: 4-Bromofluorobenzene	73.9	%	9/29/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	9/29/2020	ALS
4-Isopropyltoluene	<0.0010	mg/L	9/29/2020	ALS
Acetone	<0.050	mg/L	9/29/2020	ALS
Benzene	<0.00050	mg/L	9/29/2020	ALS
Bromobenzene	<0.0010	mg/L	9/29/2020	ALS
Bromochloromethane	<0.0010	mg/L	9/29/2020	ALS

VOC plus F1 by GCMS

Bromodichloromethane	<0.00050	mg/L	9/29/2020	ALS
Bromoform	<0.0010	mg/L	9/29/2020	ALS
Bromomethane	<0.001	mg/L	9/29/2020	ALS
Carbon disulfide	<0.0050	mg/L	9/29/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	9/29/2020	ALS
Chlorobenzene	<0.0010	mg/L	9/29/2020	ALS
Chloroethane	<0.001	mg/L	9/29/2020	ALS
Chloroform	0.00086	mg/L	9/29/2020	ALS
Chloromethane	<0.005	mg/L	9/29/2020	ALS
cis-1,2-Dichloroethene	<0.00100	mg/L	9/29/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	9/29/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/29/2020	ALS
Dibromomethane	<0.0010	mg/L	9/29/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/29/2020	ALS
Dichloromethane	<0.00500	mg/L	9/29/2020	ALS
Ethylbenzene	<0.00050	mg/L	9/29/2020	ALS
F1	<0.1000	mg/L	9/29/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	9/29/2020	ALS
Hexane	<0.0010	mg/L	9/29/2020	ALS
Isopropylbenzene	<0.0010	mg/L	9/29/2020	ALS
M+P-Xylenes	<0.0004	mg/L	9/29/2020	ALS
Methylethylketone [MEK]	<0.02	mg/L	9/29/2020	ALS
Methylisobutylketone [MIBK]	<0.02	mg/L	9/29/2020	ALS
Methytertbutylether [MTBE]	<0.0005	mg/L	9/29/2020	ALS
n-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
o-Xylene	<0.0005	mg/L	9/29/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
Styrene	<0.0010	mg/L	9/29/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
Tetrachloroethene	<0.00050	mg/L	9/29/2020	ALS
Toluene	<0.00050	mg/L	9/29/2020	ALS
trans-1,2-Dichloroethene	<0.0010	mg/L	9/29/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	9/29/2020	ALS
Trichloroethene	<0.00050	mg/L	9/29/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/29/2020	ALS
Vinyl Chloride	<0.0005	mg/L	9/29/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	9/29/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	9/29/2020	ALS
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PCBs

PCBs				
Aroclor 1016	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1221	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1232	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1242	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1248	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1254	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1260	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1262	<0.0200	ug/L	9/29/2020	ALS
Aroclor 1268	<0.0200	ug/L	9/29/2020	ALS
Total Polychlorinated Biphenyls	<0.0600	ug/L	9/29/2020	ALS
Phenol (4AAP)				
Phenols (4AAP) in water	<0.001	mg/L	9/29/2020	ALS
Phenoxy Acid Herbicides				
2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	9/29/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	9/29/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	9/29/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	9/29/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	94.2	%	9/29/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	9/29/2020	ALS
Bromoxynil in water	<0.0001	ug/L	9/29/2020	ALS
Clopyralid in water	<0.0001	ug/L	9/29/2020	ALS
Dicamba in water	<0.0001	ug/L	9/29/2020	ALS
Dinoseb in water	<0.0001	ug/L	9/29/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	9/29/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	9/29/2020	ALS
Mecoprop in water	<0.0001	ug/L	9/29/2020	ALS
Picloram in water	<0.0001	ug/L	9/29/2020	ALS
Triclopyr in water	<0.0001	mg/L	9/29/2020	ALS
Fecal Coliform by MPN QT97				
Fecal Coliform by QT97	<1	MPN/100mL	9/29/2020	ALS
Total Coliform and E.coli QT97				
Escherichia Coliform by QT97	<1	MPN/100mL	9/29/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	9/29/2020	ALS
Ammonia by colour				
Ammonia, total (as N) in water	<0.01	mg/L	9/29/2020	ALS
Organochlorine Pesticides				
alpha-Chlordane	<0.0400	ug/L	10/8/2020	ALS
Aldrin	<0.0400	ug/L	10/8/2020	ALS
alpha-Benzenhexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L	10/8/2020	ALS

Organochlorine Pesticides

beta-Benzenehexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/8/2020	ALS
Surrogate: Decachlorobiphenyl	101.1	%	10/8/2020	ALS
Dieldrin	<0.0400	ug/L	10/8/2020	ALS
Endosulfan I	<0.0350	ug/L	10/8/2020	ALS
Endosulfan II	<0.0350	ug/L	10/8/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/8/2020	ALS
Endrin	<0.0500	ug/L	10/8/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/8/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/8/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/8/2020	ALS
Heptachlor	<0.0400	ug/L	10/8/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/8/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/8/2020	ALS
Methoxychlor	<0.0400	ug/L	10/8/2020	ALS
Mirex	<0.0400	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Oxychlordane	<0.04	ug/L	10/8/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Surrogate: Tetrachloro-m-xylene	76.1	%	10/8/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/8/2020	ALS

Sample No. : 328548
Sample Description : LQ-25-FieldBlank
Sample Date : September 9, 2020
Sample Received : September 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, total to pH 4.5	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/11/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.066 ± 16.9%	mg/L		9/15/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.027 ± 7.8%	mg/L		9/15/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		9/15/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		9/13/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		9/13/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		9/15/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		9/14/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1.6 ± 7.2%	uS		9/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.14 ± 0.07 units	units		9/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	13 ± 6.5%	mg/L		9/12/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	26 ± 6.2%	mg/L		9/11/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	13.0	mg/L		9/14/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		10/14/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		10/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	0.6 ± 13%	mg/L		9/11/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.5 ± 13%	mg/L		9/11/2020	COW_ASB

Metals Total in Water by ICP-MS

Antimony (Sb), total in water	0.001174 ± 9.2%	mg/L	9/13/2020	COW_ASB
Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L	9/13/2020	COW_ASB
Barium (Ba), total in water	0.000383 ± 11.8%	mg/L	9/13/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	9/13/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L	9/13/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	9/13/2020	COW_ASB
Calcium (Ca), total in water	0.128 ± 20.9%	mg/L	9/13/2020	COW_ASB
Chromium (Cr), total in water	0.00500 ± 12.8%	mg/L	9/13/2020	COW_ASB
Copper (Cu), total in water	0.004474 ± 12.1%	mg/L	9/13/2020	COW_ASB
Iron (Fe), total in water	0.03780 ± 9.7%	mg/L	9/13/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	9/13/2020	COW_ASB
Magnesium (Mg), total in water	0.046 ± 10.5%	mg/L	9/13/2020	COW_ASB
Manganese (Mn), total in water	0.00116 ± 11.2%	mg/L	9/13/2020	COW_ASB
Nickel (Ni), total in water	0.000224 ± 12.2%	mg/L	9/13/2020	COW_ASB
Phosphorus (P), total in water	0.0048 ± 4.5%	mg/L	9/13/2020	COW_ASB
Potassium (K), total in water	0.112 ± 18.3%	mg/L	9/13/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	9/13/2020	COW_ASB
Sodium (Na), total in water	0.568 ± 9.2%	mg/L	9/13/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	9/13/2020	COW_ASB
Zinc (Zn), total in water	0.01523 ± 10.7%	mg/L	9/13/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	<0.4	mg/L	9/14/2020	COW_ASB
Total Hardness, calculated in water	0.5	mg/L	9/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	1.19 ± 4.4%	NTU	9/9/2020	COW_ASB
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4,4'-Methylenebis(2-chloroaniline)

4,4'-Methylenebis(2-chloroaniline)	<0.5000	ug/L	9/29/2020	ALS
Surrogate: p-Terphenyl d14	85.0000	%	9/29/2020	ALS

Alkalinity, Bicarbonate

Alkalinity, bicarbonate	2.00	mg/L	9/29/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	9/29/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	1.60	mg/L	9/29/2020	ALS
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Carbons

Dissolved Inorganic Carbon	<0.1	mg/L	9/29/2020	ALS
Dissolved Organic Carbon	1.6	mg/L	9/29/2020	ALS
Total Dissolved Carbon by Calculation	1.6	mg/L	9/29/2020	ALS

Ammonia by colour

Ammonia, total (as N) in water	<0.01	mg/L	9/29/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	<0.500	mg/L	9/29/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<0.30	mg/L	9/29/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	9/29/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	9/29/2020	ALS
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Acenaphthene	<0.000020	mg/L	9/29/2020	ALS
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Acenaphthylene	<0.000020	mg/L	9/29/2020	ALS
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Acridine	<0.000020	mg/L	9/29/2020	ALS
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Anthracene	<0.000010	mg/L	9/29/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	9/29/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	9/29/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	9/29/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	9/29/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	9/29/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	9/29/2020	ALS
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Chrysene	<0.000020	mg/L	9/29/2020	ALS
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Surrogate: d10-Acenaphthene	92.7	%	9/29/2020	ALS
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Surrogate: d10-Phenanthrene	103.1	%	9/29/2020	ALS
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Surrogate: d12-Chrysene	101.5	%	9/29/2020	ALS
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Surrogate: d8-Naphthalene	92.7	%	9/29/2020	ALS
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Surrogate: d9-Acridine (SS)	92.4	%	9/29/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	9/29/2020	ALS
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Fluoranthene	<0.000020	mg/L	9/29/2020	ALS
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Fluorene	<0.000020	mg/L	9/29/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	9/29/2020	ALS
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Naphthalene	<0.000050	mg/L	9/29/2020	ALS
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Phenanthrene	<0.000050	mg/L	9/29/2020	ALS
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Pyrene	<0.000010	mg/L	9/29/2020	ALS
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Quinoline	<0.000020	mg/L	9/29/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	9/29/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	9/29/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	87.500	%	9/29/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	9/29/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	9/29/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	9/29/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	9/29/2020	ALS
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Cyanide

Cyanide

Cyanide, Total in water	<0.0010	mg/L	9/29/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		9/29/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	9/29/2020	ALS
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Mercury (Hg) total in water	<0.0000050	mg/L	9/29/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0013	mg/L	9/29/2020	ALS
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Aluminum (Al), total in water	<0.0030	mg/L	9/29/2020	ALS
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Antimony (Sb), dissolved in water	<0.000100	mg/L	9/29/2020	ALS
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Antimony (Sb), total in water	<0.0001	mg/L	9/29/2020	ALS
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Arsenic (As), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
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Arsenic (As), total in water	<0.00010	mg/L	9/29/2020	ALS
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Barium (Ba), dissolved in water	0.0001	mg/L	9/29/2020	ALS
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Barium (Ba), total in water	0.0001	mg/L	9/29/2020	ALS
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Beryllium (Be), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
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Beryllium (Be), total in water	<0.00010	mg/L	9/29/2020	ALS
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Bismuth (Bi), dissolved in water	<0.000050	mg/L	9/29/2020	ALS
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Bismuth (Bi), total in water	<0.000050	mg/L	9/29/2020	ALS
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Boron (B), dissolved in water	<0.0100	mg/L	9/29/2020	ALS
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Boron (B), total in water	<0.0100	mg/L	9/29/2020	ALS
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Cadmium (Cd), dissolved in water	<0.000005	mg/L	9/29/2020	ALS
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Cadmium (Cd), total in water	<0.000005	mg/L	9/29/2020	ALS
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Calcium (Ca), dissolved in water	0.2820	mg/L	9/29/2020	ALS
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Calcium (Ca), total in water	0.2240	mg/L	9/29/2020	ALS
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Cesium (Cs), dissolved in water	<0.000010	mg/L	9/29/2020	ALS
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Cesium (Cs), total in water	<0.000010	mg/L	9/29/2020	ALS
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Chromium (Cr), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
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Chromium (Cr), total in water	<0.00010	mg/L	9/29/2020	ALS
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Cobalt (Co), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
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Cobalt (Co), total in water	<0.00010	mg/L	9/29/2020	ALS
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Copper (Cu), dissolved in water	<0.00020	mg/L	9/29/2020	ALS
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Copper (Cu), total in water	<0.00050	mg/L	9/29/2020	ALS
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Hardness dissolved in water, calculated	<0.7	mg/L	9/29/2020	ALS
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Hardness total in water, calculated	0.8	mg/L	9/29/2020	ALS
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Iron (Fe), dissolved in water	<0.0100	mg/L	9/29/2020	ALS
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Iron (Fe), total in water	<0.0100	mg/L	9/29/2020	ALS
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Lead (Pb), dissolved in water	<0.000050	mg/L	9/29/2020	ALS
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Lead (Pb), total in water	0.000052	mg/L	9/29/2020	ALS
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Lithium (Li), dissolved in water	<0.0010	mg/L	9/29/2020	ALS
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Lithium (Li), total in water	<0.0010	mg/L	9/29/2020	ALS
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Magnesium (Mg), dissolved in water	<0.0050	mg/L	9/29/2020	ALS
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Total Metals by ICP-MS

Magnesium (Mg), total in water	0.0583	mg/L	9/29/2020	ALS
Manganese (Mn), dissolved in water	<0.0001	mg/L	9/29/2020	ALS
Manganese (Mn), total in water	0.0001	mg/L	9/29/2020	ALS
Molybdenum (Mo), dissolved in water	<0.000050	mg/L	9/29/2020	ALS
Molybdenum (Mo), total in water	<0.000050	mg/L	9/29/2020	ALS
Nickel (Ni), dissolved in water	<0.00050	mg/L	9/29/2020	ALS
Nickel (Ni), total in water	<0.00050	mg/L	9/29/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	9/29/2020	ALS
Phosphorus (P), total in water	<0.030	mg/L	9/29/2020	ALS
Potassium (K), dissolved in water	<0.0500	mg/L	9/29/2020	ALS
Potassium (K), total in water	<0.0500	mg/L	9/29/2020	ALS
Rubidium (Rb), dissolved in water	<0.0002	mg/L	9/29/2020	ALS
Rubidium (Rb), total in water	<0.0002	mg/L	9/29/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	9/29/2020	ALS
Selenium (Se), total in water	<0.000050	mg/L	9/29/2020	ALS
Silicon (Si), dissolved in water	0.1350	mg/L	9/29/2020	ALS
Silicon (Si), total in water	<0.1000	mg/L	9/29/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	9/29/2020	ALS
Silver (Ag), total in water	<0.000010	mg/L	9/29/2020	ALS
Sodium (Na), dissolved in water	0.3140	mg/L	9/29/2020	ALS
Sodium (Na), total in water	0.3850	mg/L	9/29/2020	ALS
Strontium (Sr), dissolved in water	<0.0001	mg/L	9/29/2020	ALS
Strontium (Sr), total in water	0.0011	mg/L	9/29/2020	ALS
Sulfur (S), dissolved in water	<0.5000	mg/L	9/29/2020	ALS
Sulfur (S), total in water	<0.5000	mg/L	9/29/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	9/29/2020	ALS
Tellurium (Te), total in water	<0.00020	mg/L	9/29/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	9/29/2020	ALS
Thallium (Tl), total in water	<0.000010	mg/L	9/29/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
Thorium (Th), total in water	<0.00010	mg/L	9/29/2020	ALS
Tin (Sn), dissolved in water	0.00011	mg/L	9/29/2020	ALS
Tin (Sn), total in water	0.00012	mg/L	9/29/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	9/29/2020	ALS
Titanium (Ti), total in water	<0.00030	mg/L	9/29/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	9/29/2020	ALS
Tungsten (W), total in water	<0.00010	mg/L	9/29/2020	ALS
Uranium (U), dissolved in water	0.000030	mg/L	9/29/2020	ALS
Uranium (U), total in water	0.000037	mg/L	9/29/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	9/29/2020	ALS
Vanadium (V), total in water	<0.00050	mg/L	9/29/2020	ALS

Total Metals by ICP-MS

Zinc (Zn), dissolved in water	0.0014	mg/L	9/29/2020	ALS
Zinc (Zn), total in water	<0.0030	mg/L	9/29/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	9/29/2020	ALS
Zirconium (Zr), total in water	<0.00020	mg/L	9/29/2020	ALS

Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	89.800	%	9/29/2020	ALS
Surrogate: d14-Terphenyl in water	100.800	%	9/29/2020	ALS
Diazinon in water	<0.1000	ug/L	9/29/2020	ALS

Oil & Grease - Gravimetric

Oil and Grease in water	<5.0	mg/L	9/29/2020	ALS
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VOC plus F1 by GCMS

1,1,1,2-Tetrachloroethane	<0.0005	mg/L	9/29/2020	ALS
1,1,1-Trichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1,2,2-Tetrachloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1-Dichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,1-Dichloropropene	<0.0010	mg/L	9/29/2020	ALS
1,2,3-Trichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,2,3-Trichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,2,4-Trichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,2,4-Trimethylbenzene	<0.0010	mg/L	9/29/2020	ALS
1,2-Dibromo-3-chloropropane	<0.0010	mg/L	9/29/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	9/29/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	9/29/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	9/29/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,3,5-Trimethylbenzene	<0.0010	mg/L	9/29/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	9/29/2020	ALS
1,3-Dichloropropane	<0.0010	mg/L	9/29/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	9/29/2020	ALS
Surrogate: 1,4-Difluorobenzene	92.8	%	9/29/2020	ALS
2,2-Dichloropropane	<0.0020	mg/L	9/29/2020	ALS
2-Chlorotoluene	<0.02	mg/L	9/29/2020	ALS
2-Hexanone (Methyl butyl ketone)	<0.02	mg/L	9/29/2020	ALS
Surrogate: 4-Bromofluorobenzene	74.0	%	9/29/2020	ALS
4-Chlorotoluene	<0.0010	mg/L	9/29/2020	ALS
4-Isopropyltoluene	<0.0010	mg/L	9/29/2020	ALS
Acetone	<0.050	mg/L	9/29/2020	ALS
Benzene	<0.00050	mg/L	9/29/2020	ALS
Bromobenzene	<0.0010	mg/L	9/29/2020	ALS
Bromochloromethane	<0.0010	mg/L	9/29/2020	ALS

VOC plus F1 by GCMS

Bromodichloromethane	<0.00050	mg/L	9/29/2020	ALS
Bromoform	<0.0010	mg/L	9/29/2020	ALS
Bromomethane	<0.001	mg/L	9/29/2020	ALS
Carbon disulfide	<0.0050	mg/L	9/29/2020	ALS
Carbon Tetrachloride	<0.0005	mg/L	9/29/2020	ALS
Chlorobenzene	<0.0010	mg/L	9/29/2020	ALS
Chloroethane	<0.001	mg/L	9/29/2020	ALS
Chloroform	0.00200	mg/L	9/29/2020	ALS
Chloromethane	<0.005	mg/L	9/29/2020	ALS
cis-1,2-Dichloroethene	<0.00100	mg/L	9/29/2020	ALS
cis-1,3-Dichloropropene	<0.0020	mg/L	9/29/2020	ALS
Dibromochloromethane	<0.0005	mg/L	9/29/2020	ALS
Dibromomethane	<0.0010	mg/L	9/29/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	9/29/2020	ALS
Dichloromethane	<0.00500	mg/L	9/29/2020	ALS
Ethylbenzene	<0.00050	mg/L	9/29/2020	ALS
F1	<0.1000	mg/L	9/29/2020	ALS
Hexachlorobutadiene	<0.0010	mg/L	9/29/2020	ALS
Hexane	<0.0010	mg/L	9/29/2020	ALS
Isopropylbenzene	<0.0010	mg/L	9/29/2020	ALS
M+P-Xylenes	<0.0004	mg/L	9/29/2020	ALS
Methylethylketone [MEK]	<0.02	mg/L	9/29/2020	ALS
Methylisobutylketone [MIBK]	<0.02	mg/L	9/29/2020	ALS
Methytertbutylether [MTBE]	<0.0005	mg/L	9/29/2020	ALS
n-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
o-Xylene	<0.0005	mg/L	9/29/2020	ALS
sec-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
Styrene	<0.0010	mg/L	9/29/2020	ALS
tert-Butylbenzene	<0.0010	mg/L	9/29/2020	ALS
Tetrachloroethene	<0.00050	mg/L	9/29/2020	ALS
Toluene	<0.00050	mg/L	9/29/2020	ALS
trans-1,2-Dichloroethene	<0.0010	mg/L	9/29/2020	ALS
trans-1,3-Dichloropropene	<0.0020	mg/L	9/29/2020	ALS
Trichloroethene	<0.00050	mg/L	9/29/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	9/29/2020	ALS
Vinyl Chloride	<0.0005	mg/L	9/29/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0020	mg/L	9/29/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	9/29/2020	ALS
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PCBs

PCBs					
Aroclor 1016	<0.0200	ug/L		9/29/2020	ALS
Aroclor 1221	<0.0200	ug/L		9/29/2020	ALS
Aroclor 1232	<0.0200	ug/L		9/29/2020	ALS
Aroclor 1242	<0.0200	ug/L		9/29/2020	ALS
Aroclor 1248	<0.0200	ug/L		9/29/2020	ALS
Aroclor 1254	<0.0200	ug/L		9/29/2020	ALS
Aroclor 1260	<0.0200	ug/L		9/29/2020	ALS
Aroclor 1262	<0.0200	ug/L		9/29/2020	ALS
Aroclor 1268	<0.0200	ug/L		9/29/2020	ALS
Total Polychlorinated Biphenyls	<0.0600	ug/L		9/29/2020	ALS
Phenol (4AAP)					
Phenols (4AAP) in water	0.006	mg/L		9/29/2020	ALS
Phenoxy Acid Herbicides					
2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L		9/29/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L		9/29/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L		9/29/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L		9/29/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	97.8	%		9/29/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L		9/29/2020	ALS
Bromoxynil in water	<0.0001	ug/L		9/29/2020	ALS
Clopyralid in water	<0.0001	ug/L		9/29/2020	ALS
Dicamba in water	<0.0001	ug/L		9/29/2020	ALS
Dinoseb in water	<0.0001	ug/L		9/29/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L		9/29/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L		9/29/2020	ALS
Mecoprop in water	<0.0001	ug/L		9/29/2020	ALS
Picloram in water	<0.0001	ug/L		9/29/2020	ALS
Triclopyr in water	<0.0001	mg/L		9/29/2020	ALS
Fecal Coliform by MPN QT97					
Fecal Coliform by QT97	<1	MPN/100mL		9/29/2020	ALS
Total Coliform and E.coli QT97					
Escherichia Coliform by QT97	<1	MPN/100mL		9/29/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL		9/29/2020	ALS
Alkalinity, Carbonate					
Alkalinity, carbonate	<0.60	mg/L		9/29/2020	ALS
Organochlorine Pesticides					
alpha-Chlordane	<0.0400	ug/L		10/8/2020	ALS
Aldrin	<0.0400	ug/L		10/8/2020	ALS
alpha-Benzenhexachloride or alpha-Lindane [alpha-BHC]	<0.0400	ug/L		10/8/2020	ALS

Organochlorine Pesticides

beta-Benzenehexachloride or beta-Lindane [beta-BHC]	<0.0400	ug/L	10/8/2020	ALS
Surrogate: Decachlorobiphenyl	121.6	%	10/8/2020	ALS
Dieldrin	<0.0400	ug/L	10/8/2020	ALS
Endosulfan I	<0.0350	ug/L	10/8/2020	ALS
Endosulfan II	<0.0350	ug/L	10/8/2020	ALS
Endosulfan Sulfate	<0.0350	ug/L	10/8/2020	ALS
Endrin	<0.0500	ug/L	10/8/2020	ALS
Endrin Aldehyde	<0.0500	ug/L	10/8/2020	ALS
gamma-hexachlorocyclohexane	<0.0400	ug/L	10/8/2020	ALS
gamma-Chlordane	<0.0400	ug/L	10/8/2020	ALS
Heptachlor	<0.0400	ug/L	10/8/2020	ALS
Heptachlor Epoxide	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobenzene	<0.0400	ug/L	10/8/2020	ALS
Hexachlorobutadiene	<0.0400	ug/L	10/8/2020	ALS
Hexachloroethane	<0.0400	ug/L	10/8/2020	ALS
Methoxychlor	<0.0400	ug/L	10/8/2020	ALS
Mirex	<0.0400	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethane [o,p-DDD]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyldichloroethylene [o,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
o,p-Dichlorodiphenyltrichloroethane [o,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Oxychlordane	<0.04	ug/L	10/8/2020	ALS
Pentachloronitrobenzene	<0.050	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethane [pp-DDD]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyldichloroethylene [p,p-DDE]	<0.0200	ug/L	10/8/2020	ALS
p,p-Dichlorodiphenyltrichloroethane [p,p-DDT]	<0.0200	ug/L	10/8/2020	ALS
Surrogate: Tetrachloro-m-xylene	79.3	%	10/8/2020	ALS
trans-Nonachlor	<0.05	ug/L	10/8/2020	ALS

Sample No. : 340196
Sample Description : LQ-25-Leachate Composite
Sample Date : September 9, 2020
Sample Received : September 9, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Dioxins and Furans HR 1613B					
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin [HpCDD]	48.1000	pg/L		10/8/2020	ALS
1,2,3,4,6,7,8-Heptachlorodibenzofuran [6-HpCDF]	12.2000	pg/L		10/8/2020	ALS
1,2,3,4,7,8,9-Heptachlorodibenzofuran [9-HpCDF]	<2.1000	pg/L		10/8/2020	ALS
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin [4-HxCDD]	<1.7000	pg/L		10/8/2020	ALS
1,2,3,4,7,8-Hexachlorodibenzofuran [4-HxCDF]	<1.3000	pg/L		10/8/2020	ALS
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin [6-HxCDD]	<1.6000	pg/L		10/8/2020	ALS
1,2,3,6,7,8-Hexachlorodibenzofuran [6-HxCDF]	<1.3000	pg/L		10/8/2020	ALS
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin [9-HxCDD]	<1.7000	pg/L		10/8/2020	ALS
1,2,3,7,8,9-Hexachlorodibenzofuran [9-HxCDF]	<1.9000	pg/L		10/8/2020	ALS
1,2,3,7,8-Pentachlorodibenzo-p-dioxin [PeCDD]	<0.7000	pg/L		10/8/2020	ALS
1,2,3,7,8-Pentachlorodibenzofuran [1-PeCDF]	<0.6500	pg/L		10/8/2020	ALS
13C12-1,2,3,4,6,7,8-HpCDD	45	%		10/8/2020	ALS
13C12-1,2,3,4,6,7,8-HpCDF	51	%		10/8/2020	ALS
13C12-1,2,3,4,7,8,9-HpCDF	43	%		10/8/2020	ALS
13C12-1,2,3,4,7,8-HxCDD	67	%		10/8/2020	ALS
13C12-1,2,3,4,7,8-HxCDF	74	%		10/8/2020	ALS
13C12-1,2,3,6,7,8-HxCDD	68	%		10/8/2020	ALS
13C12-1,2,3,6,7,8-HxCDF	78	%		10/8/2020	ALS
13C12-1,2,3,7,8,9-HxCDF	65	%		10/8/2020	ALS
13C12-1,2,3,7,8-PeCDD	59	%		10/8/2020	ALS
13C12-1,2,3,7,8-PeCDF	68	%		10/8/2020	ALS
13C12-2,3,4,6,7,8-HxCDF	75	%		10/8/2020	ALS
13C12-2,3,4,7,8-PeCDF	63	%		10/8/2020	ALS
13C12-2,3,7,8-TCDD	70	%		10/8/2020	ALS
13C12-2,3,7,8-TCDF	73	%		10/8/2020	ALS
13C12-OCDD	18	%		10/8/2020	ALS
2,3,4,6,7,8-Hexachlorodibenzofuran [2-HxCDF]	<1.4000	pg/L		10/8/2020	ALS
2,3,4,7,8-Pentachlorodibenzofuran [4-PeCDF]	<0.5700	pg/L		10/8/2020	ALS
2,3,7,8-Tetrachlorodibenzo-p-dioxin [TCDD]	<0.8500	pg/L		10/8/2020	ALS
2,3,7,8-Tetrachlorodibenzofuran [TCDF]	<0.6700	pg/L		10/8/2020	ALS
37Cl4-2,3,7,8-TCDD (Cleanup)	82	%		10/8/2020	ALS
Lower Bound PCDD/F TEQ (WHO 2005)	0.76	pg/L		10/8/2020	ALS
Mid Point PCDD/F TEQ (WHO 2005)	2.22	pg/L		10/8/2020	ALS
Octochlorodibenzo-p-dioxin [OCDD]	482.0000	pg/L		10/8/2020	ALS
Octochlorodibenzofuran [OCDF]	49.4000	pg/L		10/8/2020	ALS

Dioxins and Furans HR 1613B

Total HpCDD # Homologues	2	count	10/8/2020	ALS
Total HpCDF # Homologues	2	count	10/8/2020	ALS
Total HxCDD # Homologues	1	count	10/8/2020	ALS
Total HxCDF # Homologues	2	count	10/8/2020	ALS
Total PeCDD # Homologues	2	count	10/8/2020	ALS
Total PeCDF # Homologues	1	count	10/8/2020	ALS
Total TCDD # Homologues	0	count	10/8/2020	ALS
Total TCDF # Homologues	0	count	10/8/2020	ALS
Total-HpCDD	112.0000	pg/L	10/8/2020	ALS
Total-HpCDF	29.4000	pg/L	10/8/2020	ALS
Total-HxCDD	6.2000	pg/L	10/8/2020	ALS
Total-HxCDF	2.5000	pg/L	10/8/2020	ALS
Total-PeCDD	4.1500	pg/L	10/8/2020	ALS
Total-PeCDF	0.9000	pg/L	10/8/2020	ALS
Total-TCDD	<0.8500	pg/L	10/8/2020	ALS
Total-TCDF	<0.6700	pg/L	10/8/2020	ALS
Upper Bound PCDD/F TEQ (WHO 2005)	3.68	pg/L	10/8/2020	ALS

Reference Information

The Analytical Services Branch is accredited by CALA in accordance with ISO 17025 standards for specific tests.

Glossary of Terms :

ABSDN : Abnormal sample, appears darker, discoloured or thicker than normal

NRSUB : No result reported by subcontract laboratory

Accredited Test Methods Used :**Test Method**

Alkalinity by Titration
 Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis
 BOD5 Seeded by Automated Method
 COD by Closed Reflux Method
 Conductivity by Electrometric Method
 Dissolved Organic Carbon by High Temperature Combustion
 Dissolved Solids by Gravimetric Analysis
 Hardness, Calcium & Total by Calculation
 Metals Total in Water by ICP-MS
 pH in Laboratory by Electrometric Method
 Total Kjeldahl Nitrogen Calculated

Reference Method

Modified from SM 2320 B. Titration Method
 Modified from SM 4500-NH3 H. NO3 I & P G. Flow Injection Analysis
 Modified from SM 5210 B. 5-Day BOD Test
 Modified from SM 5220 D. Closed Reflux, Colorimetric Method
 Modified from SM 2510 B. Laboratory Measurement
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 C. Total Dissolved Solids Dried at 180°C
 Calculated from EPA Methods 200.8
 Modified from EPA Methods 200.8
 Modified from SM 4500 H+B (Electrometric Method)
 Calculated from SM 5310 B. High Temperature Combustion and SM 4500-NO3 I. Flow Injection Analysis

Total Nitrogen by High Temperature Combustion
 Modified from SM 5310 B. High Temperature Combustion
 Total Organic Carbon by High Temperature Combustion
 Modified from SM 5310 B. High Temperature Combustion
 Total Solids by Gravimetric Analysis
 Modified from SM 2540 B. Total Solids Dried at 103-105°C
 Total Suspended Solids by Gravimetric Analysis
 Modified from SM 2540 D. Total Suspended Solids Dried at 103-105°C
 Turbidity in Laboratory by Nephelometric Method
 Modified from SM 2130 A. Turbidity & 2130 B. Nephelometric Method

Additional Test Methods Used :**Test Method**

Chloride by Mercuric Thiocyanate Method
 Sulfate by HACH Method

Reference Method

Modified from SM 4500Cl-G Mercuric Thiocyanate & HACH Method 8113
 Modified from HACH Method 8051, SulfaVer 4, & SM 4500-SO4-2 E. Turbidimetric

Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4

COW_ASB : City of Winnipeg Main Laboratory at NEWPCC, 2230 Main Street, Winnipeg, MB R2V 4T8

Additional Comments :

- 1) A quality control report can be provided upon request. These reports may contain quality control results from other samples not included in this test report.
- 2) Analytical Services Branch test methods may incorporate modifications from specified reference methods to improve performance.
- 3) For subcontracted testing, the certificate of analysis can be provided upon request.
- 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

----- **END OF REPORT** -----



Report To :

Mr. Chris Kozak

Solid Waste Services Division
1120 Waverley Street
Winnipeg MB R3E 3S8

Report Date : December 10, 2020

Phone : 204-986-2384

Email : ckozak@winnipeg.ca

Certificate of Analysis Job No. 588

Date Authorised : December 10, 2020

Total Number of Pages : 122

This report is issued under the authority of :

Brock Bradford

Analytical Services Branch Head

This report shall not be reproduced except in full without the written approval of the laboratory.

The results relate only to the sample(s) as received by the laboratory.

Additional information regarding the test methods used by Analytical Services Branch or contract laboratory is available upon request.

Sample No. : 337191
Sample Description : GWQ18-IN232
Sample Date : September 29, 2020
Sample Received : September 29, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	409 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, total to pH 4.5	409 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.156 ± 16.9%	mg/L		10/5/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.080 ± 7.8%	mg/L		10/5/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/5/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	762 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	711 ± 10%	mg/L		10/5/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	55.0 ± 6.1%	mg/L		10/9/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4080 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.18 ± 0.07 units	units		9/29/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	2670 ± 6.5%	mg/L		10/1/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3260 ± 6.2%	mg/L		10/1/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	586.0	mg/L		10/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	4.0 ± 13%	mg/L		10/1/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	3.7 ± 13%	mg/L		10/1/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0787 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	<0.0002 ± 8.1%	mg/L		10/6/2020	COW_ASB
Boron (B), soluble in water	0.4795 ± 24.2%	mg/L		10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	2536 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	0.00040 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	0.00055 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	0.1295 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	0.00011 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	1795 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.18891 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00138 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	21.69 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	4371 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	0.0068 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.0023 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	1.5403 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.000295 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.026491 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.35847 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	250.20 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00363 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.006181 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	2.2381 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.001084 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	180.39 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.24098 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.004777 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0616 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	20.851 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	0.00025 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	0.00039 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	389.33 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.006726 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.02171 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	625	mg/L	10/15/2020	COW_ASB
Total Hardness, calculated in water	1370	mg/L	10/15/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	123.00 ± 4.4%	NTU	9/29/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	802.000	mg/L	10/7/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	675.00	mg/L	10/7/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/7/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/7/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/7/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/7/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/7/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	90.900	%	10/7/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/7/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/7/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/7/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/7/2020	ALS
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Surrogate: 1,4-Difluorobenzene	86.9	%	10/7/2020	ALS
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Acetone	<0.050	mg/L	10/7/2020	ALS
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Benzene	<0.00050	mg/L	10/7/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/7/2020	ALS
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Bromoform	<0.0010	mg/L	10/7/2020	ALS
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Bromomethane	<0.001	mg/L	10/7/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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Chloroethane	<0.001	mg/L	10/7/2020	ALS
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Chloroform	<0.00050	mg/L	10/7/2020	ALS
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Chloromethane	<0.005	mg/L	10/7/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/7/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/7/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/7/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/7/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/7/2020	ALS
Styrene	<0.0010	mg/L	10/7/2020	ALS
Toluene	<0.00050	mg/L	10/7/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/7/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/7/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/7/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/7/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	10/7/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/7/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337192
Sample Description : GWQ18-W4
Sample Date : September 29, 2020
Sample Received : September 29, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	364 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, total to pH 4.5	364 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.166 ± 16.9%	mg/L		10/5/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.054 ± 7.8%	mg/L		10/5/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/5/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	286 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	304 ± 10%	mg/L		10/5/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	32.0 ± 6.1%	mg/L		10/9/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2150 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.36 ± 0.07 units	units		9/29/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1300 ± 6.5%	mg/L		10/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1350 ± 6.2%	mg/L		10/1/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	49.0	mg/L		10/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.3 ± 13%	mg/L		10/1/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.6 ± 13%	mg/L		10/1/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	0.0026 ± 8.1%	mg/L		10/6/2020	COW_ASB
Boron (B), soluble in water	0.4609 ± 24.2%	mg/L		10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	1085 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	0.00052 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	0.00340 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	1.206 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	712.2 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.02958 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00378 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	18.54 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	2825 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.0022 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00892 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.000107 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.002466 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.016224 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.47548 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	96.897 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00147 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.008726 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	1.8053 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	75.190 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.03168 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.004935 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0029 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	18.392 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	0.00022 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00250 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	238.35 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.000259 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.00584 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	242	mg/L	10/15/2020	COW_ASB
Total Hardness, calculated in water	552	mg/L	10/15/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	8.49 ± 4.4%	NTU	9/29/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	371.000	mg/L	10/7/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	236.00	mg/L	10/7/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/7/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/7/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/7/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/7/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/7/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.300	%	10/7/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/7/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/7/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/7/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/7/2020	ALS
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Surrogate: 1,4-Difluorobenzene	88.8	%	10/7/2020	ALS
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Acetone	<0.050	mg/L	10/7/2020	ALS
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Benzene	<0.00050	mg/L	10/7/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/7/2020	ALS
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Bromoform	<0.0010	mg/L	10/7/2020	ALS
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Bromomethane	<0.001	mg/L	10/7/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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Chloroethane	<0.001	mg/L	10/7/2020	ALS
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Chloroform	<0.00050	mg/L	10/7/2020	ALS
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Chloromethane	<0.005	mg/L	10/7/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/7/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/7/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/7/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/7/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/7/2020	ALS
Styrene	<0.0010	mg/L	10/7/2020	ALS
Toluene	<0.00050	mg/L	10/7/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/7/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/7/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/7/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/7/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	10/7/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/7/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337193
Sample Description : GWQ18-W5
Sample Date : October 7, 2020
Sample Received : October 7, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	367 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, total to pH 4.5	367 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.324 ± 16.9%	mg/L		10/20/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.004 ± 7.8%	mg/L		10/20/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	534 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	436 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	28.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	3010 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.34 ± 0.07 units	units		10/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1850 ± 6.5%	mg/L		10/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1920 ± 6.2%	mg/L		10/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	67.0	mg/L		10/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.8 ± 13%	mg/L		10/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.3 ± 13%	mg/L		10/9/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0037 ± 9.8%	mg/L		10/15/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/15/2020	COW_ASB
Arsenic (As), soluble in water	0.0005 ± 8.1%	mg/L		10/15/2020	COW_ASB
Boron (B), soluble in water	0.7402 ± 24.2%	mg/L		10/15/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/15/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	153.1 ± 20.9%	mg/L	10/15/2020	COW_ASB
Chromium (Cr), soluble in water	0.00005 ± 12.8%	mg/L	10/15/2020	COW_ASB
Copper (Cu), Soluble in water	0.00026 ± 12.1%	mg/L	10/15/2020	COW_ASB
Iron (Fe), soluble in water	0.1997 ± 9.7%	mg/L	10/15/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/15/2020	COW_ASB
Magnesium (Mg), soluble in water	106.2 ± 10.5%	mg/L	10/15/2020	COW_ASB
Manganese (Mn), soluble in water	0.01605 ± 11.2%	mg/L	10/15/2020	COW_ASB
Nickel (Ni), soluble in water	0.00050 ± 12.2%	mg/L	10/15/2020	COW_ASB
Potassium (K), soluble in water	25.30 ± 18.3%	mg/L	10/15/2020	COW_ASB
Sodium (Na), soluble in water	487.7 ± 9.2%	mg/L	10/15/2020	COW_ASB
Uranium (U), soluble in water	0.0008 ± 10.0%	mg/L	10/15/2020	COW_ASB
Zinc (Zn), soluble in water	0.0017 ± 10.7	mg/L	10/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.01737 ± 9.8%	mg/L	10/18/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	10/18/2020	COW_ASB
Arsenic (As), total in water	0.000421 ± 8.1%	mg/L	10/18/2020	COW_ASB
Barium (Ba), total in water	0.011727 ± 11.8%	mg/L	10/18/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/18/2020	COW_ASB
Boron (B), total in water	0.71069 ± 24.2%	mg/L	10/18/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/18/2020	COW_ASB
Calcium (Ca), total in water	120.91 ± 20.9%	mg/L	10/18/2020	COW_ASB
Chromium (Cr), total in water	0.00020 ± 12.8%	mg/L	10/18/2020	COW_ASB
Copper (Cu), total in water	0.000737 ± 12.1%	mg/L	10/18/2020	COW_ASB
Iron (Fe), total in water	0.28473 ± 9.7%	mg/L	10/18/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/18/2020	COW_ASB
Magnesium (Mg), total in water	80.955 ± 10.5%	mg/L	10/18/2020	COW_ASB
Manganese (Mn), total in water	0.01638 ± 11.2%	mg/L	10/18/2020	COW_ASB
Nickel (Ni), total in water	0.000606 ± 12.2%	mg/L	10/18/2020	COW_ASB
Phosphorus (P), total in water	0.0061 ± 4.5%	mg/L	10/18/2020	COW_ASB
Potassium (K), total in water	23.428 ± 18.3%	mg/L	10/18/2020	COW_ASB
Selenium (Se), total in water	0.00043 ± 8.0%	mg/L	10/18/2020	COW_ASB
Silver (Ag), total in water	-0.00185 ± 7.5%	mg/L	10/18/2020	COW_ASB
Sodium (Na), total in water	423.89 ± 9.2%	mg/L	10/18/2020	COW_ASB
Uranium (U), total in water	0.000420 ± 10.0%	mg/L	10/18/2020	COW_ASB
Zinc (Zn), total in water	0.00549 ± 10.7%	mg/L	10/18/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	302	mg/L	10/20/2020	COW_ASB
Total Hardness, calculated in water	635	mg/L	10/20/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.26 ± 4.4%	NTU	10/9/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	559.000	mg/L	10/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	403.00	mg/L	10/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	95.400	%	10/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.8	%	10/20/2020	ALS
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Acetone	<0.050	mg/L	10/20/2020	ALS
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Benzene	<0.00050	mg/L	10/20/2020	ALS
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Bromodichloromethane	0.00078	mg/L	10/20/2020	ALS
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Bromoform	0.0020	mg/L	10/20/2020	ALS
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Bromomethane	<0.001	mg/L	10/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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Chloroethane	<0.001	mg/L	10/20/2020	ALS
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Chloroform	0.00187	mg/L	10/20/2020	ALS
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Chloromethane	<0.005	mg/L	10/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
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Dibromochloromethane	0.0012	mg/L	10/20/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/20/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/20/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/20/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/20/2020	ALS
Styrene	<0.0010	mg/L	10/20/2020	ALS
Toluene	<0.00050	mg/L	10/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/20/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0059	mg/L	10/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	10/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
Total Coliforms by QT97	2	MPN/100mL	10/20/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337194
Sample Description : GWQ18-W6
Sample Date : October 6, 2020
Sample Received : October 6, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	360 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, total to pH 4.5	360 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.279 ± 16.9%	mg/L		10/20/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.008 ± 7.8%	mg/L		10/20/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.016 ± 7.5%	mg/L		10/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	588 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	284 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	34.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2720 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.38 ± 0.07 units	units		10/7/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1560 ± 6.5%	mg/L		10/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1690 ± 6.2%	mg/L		10/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	131.0	mg/L		10/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.0 ± 13%	mg/L		10/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.8 ± 13%	mg/L		10/9/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0203 ± 9.8%	mg/L		10/15/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/15/2020	COW_ASB
Arsenic (As), soluble in water	0.0002 ± 8.1%	mg/L		10/15/2020	COW_ASB
Boron (B), soluble in water	0.6340 ± 24.2%	mg/L		10/15/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/15/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	125.6 ± 20.9%	mg/L	10/15/2020	COW_ASB
Chromium (Cr), soluble in water	0.00006 ± 12.8%	mg/L	10/15/2020	COW_ASB
Copper (Cu), Soluble in water	0.00019 ± 12.1%	mg/L	10/15/2020	COW_ASB
Iron (Fe), soluble in water	0.1311 ± 9.7%	mg/L	10/15/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/15/2020	COW_ASB
Magnesium (Mg), soluble in water	80.04 ± 10.5%	mg/L	10/15/2020	COW_ASB
Manganese (Mn), soluble in water	0.01648 ± 11.2%	mg/L	10/15/2020	COW_ASB
Nickel (Ni), soluble in water	0.00045 ± 12.2%	mg/L	10/15/2020	COW_ASB
Potassium (K), soluble in water	23.75 ± 18.3%	mg/L	10/15/2020	COW_ASB
Sodium (Na), soluble in water	399.6 ± 9.2%	mg/L	10/15/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	10/15/2020	COW_ASB
Zinc (Zn), soluble in water	0.0023 ± 10.7	mg/L	10/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.15952 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.000909 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.000251 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.012357 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.59773 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	102.64 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00059 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.001256 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.33808 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.000069 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	65.586 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.01824 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.001492 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0124 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	19.386 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	0.00037 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00327 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	347.19 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.00809 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	256	mg/L	10/14/2020	COW_ASB
Total Hardness, calculated in water	526	mg/L	10/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	16.90 ± 4.4%	NTU	10/7/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	509.000	mg/L	10/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	277.00	mg/L	10/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	93.600	%	10/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.6	%	10/20/2020	ALS
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Acetone	<0.050	mg/L	10/20/2020	ALS
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Benzene	<0.00050	mg/L	10/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/20/2020	ALS
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Bromoform	<0.0010	mg/L	10/20/2020	ALS
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Bromomethane	<0.001	mg/L	10/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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Chloroethane	<0.001	mg/L	10/20/2020	ALS
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Chloroform	<0.00050	mg/L	10/20/2020	ALS
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Chloromethane	<0.005	mg/L	10/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/20/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/20/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/20/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/20/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/20/2020	ALS
Styrene	<0.0010	mg/L	10/20/2020	ALS
Toluene	<0.00050	mg/L	10/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/20/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.005	mg/L	10/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
Total Coliforms by QT97	1	MPN/100mL	10/20/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337195
Sample Description : GWQ18-W7
Sample Date : October 7, 2020
Sample Received : October 7, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	380 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, total to pH 4.5	380 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.197 ± 16.9%	mg/L		10/20/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/20/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	292 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	211 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1880 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.37 ± 0.07 units	units		10/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1140 ± 6.5%	mg/L		10/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1220 ± 6.2%	mg/L		10/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	83.0	mg/L		10/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	8.8 ± 13%	mg/L		10/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.8 ± 13%	mg/L		10/9/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0259 ± 9.8%	mg/L		10/15/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/15/2020	COW_ASB
Arsenic (As), soluble in water	0.0019 ± 8.1%	mg/L		10/15/2020	COW_ASB
Boron (B), soluble in water	0.5315 ± 24.2%	mg/L		10/15/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/15/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	104.9 ± 20.9%	mg/L	10/15/2020	COW_ASB
Chromium (Cr), soluble in water	0.00005 ± 12.8%	mg/L	10/15/2020	COW_ASB
Copper (Cu), Soluble in water	0.00016 ± 12.1%	mg/L	10/15/2020	COW_ASB
Iron (Fe), soluble in water	0.3329 ± 9.7%	mg/L	10/15/2020	COW_ASB
Lead (Pb), soluble in water	0.00008 ± 8.3%	mg/L	10/15/2020	COW_ASB
Magnesium (Mg), soluble in water	70.14 ± 10.5%	mg/L	10/15/2020	COW_ASB
Manganese (Mn), soluble in water	0.00786 ± 11.2%	mg/L	10/15/2020	COW_ASB
Nickel (Ni), soluble in water	0.00045 ± 12.2%	mg/L	10/15/2020	COW_ASB
Potassium (K), soluble in water	19.72 ± 18.3%	mg/L	10/15/2020	COW_ASB
Sodium (Na), soluble in water	250.7 ± 9.2%	mg/L	10/15/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	10/15/2020	COW_ASB
Zinc (Zn), soluble in water	0.0027 ± 10.7	mg/L	10/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.11783 ± 9.8%	mg/L	10/18/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	10/18/2020	COW_ASB
Arsenic (As), total in water	0.002421 ± 8.1%	mg/L	10/18/2020	COW_ASB
Barium (Ba), total in water	0.016654 ± 11.8%	mg/L	10/18/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/18/2020	COW_ASB
Boron (B), total in water	0.51995 ± 24.2%	mg/L	10/18/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/18/2020	COW_ASB
Calcium (Ca), total in water	99.801 ± 20.9%	mg/L	10/18/2020	COW_ASB
Chromium (Cr), total in water	0.00053 ± 12.8%	mg/L	10/18/2020	COW_ASB
Copper (Cu), total in water	0.001452 ± 12.1%	mg/L	10/18/2020	COW_ASB
Iron (Fe), total in water	0.65951 ± 9.7%	mg/L	10/18/2020	COW_ASB
Lead (Pb), total in water	0.000276 ± 8.3%	mg/L	10/18/2020	COW_ASB
Magnesium (Mg), total in water	60.840 ± 10.5%	mg/L	10/18/2020	COW_ASB
Manganese (Mn), total in water	0.01174 ± 11.2%	mg/L	10/18/2020	COW_ASB
Nickel (Ni), total in water	0.000826 ± 12.2%	mg/L	10/18/2020	COW_ASB
Phosphorus (P), total in water	0.0219 ± 4.5%	mg/L	10/18/2020	COW_ASB
Potassium (K), total in water	18.834 ± 18.3%	mg/L	10/18/2020	COW_ASB
Selenium (Se), total in water	0.00029 ± 8.0%	mg/L	10/18/2020	COW_ASB
Silver (Ag), total in water	-0.00173 ± 7.5%	mg/L	10/18/2020	COW_ASB
Sodium (Na), total in water	255.41 ± 9.2%	mg/L	10/18/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/18/2020	COW_ASB
Zinc (Zn), total in water	0.01315 ± 10.7%	mg/L	10/18/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	249	mg/L	10/27/2020	COW_ASB
Total Hardness, calculated in water	500	mg/L	10/27/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	9.46 ± 4.4%	NTU	10/9/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	307.000	mg/L	10/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	197.00	mg/L	10/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	97.800	%	10/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	95.8	%	10/20/2020	ALS
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Acetone	<0.050	mg/L	10/20/2020	ALS
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Benzene	<0.00050	mg/L	10/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/20/2020	ALS
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Bromoform	<0.0010	mg/L	10/20/2020	ALS
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Bromomethane	<0.001	mg/L	10/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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Chloroethane	<0.001	mg/L	10/20/2020	ALS
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Chloroform	<0.00050	mg/L	10/20/2020	ALS
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Chloromethane	<0.005	mg/L	10/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/20/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/20/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/20/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/20/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/20/2020	ALS
Styrene	<0.0010	mg/L	10/20/2020	ALS
Toluene	<0.00050	mg/L	10/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/20/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	10/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/20/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337196
Sample Description : GWQ18-W8
Sample Date : October 6, 2020
Sample Received : October 6, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	455 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, total to pH 4.5	455 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.146 ± 16.9%	mg/L		10/20/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.012 ± 7.8%	mg/L		10/20/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.020 ± 7.5%	mg/L		10/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	544 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	520 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	38.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4590 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.13 ± 0.07 units	units		10/7/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3560 ± 6.5%	mg/L		10/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3790 ± 6.2%	mg/L		10/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	229.0	mg/L		10/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.1 ± 13%	mg/L		10/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	8.2 ± 13%	mg/L		10/9/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0049 ± 9.8%	mg/L		10/15/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/15/2020	COW_ASB
Arsenic (As), soluble in water	0.0056 ± 8.1%	mg/L		10/15/2020	COW_ASB
Boron (B), soluble in water	0.7046 ± 24.2%	mg/L		10/15/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/15/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	302.5 ± 20.9%	mg/L	10/15/2020	COW_ASB
Chromium (Cr), soluble in water	0.00005 ± 12.8%	mg/L	10/15/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	10/15/2020	COW_ASB
Iron (Fe), soluble in water	1.889 ± 9.7%	mg/L	10/15/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/15/2020	COW_ASB
Magnesium (Mg), soluble in water	285.3 ± 10.5%	mg/L	10/15/2020	COW_ASB
Manganese (Mn), soluble in water	0.04815 ± 11.2%	mg/L	10/15/2020	COW_ASB
Nickel (Ni), soluble in water	0.00279 ± 12.2%	mg/L	10/15/2020	COW_ASB
Potassium (K), soluble in water	27.01 ± 18.3%	mg/L	10/15/2020	COW_ASB
Sodium (Na), soluble in water	1054 ± 9.2%	mg/L	10/15/2020	COW_ASB
Uranium (U), soluble in water	0.0198 ± 10.0%	mg/L	10/15/2020	COW_ASB
Zinc (Zn), soluble in water	0.0024 ± 10.7	mg/L	10/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.01452 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.000975 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.005121 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.009996 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.66710 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	261.10 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00046 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.000675 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	1.7790 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	264.51 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.05331 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.002915 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0160 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	22.215 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	0.00051 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00313 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	1054.1 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.018892 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.00859 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	652	mg/L	10/14/2020	COW_ASB
Total Hardness, calculated in water	1740	mg/L	10/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	3.69 ± 4.4%	NTU	10/7/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	582.000	mg/L	10/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	1500.00	mg/L	10/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.200	%	10/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	96.4	%	10/20/2020	ALS
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Acetone	<0.050	mg/L	10/20/2020	ALS
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Benzene	<0.00050	mg/L	10/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/20/2020	ALS
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Bromoform	<0.0010	mg/L	10/20/2020	ALS
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Bromomethane	<0.001	mg/L	10/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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Chloroethane	<0.001	mg/L	10/20/2020	ALS
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Chloroform	<0.00050	mg/L	10/20/2020	ALS
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Chloromethane	<0.005	mg/L	10/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/20/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/20/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/20/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/20/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/20/2020	ALS
Styrene	<0.0010	mg/L	10/20/2020	ALS
Toluene	<0.00050	mg/L	10/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/20/2020	ALS
Vinyl Chloride	0.0005	mg/L	10/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.009	mg/L	10/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/20/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	0.21	mg/L	10/27/2020	COW_ASB
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Sample No. : 337197
Sample Description : GWQ18-W9
Sample Date : October 7, 2020
Sample Received : October 7, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	373 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, total to pH 4.5	373 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.266 ± 16.9%	mg/L		10/20/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/20/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.016 ± 7.5%	mg/L		10/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	468 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	251 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	24.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2550 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.37 ± 0.07 units	units		10/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1520 ± 6.5%	mg/L		10/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1620 ± 6.2%	mg/L		10/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	95.0	mg/L		10/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.0 ± 13%	mg/L		10/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.8 ± 13%	mg/L		10/9/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0122 ± 9.8%	mg/L		10/15/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/15/2020	COW_ASB
Arsenic (As), soluble in water	<0.0002 ± 8.1%	mg/L		10/15/2020	COW_ASB
Boron (B), soluble in water	0.6319 ± 24.2%	mg/L		10/15/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/15/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	115.4 ± 20.9%	mg/L	10/15/2020	COW_ASB
Chromium (Cr), soluble in water	0.00020 ± 12.8%	mg/L	10/15/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	10/15/2020	COW_ASB
Iron (Fe), soluble in water	0.1587 ± 9.7%	mg/L	10/15/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/15/2020	COW_ASB
Magnesium (Mg), soluble in water	74.82 ± 10.5%	mg/L	10/15/2020	COW_ASB
Manganese (Mn), soluble in water	0.01617 ± 11.2%	mg/L	10/15/2020	COW_ASB
Nickel (Ni), soluble in water	0.00030 ± 12.2%	mg/L	10/15/2020	COW_ASB
Potassium (K), soluble in water	23.72 ± 18.3%	mg/L	10/15/2020	COW_ASB
Sodium (Na), soluble in water	358.0 ± 9.2%	mg/L	10/15/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	10/15/2020	COW_ASB
Zinc (Zn), soluble in water	0.0036 ± 10.7	mg/L	10/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.01253 ± 9.8%	mg/L	10/18/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	10/18/2020	COW_ASB
Arsenic (As), total in water	0.000060 ± 8.1%	mg/L	10/18/2020	COW_ASB
Barium (Ba), total in water	0.012297 ± 11.8%	mg/L	10/18/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/18/2020	COW_ASB
Boron (B), total in water	0.60813 ± 24.2%	mg/L	10/18/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/18/2020	COW_ASB
Calcium (Ca), total in water	108.03 ± 20.9%	mg/L	10/18/2020	COW_ASB
Chromium (Cr), total in water	0.00033 ± 12.8%	mg/L	10/18/2020	COW_ASB
Copper (Cu), total in water	0.000733 ± 12.1%	mg/L	10/18/2020	COW_ASB
Iron (Fe), total in water	0.20163 ± 9.7%	mg/L	10/18/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/18/2020	COW_ASB
Magnesium (Mg), total in water	65.807 ± 10.5%	mg/L	10/18/2020	COW_ASB
Manganese (Mn), total in water	0.01683 ± 11.2%	mg/L	10/18/2020	COW_ASB
Nickel (Ni), total in water	0.000321 ± 12.2%	mg/L	10/18/2020	COW_ASB
Phosphorus (P), total in water	0.0097 ± 4.5%	mg/L	10/18/2020	COW_ASB
Potassium (K), total in water	21.731 ± 18.3%	mg/L	10/18/2020	COW_ASB
Selenium (Se), total in water	0.00022 ± 8.0%	mg/L	10/18/2020	COW_ASB
Silver (Ag), total in water	-0.00176 ± 7.5%	mg/L	10/18/2020	COW_ASB
Sodium (Na), total in water	382.94 ± 9.2%	mg/L	10/18/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/18/2020	COW_ASB
Zinc (Zn), total in water	0.00860 ± 10.7%	mg/L	10/18/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	270	mg/L	10/27/2020	COW_ASB
Total Hardness, calculated in water	541	mg/L	10/27/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	3.28 ± 4.4%	NTU	10/9/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	489.000	mg/L	10/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	277.00	mg/L	10/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/20/2020	ALS
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Total Hydrocarbons (C6-C50)	0.41	mg/L	10/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	102.800	%	10/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/20/2020	ALS
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Fraction 4 (C34-C50)	0.410	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.1	%	10/20/2020	ALS
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Acetone	<0.050	mg/L	10/20/2020	ALS
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Benzene	<0.00050	mg/L	10/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/20/2020	ALS
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Bromoform	<0.0010	mg/L	10/20/2020	ALS
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Bromomethane	<0.001	mg/L	10/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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Chloroethane	<0.001	mg/L	10/20/2020	ALS
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Chloroform	<0.00050	mg/L	10/20/2020	ALS
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Chloromethane	<0.005	mg/L	10/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/20/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/20/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/20/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/20/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/20/2020	ALS
Styrene	<0.0010	mg/L	10/20/2020	ALS
Toluene	<0.00050	mg/L	10/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/20/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	10/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/20/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337198
Sample Description : GWQ18-W10
Sample Date : October 8, 2020
Sample Received : October 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	395 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, total to pH 4.5	395 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.071 ± 16.9%	mg/L		10/22/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.003 ± 7.8%	mg/L		10/22/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/22/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	198 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	110 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	23.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1520 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.34 ± 0.07 units	units		10/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	904 ± 6.5%	mg/L		10/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1210 ± 6.2%	mg/L		10/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	308.0	mg/L		10/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	0.8 ± 13%	mg/L		10/14/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	<0.1 ± 13%	mg/L		10/14/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0907 ± 9.8%	mg/L		10/27/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/27/2020	COW_ASB
Arsenic (As), soluble in water	0.0002 ± 8.1%	mg/L		10/27/2020	COW_ASB
Boron (B), soluble in water	0.4920 ± 24.2%	mg/L		10/27/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/27/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	91.25 ± 20.9%	mg/L	10/27/2020	COW_ASB
Chromium (Cr), soluble in water	0.00012 ± 12.8%	mg/L	10/27/2020	COW_ASB
Copper (Cu), Soluble in water	0.00089 ± 12.1%	mg/L	10/27/2020	COW_ASB
Iron (Fe), soluble in water	0.1368 ± 9.7%	mg/L	10/27/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/27/2020	COW_ASB
Magnesium (Mg), soluble in water	59.39 ± 10.5%	mg/L	10/27/2020	COW_ASB
Manganese (Mn), soluble in water	0.01215 ± 11.2%	mg/L	10/27/2020	COW_ASB
Nickel (Ni), soluble in water	0.00077 ± 12.2%	mg/L	10/27/2020	COW_ASB
Potassium (K), soluble in water	18.50 ± 18.3%	mg/L	10/27/2020	COW_ASB
Sodium (Na), soluble in water	167.5 ± 9.2%	mg/L	10/27/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	10/27/2020	COW_ASB
Zinc (Zn), soluble in water	0.0028 ± 10.7	mg/L	10/27/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	1.0823 ± 9.8%	mg/L	10/18/2020	COW_ASB
Antimony (Sb), total in water	0.000705 ± 9.2%	mg/L	10/18/2020	COW_ASB
Arsenic (As), total in water	0.000348 ± 8.1%	mg/L	10/18/2020	COW_ASB
Barium (Ba), total in water	0.017669 ± 11.8%	mg/L	10/18/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/18/2020	COW_ASB
Boron (B), total in water	0.47076 ± 24.2%	mg/L	10/18/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/18/2020	COW_ASB
Calcium (Ca), total in water	106.23 ± 20.9%	mg/L	10/18/2020	COW_ASB
Chromium (Cr), total in water	0.00211 ± 12.8%	mg/L	10/18/2020	COW_ASB
Copper (Cu), total in water	0.001963 ± 12.1%	mg/L	10/18/2020	COW_ASB
Iron (Fe), total in water	1.6197 ± 9.7%	mg/L	10/18/2020	COW_ASB
Lead (Pb), total in water	0.000373 ± 8.3%	mg/L	10/18/2020	COW_ASB
Magnesium (Mg), total in water	60.537 ± 10.5%	mg/L	10/18/2020	COW_ASB
Manganese (Mn), total in water	0.05764 ± 11.2%	mg/L	10/18/2020	COW_ASB
Nickel (Ni), total in water	0.003539 ± 12.2%	mg/L	10/18/2020	COW_ASB
Phosphorus (P), total in water	0.1804 ± 4.5%	mg/L	10/18/2020	COW_ASB
Potassium (K), total in water	16.509 ± 18.3%	mg/L	10/18/2020	COW_ASB
Selenium (Se), total in water	0.00065 ± 8.0%	mg/L	10/18/2020	COW_ASB
Silver (Ag), total in water	-0.00188 ± 7.5%	mg/L	10/18/2020	COW_ASB
Sodium (Na), total in water	175.87 ± 9.2%	mg/L	10/18/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/18/2020	COW_ASB
Zinc (Zn), total in water	0.00894 ± 10.7%	mg/L	10/18/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	265	mg/L	10/22/2020	COW_ASB
Total Hardness, calculated in water	515	mg/L	10/22/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	101.00 ± 4.4%	NTU	10/9/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	211.000	mg/L	10/27/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	160.00	mg/L	10/27/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/27/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/27/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/27/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/27/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/27/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	94.100	%	10/27/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/27/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/27/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/27/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/27/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/27/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/27/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/27/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/27/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/27/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/27/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/27/2020	ALS
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Surrogate: 1,4-Difluorobenzene	98.8	%	10/27/2020	ALS
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Acetone	<0.050	mg/L	10/27/2020	ALS
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Benzene	<0.00050	mg/L	10/27/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/27/2020	ALS
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Bromoform	<0.0010	mg/L	10/27/2020	ALS
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Bromomethane	<0.001	mg/L	10/27/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/27/2020	ALS
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Chloroethane	<0.001	mg/L	10/27/2020	ALS
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Chloroform	<0.00050	mg/L	10/27/2020	ALS
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Chloromethane	<0.005	mg/L	10/27/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/27/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/27/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/27/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/27/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/27/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/27/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/27/2020	ALS
Styrene	<0.0010	mg/L	10/27/2020	ALS
Toluene	<0.00050	mg/L	10/27/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/27/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/27/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/27/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/27/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/27/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	10/27/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/27/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/27/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/27/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337199
Sample Description : GWQ18-W13
Sample Date : October 5, 2020
Sample Received : October 5, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	395 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, total to pH 4.5	395 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.160 ± 16.9%	mg/L		10/20/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.011 ± 7.8%	mg/L		10/20/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	836 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	975 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	47.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4570 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.00 ± 0.07 units	units		10/6/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3170 ± 6.5%	mg/L		10/7/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3660 ± 6.2%	mg/L		10/7/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	488.0	mg/L		10/7/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	5.4 ± 13%	mg/L		10/7/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	5.0 ± 13%	mg/L		10/7/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0127 ± 9.8%	mg/L		10/15/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/15/2020	COW_ASB
Arsenic (As), soluble in water	0.0005 ± 8.1%	mg/L		10/15/2020	COW_ASB
Boron (B), soluble in water	0.8680 ± 24.2%	mg/L		10/15/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/15/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	300.3 ± 20.9%	mg/L	10/15/2020	COW_ASB
Chromium (Cr), soluble in water	0.00010 ± 12.8%	mg/L	10/15/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	10/15/2020	COW_ASB
Iron (Fe), soluble in water	1.479 ± 9.7%	mg/L	10/15/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/15/2020	COW_ASB
Magnesium (Mg), soluble in water	259.0 ± 10.5%	mg/L	10/15/2020	COW_ASB
Manganese (Mn), soluble in water	0.02502 ± 11.2%	mg/L	10/15/2020	COW_ASB
Nickel (Ni), soluble in water	0.00185 ± 12.2%	mg/L	10/15/2020	COW_ASB
Potassium (K), soluble in water	30.70 ± 18.3%	mg/L	10/15/2020	COW_ASB
Sodium (Na), soluble in water	970.8 ± 9.2%	mg/L	10/15/2020	COW_ASB
Uranium (U), soluble in water	0.0146 ± 10.0%	mg/L	10/15/2020	COW_ASB
Zinc (Zn), soluble in water	0.0020 ± 10.7	mg/L	10/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.16108 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.001578 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.000493 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.013401 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.80281 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	268.00 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00090 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.000752 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	2.3659 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	233.78 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.03877 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.003733 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0111 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	24.909 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	0.00029 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00316 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	970.77 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.015255 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.00678 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	669	mg/L	10/14/2020	COW_ASB
Total Hardness, calculated in water	1630	mg/L	10/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	24.00 ± 4.4%	NTU	10/6/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	933.000	mg/L	10/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	930.00	mg/L	10/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	114.700	%	10/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.7	%	10/20/2020	ALS
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Acetone	<0.050	mg/L	10/20/2020	ALS
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Benzene	<0.00050	mg/L	10/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/20/2020	ALS
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Bromoform	<0.0010	mg/L	10/20/2020	ALS
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Bromomethane	<0.001	mg/L	10/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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Chloroethane	<0.001	mg/L	10/20/2020	ALS
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Chloroform	<0.00050	mg/L	10/20/2020	ALS
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Chloromethane	<0.005	mg/L	10/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/20/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/20/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/20/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/20/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/20/2020	ALS
Styrene	<0.0010	mg/L	10/20/2020	ALS
Toluene	<0.00050	mg/L	10/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/20/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	10/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/20/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337200
Sample Description : GWQ18-W16
Sample Date : October 5, 2020
Sample Received : October 5, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	536 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, total to pH 4.5	536 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.262 ± 16.9%	mg/L		10/20/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.028 ± 7.8%	mg/L		10/20/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1270 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	2460 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	130 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	7640 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.14 ± 0.07 units	units		10/6/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	6370 ± 6.5%	mg/L		10/7/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	8760 ± 6.2%	mg/L		10/7/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	2393	mg/L		10/7/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	12.1 ± 13%	mg/L		10/7/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	14.5 ± 13%	mg/L		10/7/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.2759 ± 9.8%	mg/L		10/15/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/15/2020	COW_ASB
Arsenic (As), soluble in water	0.0006 ± 8.1%	mg/L		10/15/2020	COW_ASB
Boron (B), soluble in water	0.9267 ± 24.2%	mg/L		10/15/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/15/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	882.2 ± 20.9%	mg/L	10/15/2020	COW_ASB
Chromium (Cr), soluble in water	0.00084 ± 12.8%	mg/L	10/15/2020	COW_ASB
Copper (Cu), Soluble in water	0.00142 ± 12.1%	mg/L	10/15/2020	COW_ASB
Iron (Fe), soluble in water	4.974 ± 9.7%	mg/L	10/15/2020	COW_ASB
Lead (Pb), soluble in water	0.00010 ± 8.3%	mg/L	10/15/2020	COW_ASB
Magnesium (Mg), soluble in water	1000 ± 10.5%	mg/L	10/15/2020	COW_ASB
Manganese (Mn), soluble in water	0.14066 ± 11.2%	mg/L	10/15/2020	COW_ASB
Nickel (Ni), soluble in water	0.00585 ± 12.2%	mg/L	10/15/2020	COW_ASB
Potassium (K), soluble in water	41.31 ± 18.3%	mg/L	10/15/2020	COW_ASB
Sodium (Na), soluble in water	1833 ± 9.2%	mg/L	10/15/2020	COW_ASB
Uranium (U), soluble in water	0.0108 ± 10.0%	mg/L	10/15/2020	COW_ASB
Zinc (Zn), soluble in water	0.0137 ± 10.7	mg/L	10/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	9.5763 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.001447 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.001129 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.12108 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.17466 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	0.000041 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	813.00 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.02525 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.084786 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	39.656 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.008781 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	647.61 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.87119 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.032857 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.7820 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	32.345 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	0.00030 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	0.00012 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	904.06 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.013993 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.34964 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	2030	mg/L	10/14/2020	COW_ASB
Total Hardness, calculated in water	4700	mg/L	10/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	1031.00 ± 4.4%	NTU	10/6/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1560.000	mg/L	10/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	2500.00	mg/L	10/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	115.100	%	10/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	96.3	%	10/20/2020	ALS
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Acetone	<0.050	mg/L	10/20/2020	ALS
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Benzene	<0.00050	mg/L	10/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/20/2020	ALS
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Bromoform	<0.0010	mg/L	10/20/2020	ALS
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Bromomethane	<0.001	mg/L	10/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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Chloroethane	<0.001	mg/L	10/20/2020	ALS
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Chloroform	<0.00050	mg/L	10/20/2020	ALS
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Chloromethane	<0.005	mg/L	10/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/20/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/20/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/20/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/20/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/20/2020	ALS
Styrene	<0.0010	mg/L	10/20/2020	ALS
Toluene	<0.00050	mg/L	10/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/20/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	10/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/20/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337201
Sample Description : GWQ18-W17
Sample Date : September 28, 2020
Sample Received : September 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	384 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, total to pH 4.5	384 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.137 ± 16.9%	mg/L		10/1/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.081 ± 7.8%	mg/L		10/1/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/1/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	762 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	715 ± 10%	mg/L		10/5/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	35.0 ± 6.1%	mg/L		10/9/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	3970 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.38 ± 0.07 units	units		9/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	2570 ± 6.5%	mg/L		10/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	2820 ± 6.2%	mg/L		9/30/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	255.0	mg/L		10/6/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	4.1 ± 13%	mg/L		10/1/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	3.4 ± 13%	mg/L		10/1/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0134 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	0.0003 ± 8.1%	mg/L		10/6/2020	COW_ASB
Boron (B), soluble in water	0.4687 ± 24.2%	mg/L		10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	2161 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	0.00008 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	0.00025 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	0.6190 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	1603 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.14591 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00129 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	20.49 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	3945 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	0.0052 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.0023 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.09709 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.000198 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.015361 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.48824 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	222.18 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00073 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.001974 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.86004 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	175.91 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.15117 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.001872 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0110 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	20.991 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	0.00068 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00235 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	405.34 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.005516 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.00963 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	555	mg/L	10/15/2020	COW_ASB
Total Hardness, calculated in water	1280	mg/L	10/15/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	9.67 ± 4.4%	NTU	9/28/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	771.000	mg/L	10/27/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	706.00	mg/L	10/27/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/27/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/27/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/27/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/27/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/27/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.200	%	10/27/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/27/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/27/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/27/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/27/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/27/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/27/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/27/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/27/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/27/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/27/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/27/2020	ALS
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Surrogate: 1,4-Difluorobenzene	86.6	%	10/27/2020	ALS
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Acetone	<0.050	mg/L	10/27/2020	ALS
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Benzene	<0.00050	mg/L	10/27/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/27/2020	ALS
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Bromoform	<0.0010	mg/L	10/27/2020	ALS
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Bromomethane	<0.001	mg/L	10/27/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/27/2020	ALS
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Chloroethane	<0.001	mg/L	10/27/2020	ALS
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Chloroform	<0.00050	mg/L	10/27/2020	ALS
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Chloromethane	<0.005	mg/L	10/27/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/27/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/27/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/27/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/27/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/27/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/27/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/27/2020	ALS
Styrene	<0.0010	mg/L	10/27/2020	ALS
Toluene	<0.00050	mg/L	10/27/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/27/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/27/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/27/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/27/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/27/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/27/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/27/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/27/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/27/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337202
Sample Description : GWQ18-W18
Sample Date : September 28, 2020
Sample Received : September 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	412 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, total to pH 4.5	412 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.173 ± 16.9%	mg/L		10/1/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.053 ± 7.8%	mg/L		10/1/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/1/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	734 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	344 ± 10%	mg/L		10/5/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	40.0 ± 6.1%	mg/L		10/9/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2850 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.34 ± 0.07 units	units		9/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1700 ± 6.5%	mg/L		10/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	2150 ± 6.2%	mg/L		9/30/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	450.0	mg/L		10/6/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.6 ± 13%	mg/L		10/1/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	2.1 ± 13%	mg/L		10/1/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0463 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	0.0004 ± 8.1%	mg/L		10/6/2020	COW_ASB
Boron (B), soluble in water	0.5355 ± 24.2%	mg/L		10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	1590 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	0.00013 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	1.045 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	1075 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.04103 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00085 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	18.76 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	3328 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	0.0026 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.0018 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.94566 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.000434 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.021118 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.40540 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	158.13 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00252 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.002443 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	3.1543 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.000717 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	106.39 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.08527 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.003054 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0685 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	18.434 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	0.00025 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00273 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	282.36 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.002604 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.01228 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	395	mg/L	10/15/2020	COW_ASB
Total Hardness, calculated in water	833	mg/L	10/15/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	111.00 ± 4.4%	NTU	9/28/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	547.000	mg/L	10/27/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	323.00	mg/L	10/27/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/27/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/27/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/27/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/27/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/27/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.100	%	10/27/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/27/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/27/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/27/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/27/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/27/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/27/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/27/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/27/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/27/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/27/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/27/2020	ALS
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Surrogate: 1,4-Difluorobenzene	89.3	%	10/27/2020	ALS
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Acetone	<0.050	mg/L	10/27/2020	ALS
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Benzene	<0.00050	mg/L	10/27/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/27/2020	ALS
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Bromoform	<0.0010	mg/L	10/27/2020	ALS
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Bromomethane	<0.001	mg/L	10/27/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/27/2020	ALS
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Chloroethane	<0.001	mg/L	10/27/2020	ALS
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Chloroform	<0.00050	mg/L	10/27/2020	ALS
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Chloromethane	<0.005	mg/L	10/27/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/27/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/27/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/27/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/27/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/27/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/27/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/27/2020	ALS
Styrene	<0.0010	mg/L	10/27/2020	ALS
Toluene	<0.00050	mg/L	10/27/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/27/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/27/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/27/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/27/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/27/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	10/27/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/27/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/27/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/27/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337203
Sample Description : GWQ18-100
Sample Date : September 29, 2020
Sample Received : September 29, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	416 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, total to pH 4.5	416 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.218 ± 16.9%	mg/L		10/1/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.077 ± 7.8%	mg/L		10/1/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/1/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	834 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	687 ± 10%	mg/L		10/5/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	37.0 ± 6.1%	mg/L		10/9/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4190 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.20 ± 0.07 units	units		9/29/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	2730 ± 6.5%	mg/L		10/1/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3220 ± 6.2%	mg/L		10/1/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	494.0	mg/L		10/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	3.9 ± 13%	mg/L		10/1/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	3.9 ± 13%	mg/L		10/1/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.1452 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	<0.0002 ± 8.1%	mg/L		10/6/2020	COW_ASB
Boron (B), soluble in water	0.4832 ± 24.2%	mg/L		10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	2620 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	0.00029 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	0.00037 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	0.1344 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	1830 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.19126 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00147 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	23.71 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	4305 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	0.0068 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.0014 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	1.5794 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.000263 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.027461 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.35107 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	272.53 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00401 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.005077 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	2.4515 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.001318 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	201.98 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.26381 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.005207 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0804 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	21.698 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	0.00030 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00247 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	422.10 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.007278 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.01188 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	681	mg/L	10/15/2020	COW_ASB
Total Hardness, calculated in water	1510	mg/L	10/15/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	148.00 ± 4.4%	NTU	9/29/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	811.000	mg/L	10/7/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	682.00	mg/L	10/7/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/7/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/7/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/7/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/7/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/7/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	92.700	%	10/7/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/7/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/7/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/7/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/7/2020	ALS
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Surrogate: 1,4-Difluorobenzene	88.1	%	10/7/2020	ALS
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Acetone	<0.050	mg/L	10/7/2020	ALS
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Benzene	<0.00050	mg/L	10/7/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/7/2020	ALS
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Bromoform	<0.0010	mg/L	10/7/2020	ALS
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Bromomethane	<0.001	mg/L	10/7/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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Chloroethane	<0.001	mg/L	10/7/2020	ALS
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Chloroform	<0.00050	mg/L	10/7/2020	ALS
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Chloromethane	<0.005	mg/L	10/7/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/7/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/7/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/7/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/7/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/7/2020	ALS
Styrene	<0.0010	mg/L	10/7/2020	ALS
Toluene	<0.00050	mg/L	10/7/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/7/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/7/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/7/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/7/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	10/7/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/7/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337204
Sample Description : GWQ36-W2
Sample Date : October 1, 2020
Sample Received : October 1, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	277 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, total to pH 4.5	277 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.098 ± 16.9%	mg/L		10/6/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/6/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/6/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		10/15/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	44.0 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	95.0 ± 10%	mg/L		10/5/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/22/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	760 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.70 ± 0.07 units	units		10/1/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	433 ± 6.5%	mg/L		10/7/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	498 ± 6.2%	mg/L		10/7/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	65.0	mg/L		10/7/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	0.7 ± 13%	mg/L		10/14/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.0 ± 13%	mg/L		10/14/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	0.0031 ± 8.1%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Boron (B), soluble in water	0.0925 ± 24.2%	mg/L	10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	10/6/2020	COW_ASB
Calcium (Ca), soluble in water	578.1 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	0.1530 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	49.54 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.01609 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00053 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	4.488 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	34.86 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	0.0022 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.1909 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.02003 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.003259 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.002585 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.030042 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.11359 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	60.435 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00151 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.005509 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.32011 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.000873 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	54.291 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.01657 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000743 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0354 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	4.928 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00616 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	37.751 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.001468 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.97399 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	151	mg/L	10/14/2020	COW_ASB
Total Hardness, calculated in water	375	mg/L	10/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	5.90 ± 4.4%	NTU	10/2/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	45.800	mg/L	10/9/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	83.30	mg/L	10/9/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/9/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/9/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/9/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/9/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/9/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	89.900	%	10/9/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/9/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/9/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/9/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/9/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/9/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/9/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/9/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/9/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/9/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/9/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/9/2020	ALS
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Surrogate: 1,4-Difluorobenzene	96.2	%	10/9/2020	ALS
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Acetone	<0.050	mg/L	10/9/2020	ALS
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Benzene	<0.00050	mg/L	10/9/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/9/2020	ALS
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Bromoform	<0.0010	mg/L	10/9/2020	ALS
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Bromomethane	<0.001	mg/L	10/9/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/9/2020	ALS
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Chloroethane	<0.001	mg/L	10/9/2020	ALS
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Chloroform	<0.00050	mg/L	10/9/2020	ALS
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Chloromethane	<0.005	mg/L	10/9/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/9/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/9/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/9/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/9/2020	ALS
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VOC plus F1 by GCMS

Ethylbenzene	<0.00050	mg/L	10/9/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	10/9/2020	ALS
o-Xylene	<0.0005	mg/L	10/9/2020	ALS
Styrene	<0.0010	mg/L	10/9/2020	ALS
Toluene	<0.00050	mg/L	10/9/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/9/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/9/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/9/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/9/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/9/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/9/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/9/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/9/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/9/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Sample No. : 337205
Sample Description : GWQ36-W4
Sample Date : September 30, 2020
Sample Received : September 30, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	286 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, total to pH 4.5	286 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.142 ± 16.9%	mg/L		10/6/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.003 ± 7.8%	mg/L		10/6/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/6/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	68.0 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	100 ± 10%	mg/L		10/5/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/22/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	822 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.66 ± 0.07 units	units		9/30/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	483 ± 6.5%	mg/L		10/7/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	728 ± 6.2%	mg/L		10/7/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	245.0	mg/L		10/7/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.0 ± 13%	mg/L		10/2/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.4 ± 13%	mg/L		10/2/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.2191 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	0.0020 ± 8.1%	mg/L		10/6/2020	COW_ASB
Boron (B), soluble in water	0.1074 ± 24.2%	mg/L		10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	661.7 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	0.00061 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	0.00029 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	0.2849 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	0.00116 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	541.5 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.02129 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00051 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	4.736 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	47.19 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	0.0019 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.9313 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.41912 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.000781 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.001507 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.027528 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.09864 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	72.409 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00140 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.001535 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.87193 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.002897 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	58.179 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.03607 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.001244 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0747 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	4.375 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00317 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	47.477 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.001889 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	1.5159 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	181	mg/L	10/15/2020	COW_ASB
Total Hardness, calculated in water	420	mg/L	10/15/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	55.50 ± 4.4%	NTU	9/30/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	63.600	mg/L	10/8/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	93.40	mg/L	10/8/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/8/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/8/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/8/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/8/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/8/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	90.500	%	10/8/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/8/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/8/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/8/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/8/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/8/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/8/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/8/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/8/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/8/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/8/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/8/2020	ALS
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Surrogate: 1,4-Difluorobenzene	95.8	%	10/8/2020	ALS
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Acetone	<0.050	mg/L	10/8/2020	ALS
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Benzene	<0.00050	mg/L	10/8/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/8/2020	ALS
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Bromoform	<0.0010	mg/L	10/8/2020	ALS
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Bromomethane	<0.001	mg/L	10/8/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/8/2020	ALS
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Chloroethane	<0.001	mg/L	10/8/2020	ALS
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Chloroform	<0.00050	mg/L	10/8/2020	ALS
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Chloromethane	<0.005	mg/L	10/8/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/8/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/8/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/8/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/8/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/8/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/8/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/8/2020	ALS
Styrene	<0.0010	mg/L	10/8/2020	ALS
Toluene	<0.00050	mg/L	10/8/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/8/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/8/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/8/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/8/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/8/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.005	mg/L	10/8/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	>2420	MPN/100mL	10/8/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	>2420	MPN/100mL	10/8/2020	ALS
Total Coliforms by QT97	>2420	MPN/100mL	10/8/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337206
Sample Description : GWQ36-W5
Sample Date : September 29, 2020
Sample Received : September 29, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	282 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, total to pH 4.5	282 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.155 ± 16.9%	mg/L		10/1/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/1/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/1/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		10/6/2020	COW_ASB
Total Nitrogen by High Temperature Combustion					
Total Nitrogen	<0.3 ± 15%	mg/L		10/2/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	80.0 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	134 ± 10%	mg/L		10/5/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/9/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	901 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.62 ± 0.07 units	units		9/30/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	540 ± 6.5%	mg/L		10/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	608 ± 6.2%	mg/L		10/1/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	68.0	mg/L		10/6/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.4 ± 13%	mg/L		10/2/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.3 ± 13%	mg/L		10/2/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L	10/6/2020	COW_ASB
Arsenic (As), soluble in water	0.0020 ± 8.1%	mg/L	10/6/2020	COW_ASB
Boron (B), soluble in water	0.1063 ± 24.2%	mg/L	10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	10/6/2020	COW_ASB
Calcium (Ca), soluble in water	634.5 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	0.1081 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	49.57 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.02108 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00033 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	5.014 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	673.4 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	0.0015 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.2689 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00690 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.000114 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.001859 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.022714 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.12610 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	63.841 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00089 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.000959 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.54311 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.002432 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	54.907 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.02450 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000586 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0069 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	5.197 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00298 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	64.405 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.002008 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	1.1374 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	159	mg/L	10/15/2020	COW_ASB
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Hardness, Calcium & Total by Calculation

Total Hardness, calculated in water	386	mg/L	10/15/2020	COW_ASB
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Turbidity in Laboratory by Nephelometric Method

Turbidity in water	4.52 ± 4.4%	NTU	9/30/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	75.700	mg/L	10/7/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	119.00	mg/L	10/7/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/7/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/7/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/7/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/7/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/7/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	90.300	%	10/7/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/7/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/7/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/7/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/7/2020	ALS
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Surrogate: 1,4-Difluorobenzene	96.7	%	10/7/2020	ALS
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Acetone	<0.050	mg/L	10/7/2020	ALS
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Benzene	<0.00050	mg/L	10/7/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/7/2020	ALS
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Bromoform	<0.0010	mg/L	10/7/2020	ALS
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Bromomethane	<0.001	mg/L	10/7/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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Chloroethane	<0.001	mg/L	10/7/2020	ALS
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Chloroform	<0.00050	mg/L	10/7/2020	ALS
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Chloromethane	<0.005	mg/L	10/7/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

Dichlorodifluoromethane	<0.001	mg/L	10/7/2020	ALS
Dichloromethane	<0.00600	mg/L	10/7/2020	ALS
Ethylbenzene	<0.00050	mg/L	10/7/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	10/7/2020	ALS
o-Xylene	<0.0005	mg/L	10/7/2020	ALS
Styrene	<0.0010	mg/L	10/7/2020	ALS
Toluene	<0.00050	mg/L	10/7/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/7/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/7/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/7/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/7/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/7/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
Total Coliforms by QT97	>2420	MPN/100mL	10/7/2020	ALS

Sample No. : 337207
Sample Description : GWQ36-W6
Sample Date : October 5, 2020
Sample Received : October 5, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	279 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, total to pH 4.5	279 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.121 ± 16.9%	mg/L		10/20/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.004 ± 7.8%	mg/L		10/20/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	50.0 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	66.0 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	768 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.66 ± 0.07 units	units		10/6/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	449 ± 6.5%	mg/L		10/7/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	510 ± 6.2%	mg/L		10/7/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	61.0	mg/L		10/8/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.4 ± 13%	mg/L		10/7/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.0 ± 13%	mg/L		10/7/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0059 ± 9.8%	mg/L		10/15/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/15/2020	COW_ASB
Arsenic (As), soluble in water	0.0023 ± 8.1%	mg/L		10/15/2020	COW_ASB
Boron (B), soluble in water	0.1074 ± 24.2%	mg/L		10/15/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/15/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	62.11 ± 20.9%	mg/L	10/15/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	10/15/2020	COW_ASB
Copper (Cu), Soluble in water	0.00026 ± 12.1%	mg/L	10/15/2020	COW_ASB
Iron (Fe), soluble in water	0.1003 ± 9.7%	mg/L	10/15/2020	COW_ASB
Lead (Pb), soluble in water	0.00311 ± 8.3%	mg/L	10/15/2020	COW_ASB
Magnesium (Mg), soluble in water	53.84 ± 10.5%	mg/L	10/15/2020	COW_ASB
Manganese (Mn), soluble in water	0.01688 ± 11.2%	mg/L	10/15/2020	COW_ASB
Nickel (Ni), soluble in water	0.00027 ± 12.2%	mg/L	10/15/2020	COW_ASB
Potassium (K), soluble in water	5.067 ± 18.3%	mg/L	10/15/2020	COW_ASB
Sodium (Na), soluble in water	45.56 ± 9.2%	mg/L	10/15/2020	COW_ASB
Uranium (U), soluble in water	0.0022 ± 10.0%	mg/L	10/15/2020	COW_ASB
Zinc (Zn), soluble in water	0.6853 ± 10.7	mg/L	10/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.01906 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.002040 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.022767 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.11112 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	53.403 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00028 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.000619 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.17099 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.009880 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	48.746 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.01661 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000531 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0075 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	4.271 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00331 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	42.539 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.002272 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	1.4225 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	133	mg/L	10/14/2020	COW_ASB
Total Hardness, calculated in water	334	mg/L	10/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	8.62 ± 4.4%	NTU	10/6/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	50.000	mg/L	10/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	83.50	mg/L	10/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	113.900	%	10/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	96.3	%	10/20/2020	ALS
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Acetone	<0.050	mg/L	10/20/2020	ALS
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Benzene	<0.00050	mg/L	10/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/20/2020	ALS
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Bromoform	<0.0010	mg/L	10/20/2020	ALS
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Bromomethane	<0.001	mg/L	10/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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Chloroethane	<0.001	mg/L	10/20/2020	ALS
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Chloroform	<0.00050	mg/L	10/20/2020	ALS
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Chloromethane	<0.005	mg/L	10/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/20/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/20/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/20/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/20/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/20/2020	ALS
Styrene	<0.0010	mg/L	10/20/2020	ALS
Toluene	<0.00050	mg/L	10/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/20/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	10/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
Total Coliforms by QT97	1	MPN/100mL	10/20/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337208
Sample Description : GWQ36-W8
Sample Date : September 30, 2020
Sample Received : September 30, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	277 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, total to pH 4.5	277 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.165 ± 16.9%	mg/L		10/6/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/6/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/6/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	92.0 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	130 ± 10%	mg/L		10/5/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/22/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	939 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.77 ± 0.07 units	units		9/30/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	568 ± 6.5%	mg/L		10/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	632 ± 6.2%	mg/L		10/7/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	64.0	mg/L		10/8/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.4 ± 13%	mg/L		10/2/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.3 ± 13%	mg/L		10/2/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0093 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	0.0013 ± 8.1%	mg/L		10/6/2020	COW_ASB
Boron (B), soluble in water	0.1098 ± 24.2%	mg/L		10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	649.4 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	0.00065 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	0.00017 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	0.0734 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	536.4 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.01887 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00043 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	5.153 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	670.5 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	0.0015 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.0010 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.02441 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.000714 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.001135 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.031225 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.13097 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	62.687 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00089 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.000742 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.12263 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	54.574 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.01850 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000722 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0039 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	4.862 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00320 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	60.778 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.001458 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.01213 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	157	mg/L	10/15/2020	COW_ASB
Total Hardness, calculated in water	381	mg/L	10/15/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	7.65 ± 4.4%	NTU	9/30/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	92.300	mg/L	10/8/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	124.00	mg/L	10/8/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/8/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/8/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/8/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/8/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/8/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	90.700	%	10/8/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/8/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/8/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/8/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/8/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/8/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/8/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/8/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/8/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/8/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/8/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/8/2020	ALS
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Surrogate: 1,4-Difluorobenzene	95.9	%	10/8/2020	ALS
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Acetone	<0.050	mg/L	10/8/2020	ALS
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Benzene	<0.00050	mg/L	10/8/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/8/2020	ALS
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Bromoform	<0.0010	mg/L	10/8/2020	ALS
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Bromomethane	<0.001	mg/L	10/8/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/8/2020	ALS
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Chloroethane	<0.001	mg/L	10/8/2020	ALS
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Chloroform	<0.00050	mg/L	10/8/2020	ALS
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Chloromethane	<0.005	mg/L	10/8/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/8/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/8/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/8/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/8/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/8/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/8/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/8/2020	ALS
Styrene	<0.0010	mg/L	10/8/2020	ALS
Toluene	<0.00050	mg/L	10/8/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/8/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/8/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/8/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/8/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/8/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	10/8/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/8/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/8/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/8/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337209
Sample Description : GWQ36-W7
Sample Date : September 30, 2020
Sample Received : September 30, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	278 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, total to pH 4.5	278 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.132 ± 16.9%	mg/L		10/6/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.004 ± 7.8%	mg/L		10/6/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/6/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	56.0 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	90.8 ± 10%	mg/L		10/7/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/22/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	736 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.77 ± 0.07 units	units		9/30/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	433 ± 6.5%	mg/L		10/7/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	500 ± 6.2%	mg/L		10/7/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	67.0	mg/L		10/7/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.1 ± 13%	mg/L		10/2/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.9 ± 13%	mg/L		10/2/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0018 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	0.0032 ± 8.1%	mg/L		10/6/2020	COW_ASB
Boron (B), soluble in water	0.0904 ± 24.2%	mg/L		10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	571.5 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	0.00025 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	0.1209 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	0.00041 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	47.30 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.01421 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00085 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	4.372 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	35.45 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	0.0018 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.5607 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00521 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.000147 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.003178 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.027851 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.10747 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	54.961 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00056 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.000936 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.17179 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.001685 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	49.960 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.01440 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000685 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0177 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	4.078 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00321 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	35.956 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.002046 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	1.2758 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	137	mg/L	10/15/2020	COW_ASB
Total Hardness, calculated in water	343	mg/L	10/15/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	6.64 ± 4.4%	NTU	9/30/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	46.900	mg/L	10/8/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	81.40	mg/L	10/8/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/8/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/8/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/8/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/8/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/8/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.500	%	10/8/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/8/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/8/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/8/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/8/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/8/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/8/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/8/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/8/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/8/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/8/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/8/2020	ALS
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Surrogate: 1,4-Difluorobenzene	95.8	%	10/8/2020	ALS
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Acetone	<0.050	mg/L	10/8/2020	ALS
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Benzene	<0.00050	mg/L	10/8/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/8/2020	ALS
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Bromoform	<0.0010	mg/L	10/8/2020	ALS
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Bromomethane	<0.001	mg/L	10/8/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/8/2020	ALS
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Chloroethane	<0.001	mg/L	10/8/2020	ALS
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Chloroform	<0.00050	mg/L	10/8/2020	ALS
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Chloromethane	<0.005	mg/L	10/8/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/8/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/8/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/8/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/8/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/8/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/8/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/8/2020	ALS
Styrene	<0.0010	mg/L	10/8/2020	ALS
Toluene	<0.00050	mg/L	10/8/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/8/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/8/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/8/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/8/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/8/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	10/8/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/8/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/8/2020	ALS
Total Coliforms by QT97	921	MPN/100mL	10/8/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337210
Sample Description : GWQ36-W10
Sample Date : October 6, 2020
Sample Received : October 6, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	293 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, total to pH 4.5	293 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.185 ± 16.9%	mg/L		10/20/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.003 ± 7.8%	mg/L		10/20/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.015 ± 7.5%	mg/L		10/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	98.0 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	159 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1050 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.61 ± 0.07 units	units		10/7/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	644 ± 6.5%	mg/L		10/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	726 ± 6.2%	mg/L		10/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	82.0	mg/L		10/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.4 ± 13%	mg/L		10/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.8 ± 13%	mg/L		10/9/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		10/15/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/15/2020	COW_ASB
Arsenic (As), soluble in water	0.0008 ± 8.1%	mg/L		10/15/2020	COW_ASB
Boron (B), soluble in water	0.1357 ± 24.2%	mg/L		10/15/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/15/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	78.05 ± 20.9%	mg/L	10/15/2020	COW_ASB
Chromium (Cr), soluble in water	0.00206 ± 12.8%	mg/L	10/15/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	10/15/2020	COW_ASB
Iron (Fe), soluble in water	0.0975 ± 9.7%	mg/L	10/15/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/15/2020	COW_ASB
Magnesium (Mg), soluble in water	70.89 ± 10.5%	mg/L	10/15/2020	COW_ASB
Manganese (Mn), soluble in water	0.02086 ± 11.2%	mg/L	10/15/2020	COW_ASB
Nickel (Ni), soluble in water	0.00027 ± 12.2%	mg/L	10/15/2020	COW_ASB
Potassium (K), soluble in water	5.648 ± 18.3%	mg/L	10/15/2020	COW_ASB
Sodium (Na), soluble in water	75.80 ± 9.2%	mg/L	10/15/2020	COW_ASB
Uranium (U), soluble in water	0.0021 ± 10.0%	mg/L	10/15/2020	COW_ASB
Zinc (Zn), soluble in water	0.0016 ± 10.7	mg/L	10/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00443 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.000292 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.000638 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.024100 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.14329 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	68.979 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00022 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.001052 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.11807 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	61.422 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.02137 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000473 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0013 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	4.983 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00313 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	70.394 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.001761 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.00638 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	172	mg/L	10/14/2020	COW_ASB
Total Hardness, calculated in water	425	mg/L	10/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	1.48 ± 4.4%	NTU	10/7/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	93.200	mg/L	10/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	154.00	mg/L	10/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	94.000	%	10/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.1	%	10/20/2020	ALS
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Acetone	<0.050	mg/L	10/20/2020	ALS
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Benzene	<0.00050	mg/L	10/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/20/2020	ALS
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Bromoform	<0.0010	mg/L	10/20/2020	ALS
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Bromomethane	<0.001	mg/L	10/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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Chloroethane	<0.001	mg/L	10/20/2020	ALS
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Chloroform	<0.00050	mg/L	10/20/2020	ALS
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Chloromethane	<0.005	mg/L	10/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/20/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/20/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/20/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/20/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/20/2020	ALS
Styrene	<0.0010	mg/L	10/20/2020	ALS
Toluene	<0.00050	mg/L	10/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/20/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	10/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/20/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337211
Sample Description : GWQ36-W14
Sample Date : October 5, 2020
Sample Received : October 5, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	285 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, total to pH 4.5	285 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.142 ± 16.9%	mg/L		10/20/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/20/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	104 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	124 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	901 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.62 ± 0.07 units	units		10/6/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	548 ± 6.5%	mg/L		10/7/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	604 ± 6.2%	mg/L		10/7/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	56.0	mg/L		10/7/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.2 ± 13%	mg/L		10/7/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.0 ± 13%	mg/L		10/7/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0026 ± 9.8%	mg/L		10/15/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/15/2020	COW_ASB
Arsenic (As), soluble in water	0.0031 ± 8.1%	mg/L		10/15/2020	COW_ASB
Boron (B), soluble in water	0.1204 ± 24.2%	mg/L		10/15/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/15/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	68.17 ± 20.9%	mg/L	10/15/2020	COW_ASB
Chromium (Cr), soluble in water	0.00005 ± 12.8%	mg/L	10/15/2020	COW_ASB
Copper (Cu), Soluble in water	0.00025 ± 12.1%	mg/L	10/15/2020	COW_ASB
Iron (Fe), soluble in water	0.0958 ± 9.7%	mg/L	10/15/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/15/2020	COW_ASB
Magnesium (Mg), soluble in water	58.46 ± 10.5%	mg/L	10/15/2020	COW_ASB
Manganese (Mn), soluble in water	0.02454 ± 11.2%	mg/L	10/15/2020	COW_ASB
Nickel (Ni), soluble in water	0.00031 ± 12.2%	mg/L	10/15/2020	COW_ASB
Potassium (K), soluble in water	5.326 ± 18.3%	mg/L	10/15/2020	COW_ASB
Sodium (Na), soluble in water	63.72 ± 9.2%	mg/L	10/15/2020	COW_ASB
Uranium (U), soluble in water	0.0020 ± 10.0%	mg/L	10/15/2020	COW_ASB
Zinc (Zn), soluble in water	0.0031 ± 10.7	mg/L	10/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00791 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.000505 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.002820 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.023961 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.12916 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	59.726 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00035 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.000552 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.14501 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	51.753 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.02552 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000572 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0034 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	4.722 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00330 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	61.636 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.001626 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.00694 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	149	mg/L	10/14/2020	COW_ASB
Total Hardness, calculated in water	362	mg/L	10/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.14 ± 4.4%	NTU	10/6/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	78.000	mg/L	10/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	117.00	mg/L	10/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	114.300	%	10/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.2	%	10/20/2020	ALS
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Acetone	<0.050	mg/L	10/20/2020	ALS
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Benzene	<0.00050	mg/L	10/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/20/2020	ALS
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Bromoform	<0.0010	mg/L	10/20/2020	ALS
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Bromomethane	<0.001	mg/L	10/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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Chloroethane	<0.001	mg/L	10/20/2020	ALS
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Chloroform	<0.00050	mg/L	10/20/2020	ALS
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Chloromethane	<0.005	mg/L	10/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/20/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/20/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/20/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/20/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/20/2020	ALS
Styrene	<0.0010	mg/L	10/20/2020	ALS
Toluene	<0.00050	mg/L	10/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/20/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	10/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/20/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337212
Sample Description : GWQ36-W13
Sample Date : October 8, 2020
Sample Received : October 8, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	290 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, total to pH 4.5	290 ± 2.8%	mg/L		10/9/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/9/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.166 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.014 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	104 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	161 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1060 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.59 ± 0.07 units	units		10/9/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	627 ± 6.5%	mg/L		10/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	776 ± 6.2%	mg/L		10/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	149.0	mg/L		10/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	<0.6 ± 13%	mg/L		10/14/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	<0.1 ± 13%	mg/L		10/14/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0038 ± 9.8%	mg/L		10/27/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/27/2020	COW_ASB
Arsenic (As), soluble in water	0.0004 ± 8.1%	mg/L		10/27/2020	COW_ASB
Boron (B), soluble in water	0.1341 ± 24.2%	mg/L		10/27/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/27/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	72.32 ± 20.9%	mg/L	10/27/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	10/27/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	10/27/2020	COW_ASB
Iron (Fe), soluble in water	0.0346 ± 9.7%	mg/L	10/27/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/27/2020	COW_ASB
Magnesium (Mg), soluble in water	62.99 ± 10.5%	mg/L	10/27/2020	COW_ASB
Manganese (Mn), soluble in water	0.02100 ± 11.2%	mg/L	10/27/2020	COW_ASB
Nickel (Ni), soluble in water	0.00030 ± 12.2%	mg/L	10/27/2020	COW_ASB
Potassium (K), soluble in water	5.701 ± 18.3%	mg/L	10/27/2020	COW_ASB
Sodium (Na), soluble in water	73.24 ± 9.2%	mg/L	10/27/2020	COW_ASB
Uranium (U), soluble in water	0.0021 ± 10.0%	mg/L	10/27/2020	COW_ASB
Zinc (Zn), soluble in water	0.0030 ± 10.7	mg/L	10/27/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.58032 ± 9.8%	mg/L	10/18/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	10/18/2020	COW_ASB
Arsenic (As), total in water	0.017527 ± 8.1%	mg/L	10/18/2020	COW_ASB
Barium (Ba), total in water	1.2806 ± 11.8%	mg/L	10/18/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/18/2020	COW_ASB
Boron (B), total in water	6.4168 ± 24.2%	mg/L	10/18/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/18/2020	COW_ASB
Calcium (Ca), total in water	3546.0 ± 20.9%	mg/L	10/18/2020	COW_ASB
Chromium (Cr), total in water	0.01437 ± 12.8%	mg/L	10/18/2020	COW_ASB
Copper (Cu), total in water	0.046036 ± 12.1%	mg/L	10/18/2020	COW_ASB
Iron (Fe), total in water	6.0699 ± 9.7%	mg/L	10/18/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/18/2020	COW_ASB
Magnesium (Mg), total in water	2852.8 ± 10.5%	mg/L	10/18/2020	COW_ASB
Manganese (Mn), total in water	1.0619 ± 11.2%	mg/L	10/18/2020	COW_ASB
Nickel (Ni), total in water	0.008950 ± 12.2%	mg/L	10/18/2020	COW_ASB
Phosphorus (P), total in water	0.2594 ± 4.5%	mg/L	10/18/2020	COW_ASB
Potassium (K), total in water	274.78 ± 18.3%	mg/L	10/18/2020	COW_ASB
Selenium (Se), total in water	0.01160 ± 8.0%	mg/L	10/18/2020	COW_ASB
Silver (Ag), total in water	-0.09341 ± 7.5%	mg/L	10/18/2020	COW_ASB
Sodium (Na), total in water	3540.1 ± 9.2%	mg/L	10/18/2020	COW_ASB
Uranium (U), total in water	0.089340 ± 10.0%	mg/L	10/18/2020	COW_ASB
Zinc (Zn), total in water	0.27681 ± 10.7%	mg/L	10/18/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	8850	mg/L	10/23/2020	COW_ASB
Total Hardness, calculated in water	20600	mg/L	10/23/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	1.12 ± 4.4%	NTU	10/9/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	111.000	mg/L	10/27/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	147.00	mg/L	10/27/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/27/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/27/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/27/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/27/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/27/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	93.100	%	10/27/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/27/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/27/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/27/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/27/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/27/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/27/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/27/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/27/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/27/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/27/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/27/2020	ALS
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Surrogate: 1,4-Difluorobenzene	98.2	%	10/27/2020	ALS
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Acetone	<0.050	mg/L	10/27/2020	ALS
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Benzene	<0.00050	mg/L	10/27/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/27/2020	ALS
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Bromoform	<0.0010	mg/L	10/27/2020	ALS
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Bromomethane	<0.001	mg/L	10/27/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/27/2020	ALS
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Chloroethane	<0.001	mg/L	10/27/2020	ALS
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Chloroform	<0.00050	mg/L	10/27/2020	ALS
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Chloromethane	<0.005	mg/L	10/27/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/27/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/27/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/27/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/27/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/27/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/27/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/27/2020	ALS
Styrene	<0.0010	mg/L	10/27/2020	ALS
Toluene	<0.00050	mg/L	10/27/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/27/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/27/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/27/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/27/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/27/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	10/27/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/27/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/27/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/27/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337213
Sample Description : GWQ36-W11
Sample Date : October 5, 2020
Sample Received : October 5, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	284 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, total to pH 4.5	284 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.183 ± 16.9%	mg/L		10/20/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/20/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	82.0 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	177 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1030 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.58 ± 0.07 units	units		10/6/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	632 ± 6.5%	mg/L		10/7/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	730 ± 6.2%	mg/L		10/7/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	98.0	mg/L		10/7/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.7 ± 13%	mg/L		10/7/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.6 ± 13%	mg/L		10/7/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0079 ± 9.8%	mg/L		10/15/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/15/2020	COW_ASB
Arsenic (As), soluble in water	0.0011 ± 8.1%	mg/L		10/15/2020	COW_ASB
Boron (B), soluble in water	0.1303 ± 24.2%	mg/L		10/15/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/15/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	73.13 ± 20.9%	mg/L	10/15/2020	COW_ASB
Chromium (Cr), soluble in water	0.00041 ± 12.8%	mg/L	10/15/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	10/15/2020	COW_ASB
Iron (Fe), soluble in water	0.0981 ± 9.7%	mg/L	10/15/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/15/2020	COW_ASB
Magnesium (Mg), soluble in water	67.40 ± 10.5%	mg/L	10/15/2020	COW_ASB
Manganese (Mn), soluble in water	0.01522 ± 11.2%	mg/L	10/15/2020	COW_ASB
Nickel (Ni), soluble in water	0.00024 ± 12.2%	mg/L	10/15/2020	COW_ASB
Potassium (K), soluble in water	5.906 ± 18.3%	mg/L	10/15/2020	COW_ASB
Sodium (Na), soluble in water	74.24 ± 9.2%	mg/L	10/15/2020	COW_ASB
Uranium (U), soluble in water	0.0020 ± 10.0%	mg/L	10/15/2020	COW_ASB
Zinc (Zn), soluble in water	0.0009 ± 10.7	mg/L	10/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.01975 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.000068 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.001156 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.028783 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.14050 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	70.524 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00106 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.000550 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.18059 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	61.410 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.01611 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000500 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0029 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	5.112 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00333 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	73.751 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.001700 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.00776 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	176	mg/L	10/14/2020	COW_ASB
Total Hardness, calculated in water	429	mg/L	10/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	7.10 ± 4.4%	NTU	10/6/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	101.000	mg/L	10/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	152.00	mg/L	10/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	118.100	%	10/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	96.3	%	10/20/2020	ALS
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Acetone	<0.050	mg/L	10/20/2020	ALS
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Benzene	<0.00050	mg/L	10/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/20/2020	ALS
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Bromoform	<0.0010	mg/L	10/20/2020	ALS
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Bromomethane	<0.001	mg/L	10/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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Chloroethane	<0.001	mg/L	10/20/2020	ALS
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Chloroform	<0.00050	mg/L	10/20/2020	ALS
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Chloromethane	<0.005	mg/L	10/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/20/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/20/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/20/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/20/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/20/2020	ALS
Styrene	<0.0010	mg/L	10/20/2020	ALS
Toluene	<0.00050	mg/L	10/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/20/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.005	mg/L	10/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/20/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337214
Sample Description : GWQ36-WD24
Sample Date : September 28, 2020
Sample Received : September 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	266 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, total to pH 4.5	266 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.093 ± 16.9%	mg/L		10/1/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.026 ± 7.8%	mg/L		10/1/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/1/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	58.0 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	95.6 ± 10%	mg/L		10/7/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/9/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	761 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.72 ± 0.07 units	units		9/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	426 ± 6.5%	mg/L		10/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	476 ± 6.2%	mg/L		9/30/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	50.0	mg/L		10/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.3 ± 13%	mg/L		10/1/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.4 ± 13%	mg/L		10/1/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0030 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	0.0017 ± 8.1%	mg/L		10/6/2020	COW_ASB
Boron (B), soluble in water	0.1047 ± 24.2%	mg/L		10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	515.7 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	0.00048 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	0.6361 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	0.00006 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	46.09 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.01993 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00040 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	4.667 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	37.69 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	0.0017 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.0158 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00639 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.001594 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.028679 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.12016 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	52.307 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00043 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.001451 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.93409 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.000111 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	49.292 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.01992 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000463 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	<0.0012 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	4.360 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00301 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	40.017 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.001528 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.02620 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	131	mg/L	10/15/2020	COW_ASB
Total Hardness, calculated in water	334	mg/L	10/15/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	10.80 ± 4.4%	NTU	9/28/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	51.600	mg/L	10/7/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	84.50	mg/L	10/7/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/7/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/7/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/7/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/7/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/7/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.800	%	10/7/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/7/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/7/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/7/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/7/2020	ALS
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Surrogate: 1,4-Difluorobenzene	90.0	%	10/7/2020	ALS
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Acetone	<0.050	mg/L	10/7/2020	ALS
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Benzene	<0.00050	mg/L	10/7/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/7/2020	ALS
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Bromoform	<0.0010	mg/L	10/7/2020	ALS
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Bromomethane	<0.001	mg/L	10/7/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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Chloroethane	<0.001	mg/L	10/7/2020	ALS
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Chloroform	<0.00050	mg/L	10/7/2020	ALS
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Chloromethane	<0.005	mg/L	10/7/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/7/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/7/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/7/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/7/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/7/2020	ALS
Styrene	<0.0010	mg/L	10/7/2020	ALS
Toluene	<0.00050	mg/L	10/7/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/7/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/7/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/7/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/7/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/7/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/7/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	22.9 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	22.9	mg/L	10/15/2020	COW_ASB
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Sample No. : 337215
Sample Description : GWQ36-WD25
Sample Date : September 28, 2020
Sample Received : September 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	266 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, total to pH 4.5	266 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.089 ± 16.9%	mg/L		10/1/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.071 ± 7.8%	mg/L		10/1/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/1/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	32.0 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	78.6 ± 10%	mg/L		10/7/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/9/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	704 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.75 ± 0.07 units	units		9/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	400 ± 6.5%	mg/L		10/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	452 ± 6.2%	mg/L		9/30/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	52.0	mg/L		10/6/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.1 ± 13%	mg/L		10/1/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.8 ± 13%	mg/L		10/1/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	0.0019 ± 8.1%	mg/L		10/6/2020	COW_ASB
Boron (B), soluble in water	0.0832 ± 24.2%	mg/L		10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	534.1 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	0.00013 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	0.00668 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	0.0512 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	45.63 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.01128 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00040 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	4.312 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	29.12 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	0.0021 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.0064 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00400 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.000185 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.002211 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.031571 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.10016 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	55.696 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00036 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.010987 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.14950 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.000084 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	49.117 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.01194 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000527 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0033 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	4.125 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00308 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	31.400 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.002021 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.01580 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	139	mg/L	10/15/2020	COW_ASB
Total Hardness, calculated in water	341	mg/L	10/15/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.70 ± 4.4%	NTU	9/28/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	38.100	mg/L	10/7/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	70.60	mg/L	10/7/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/7/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/7/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/7/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/7/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/7/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.900	%	10/7/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/7/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/7/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/7/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/7/2020	ALS
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Surrogate: 1,4-Difluorobenzene	90.9	%	10/7/2020	ALS
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Acetone	<0.050	mg/L	10/7/2020	ALS
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Benzene	<0.00050	mg/L	10/7/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/7/2020	ALS
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Bromoform	<0.0010	mg/L	10/7/2020	ALS
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Bromomethane	<0.001	mg/L	10/7/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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Chloroethane	<0.001	mg/L	10/7/2020	ALS
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Chloroform	<0.00050	mg/L	10/7/2020	ALS
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Chloromethane	<0.005	mg/L	10/7/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/7/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/7/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/7/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/7/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/7/2020	ALS
Styrene	<0.0010	mg/L	10/7/2020	ALS
Toluene	<0.00050	mg/L	10/7/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/7/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/7/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/7/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/7/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/7/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/7/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337216
Sample Description : GWQ36-WD26
Sample Date : September 28, 2020
Sample Received : September 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	294 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, total to pH 4.5	294 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	<0.003 ± 16.9%	mg/L		10/1/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.011 ± 7.8%	mg/L		10/1/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/1/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	136 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	141 ± 10%	mg/L		10/7/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/9/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1110 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.82 ± 0.07 units	units		9/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	654 ± 6.5%	mg/L		10/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	722 ± 6.2%	mg/L		9/30/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	68.0	mg/L		10/6/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.4 ± 13%	mg/L		10/1/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.4 ± 13%	mg/L		10/1/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0023 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	0.0003 ± 8.1%	mg/L		10/6/2020	COW_ASB
Boron (B), soluble in water	0.1496 ± 24.2%	mg/L		10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	652.2 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	0.00115 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	0.00340 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	0.2406 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	0.00050 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	597.4 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.00318 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00122 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	6.480 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	906.7 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.4964 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00798 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.001253 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.025184 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.16957 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	64.717 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00196 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.029338 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	1.1455 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.004535 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	62.041 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.01136 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.001383 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0042 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	6.052 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00311 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	94.100 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.66384 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	162	mg/L	10/15/2020	COW_ASB
Total Hardness, calculated in water	417	mg/L	10/15/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	7.15 ± 4.4%	NTU	9/28/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	123.000	mg/L	10/7/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	134.00	mg/L	10/7/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/7/2020	ALS
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Mercury (Hg) dissolved in water	0.0000076	mg/L	10/7/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	0.00077	mg/L	10/7/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/7/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/7/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	93.000	%	10/7/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/7/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/7/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/7/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/7/2020	ALS
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Surrogate: 1,4-Difluorobenzene	92.4	%	10/7/2020	ALS
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Acetone	<0.050	mg/L	10/7/2020	ALS
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Benzene	<0.00050	mg/L	10/7/2020	ALS
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Bromodichloromethane	0.01330	mg/L	10/7/2020	ALS
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Bromoform	0.0022	mg/L	10/7/2020	ALS
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Bromomethane	<0.001	mg/L	10/7/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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Chloroethane	<0.001	mg/L	10/7/2020	ALS
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Chloroform	0.03610	mg/L	10/7/2020	ALS
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Chloromethane	0.028	mg/L	10/7/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
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Dibromochloromethane	0.0061	mg/L	10/7/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/7/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/7/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/7/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/7/2020	ALS
Styrene	<0.0010	mg/L	10/7/2020	ALS
Toluene	<0.00050	mg/L	10/7/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/7/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/7/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/7/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0578	mg/L	10/7/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/7/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/7/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337217
Sample Description : GWQ36-100
Sample Date : September 28, 2020
Sample Received : September 28, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	272 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, total to pH 4.5	272 ± 2.8%	mg/L		9/30/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		9/30/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.083 ± 16.9%	mg/L		10/1/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.069 ± 7.8%	mg/L		10/1/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/1/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	58.0 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	73.4 ± 10%	mg/L		10/7/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/9/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	699 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.76 ± 0.07 units	units		9/28/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	394 ± 6.5%	mg/L		10/2/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	446 ± 6.2%	mg/L		9/30/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	52.0	mg/L		10/6/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.4 ± 13%	mg/L		10/1/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.1 ± 13%	mg/L		10/1/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0039 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	0.0018 ± 8.1%	mg/L		10/6/2020	COW_ASB
Boron (B), soluble in water	0.0830 ± 24.2%	mg/L		10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	538.2 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	0.01083 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	0.00644 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	0.0552 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	46.32 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.01130 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00045 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	4.364 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	30.17 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	0.0022 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.0093 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00379 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.002217 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.031335 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.09731 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	53.780 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00025 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.010934 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.16381 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	47.989 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.01164 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000466 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0018 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	3.993 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00318 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	30.599 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.002054 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.01099 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	134	mg/L	10/15/2020	COW_ASB
Total Hardness, calculated in water	332	mg/L	10/15/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	3.61 ± 4.4%	NTU	9/28/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	38.300	mg/L	10/7/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	71.10	mg/L	10/7/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/7/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/7/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/7/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/7/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/7/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.600	%	10/7/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/7/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/7/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/7/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/7/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/7/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/7/2020	ALS
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Surrogate: 1,4-Difluorobenzene	90.0	%	10/7/2020	ALS
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Acetone	<0.050	mg/L	10/7/2020	ALS
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Benzene	<0.00050	mg/L	10/7/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/7/2020	ALS
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Bromoform	<0.0010	mg/L	10/7/2020	ALS
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Bromomethane	<0.001	mg/L	10/7/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/7/2020	ALS
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Chloroethane	<0.001	mg/L	10/7/2020	ALS
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Chloroform	<0.00050	mg/L	10/7/2020	ALS
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Chloromethane	<0.005	mg/L	10/7/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/7/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/7/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/7/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/7/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/7/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/7/2020	ALS
Styrene	<0.0010	mg/L	10/7/2020	ALS
Toluene	<0.00050	mg/L	10/7/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/7/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/7/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/7/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/7/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/7/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/7/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/7/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/7/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337218
Sample Description : GWQ36-101
Sample Date : October 1, 2020
Sample Received : October 1, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	276 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, total to pH 4.5	276 ± 2.8%	mg/L		10/2/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/2/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.107 ± 16.9%	mg/L		10/6/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/6/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/6/2020	COW_ASB
Total Kjeldahl Nitrogen Calculated					
Total Kjeldahl Nitrogen, calculated	<0.2	mg/L		10/15/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	54.0 ± 6%	mg/L		10/3/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	87.2 ± 10%	mg/L		10/7/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/22/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	755 ± 7.2%	uS		10/9/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.75 ± 0.07 units	units		10/1/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	439 ± 6.5%	mg/L		10/7/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	502 ± 6.2%	mg/L		10/7/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	63.0	mg/L		10/7/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	<0.6 ± 13%	mg/L		10/14/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.6 ± 13%	mg/L		10/14/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	0.0025 ± 9.8%	mg/L		10/6/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/6/2020	COW_ASB
Arsenic (As), soluble in water	0.0030 ± 8.1%	mg/L		10/6/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Boron (B), soluble in water	0.0902 ± 24.2%	mg/L	10/6/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L	10/6/2020	COW_ASB
Calcium (Ca), soluble in water	580.2 ± 20.9%	mg/L	10/6/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	10/6/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	10/6/2020	COW_ASB
Iron (Fe), soluble in water	0.2026 ± 9.7%	mg/L	10/6/2020	COW_ASB
Lead (Pb), soluble in water	0.00026 ± 8.3%	mg/L	10/6/2020	COW_ASB
Magnesium (Mg), soluble in water	48.07 ± 10.5%	mg/L	10/6/2020	COW_ASB
Manganese (Mn), soluble in water	0.01540 ± 11.2%	mg/L	10/6/2020	COW_ASB
Nickel (Ni), soluble in water	0.00049 ± 12.2%	mg/L	10/6/2020	COW_ASB
Potassium (K), soluble in water	4.390 ± 18.3%	mg/L	10/6/2020	COW_ASB
Sodium (Na), soluble in water	34.72 ± 9.2%	mg/L	10/6/2020	COW_ASB
Uranium (U), soluble in water	0.0023 ± 10.0%	mg/L	10/6/2020	COW_ASB
Zinc (Zn), soluble in water	0.4007 ± 10.7	mg/L	10/6/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00945 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.001390 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	0.002775 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.030505 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	0.10399 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	52.994 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00028 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.000621 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.29757 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	0.000932 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	49.177 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.01543 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000669 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	0.0052 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	3.916 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00322 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	35.249 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	0.002398 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.86980 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	132	mg/L	10/14/2020	COW_ASB
Total Hardness, calculated in water	335	mg/L	10/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	8.18 ± 4.4%	NTU	10/2/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	45.500	mg/L	10/9/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	82.90	mg/L	10/9/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/9/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/9/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/9/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/9/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/9/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	97.300	%	10/9/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/9/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/9/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/9/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/9/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/9/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/9/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/9/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/9/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/9/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/9/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/9/2020	ALS
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Surrogate: 1,4-Difluorobenzene	98.0	%	10/9/2020	ALS
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Acetone	<0.050	mg/L	10/9/2020	ALS
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Benzene	<0.00050	mg/L	10/9/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/9/2020	ALS
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Bromoform	<0.0010	mg/L	10/9/2020	ALS
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Bromomethane	<0.001	mg/L	10/9/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/9/2020	ALS
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Chloroethane	<0.001	mg/L	10/9/2020	ALS
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Chloroform	<0.00050	mg/L	10/9/2020	ALS
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Chloromethane	<0.005	mg/L	10/9/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/9/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/9/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/9/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/9/2020	ALS
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VOC plus F1 by GCMS

Ethylbenzene	<0.00050	mg/L	10/9/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	10/9/2020	ALS
o-Xylene	<0.0005	mg/L	10/9/2020	ALS
Styrene	<0.0010	mg/L	10/9/2020	ALS
Toluene	<0.00050	mg/L	10/9/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/9/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/9/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/9/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/9/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/9/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	10/9/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/9/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/9/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/9/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Sample No. : 337219
Sample Description : GWQ36-Field Blank
Sample Date : October 5, 2020
Sample Received : October 5, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, total to pH 4.5	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.042 ± 16.9%	mg/L		10/20/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/20/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2.3 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	5.70 ± 0.07 units	units		10/6/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	<3 ± 6.5%	mg/L		10/7/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	14 ± 6.2%	mg/L		10/7/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	19.0	mg/L		10/7/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	<0.6 ± 13%	mg/L		10/7/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	<0.1 ± 13%	mg/L		10/7/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		10/15/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/15/2020	COW_ASB
Arsenic (As), soluble in water	<0.0002 ± 8.1%	mg/L		10/15/2020	COW_ASB
Boron (B), soluble in water	<0.0003 ± 24.2%	mg/L		10/15/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/15/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	<0.039 ± 20.9%	mg/L	10/15/2020	COW_ASB
Chromium (Cr), soluble in water	0.00007 ± 12.8%	mg/L	10/15/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	10/15/2020	COW_ASB
Iron (Fe), soluble in water	<0.0016 ± 9.7%	mg/L	10/15/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/15/2020	COW_ASB
Magnesium (Mg), soluble in water	0.0255 ± 10.5%	mg/L	10/15/2020	COW_ASB
Manganese (Mn), soluble in water	<0.00001 ± 11.2%	mg/L	10/15/2020	COW_ASB
Nickel (Ni), soluble in water	<0.00008 ± 12.2%	mg/L	10/15/2020	COW_ASB
Potassium (K), soluble in water	0.016 ± 18.3%	mg/L	10/15/2020	COW_ASB
Sodium (Na), soluble in water	0.253 ± 9.2%	mg/L	10/15/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	10/15/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	10/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00461 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	0.000880 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.000175 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	0.053 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00039 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.000953 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.01052 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	0.026 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	0.00008 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000174 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	<0.0012 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	0.008 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00335 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	0.222 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.00747 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	<0.4	mg/L	10/14/2020	COW_ASB
Total Hardness, calculated in water	<0.4	mg/L	10/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.73 ± 4.4%	NTU	10/6/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	<0.500	mg/L	10/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<0.30	mg/L	10/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	115.000	%	10/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	96.8	%	10/20/2020	ALS
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Acetone	<0.050	mg/L	10/20/2020	ALS
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Benzene	<0.00050	mg/L	10/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/20/2020	ALS
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Bromoform	<0.0010	mg/L	10/20/2020	ALS
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Bromomethane	<0.001	mg/L	10/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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Chloroethane	<0.001	mg/L	10/20/2020	ALS
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Chloroform	0.00074	mg/L	10/20/2020	ALS
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Chloromethane	<0.005	mg/L	10/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/20/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/20/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/20/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/20/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/20/2020	ALS
Styrene	<0.0010	mg/L	10/20/2020	ALS
Toluene	<0.00050	mg/L	10/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/20/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	10/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/20/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Sample No. : 337220
Sample Description : GWQ36-Trip Blank
Sample Date : October 6, 2020
Sample Received : October 6, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, total to pH 4.5	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/7/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	<0.003 ± 16.9%	mg/L		10/20/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/20/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/20/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		10/11/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		10/10/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2.0 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	5.87 ± 0.07 units	units		10/7/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	7 ± 6.5%	mg/L		10/10/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	<3 ± 6.2%	mg/L		10/9/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	<3.0	mg/L		10/14/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	<0.6 ± 13%	mg/L		10/9/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	<0.1 ± 13%	mg/L		10/9/2020	COW_ASB
Metals Soluble in Water by ICP-MS					
Aluminum (Al), soluble in water	<0.0018 ± 9.8%	mg/L		10/15/2020	COW_ASB
Antimony (Sb), soluble in water	<0.0004 ± 9.2%	mg/L		10/15/2020	COW_ASB
Arsenic (As), soluble in water	<0.0002 ± 8.1%	mg/L		10/15/2020	COW_ASB
Boron (B), soluble in water	<0.0003 ± 24.2%	mg/L		10/15/2020	COW_ASB
Cadmium (Cd), soluble in water	<0.000007 ± 10.4%	mg/L		10/15/2020	COW_ASB

Metals Soluble in Water by ICP-MS

Calcium (Ca), soluble in water	<0.039 ± 20.9%	mg/L	10/15/2020	COW_ASB
Chromium (Cr), soluble in water	<0.00003 ± 12.8%	mg/L	10/15/2020	COW_ASB
Copper (Cu), Soluble in water	<0.00016 ± 12.1%	mg/L	10/15/2020	COW_ASB
Iron (Fe), soluble in water	<0.0016 ± 9.7%	mg/L	10/15/2020	COW_ASB
Lead (Pb), soluble in water	<0.00004 ± 8.3%	mg/L	10/15/2020	COW_ASB
Magnesium (Mg), soluble in water	0.0081 ± 10.5%	mg/L	10/15/2020	COW_ASB
Manganese (Mn), soluble in water	<0.00001 ± 11.2%	mg/L	10/15/2020	COW_ASB
Nickel (Ni), soluble in water	<0.00008 ± 12.2%	mg/L	10/15/2020	COW_ASB
Potassium (K), soluble in water	0.023 ± 18.3%	mg/L	10/15/2020	COW_ASB
Sodium (Na), soluble in water	0.132 ± 9.2%	mg/L	10/15/2020	COW_ASB
Uranium (U), soluble in water	<0.0005 ± 10.0%	mg/L	10/15/2020	COW_ASB
Zinc (Zn), soluble in water	<0.0009 ± 10.7	mg/L	10/15/2020	COW_ASB

Metals Total in Water by ICP-MS

Aluminum (Al), total in water	0.00355 ± 9.8%	mg/L	10/11/2020	COW_ASB
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L	10/11/2020	COW_ASB
Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L	10/11/2020	COW_ASB
Barium (Ba), total in water	0.000152 ± 11.8%	mg/L	10/11/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L	10/11/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L	10/11/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/11/2020	COW_ASB
Calcium (Ca), total in water	0.041 ± 20.9%	mg/L	10/11/2020	COW_ASB
Chromium (Cr), total in water	0.00024 ± 12.8%	mg/L	10/11/2020	COW_ASB
Copper (Cu), total in water	0.002031 ± 12.1%	mg/L	10/11/2020	COW_ASB
Iron (Fe), total in water	0.00516 ± 9.7%	mg/L	10/11/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/11/2020	COW_ASB
Magnesium (Mg), total in water	0.008 ± 10.5%	mg/L	10/11/2020	COW_ASB
Manganese (Mn), total in water	<0.00002 ± 11.2%	mg/L	10/11/2020	COW_ASB
Nickel (Ni), total in water	0.000026 ± 12.2%	mg/L	10/11/2020	COW_ASB
Phosphorus (P), total in water	<0.0012 ± 4.5%	mg/L	10/11/2020	COW_ASB
Potassium (K), total in water	<0.003 ± 18.3%	mg/L	10/11/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/11/2020	COW_ASB
Silver (Ag), total in water	-0.00337 ± 7.5%	mg/L	10/11/2020	COW_ASB
Sodium (Na), total in water	0.090 ± 9.2%	mg/L	10/11/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/11/2020	COW_ASB
Zinc (Zn), total in water	0.00466 ± 10.7%	mg/L	10/11/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	<0.4	mg/L	10/14/2020	COW_ASB
Total Hardness, calculated in water	<0.4	mg/L	10/14/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.49 ± 4.4%	NTU	10/7/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	<0.500	mg/L	10/20/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<0.30	mg/L	10/20/2020	ALS
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Mercury in Water

Dissolved Mercury Filtration Location	FIELD		10/20/2020	ALS
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Mercury (Hg) dissolved in water	<0.0000050	mg/L	10/20/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/20/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	10/20/2020	ALS
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Total Hydrocarbons (C6-C50)	<0.38	mg/L	10/20/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	93.400	%	10/20/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/20/2020	ALS
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Fraction 3 (C16-C34)	<0.250	mg/L	10/20/2020	ALS
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Fraction 4 (C34-C50)	<0.250	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	10/20/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	10/20/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	10/20/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	10/20/2020	ALS
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Surrogate: 1,4-Difluorobenzene	97.8	%	10/20/2020	ALS
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Acetone	<0.050	mg/L	10/20/2020	ALS
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Benzene	<0.00050	mg/L	10/20/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	10/20/2020	ALS
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Bromoform	<0.0010	mg/L	10/20/2020	ALS
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Bromomethane	<0.001	mg/L	10/20/2020	ALS
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Chlorobenzene	<0.0010	mg/L	10/20/2020	ALS
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Chloroethane	<0.001	mg/L	10/20/2020	ALS
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Chloroform	0.00149	mg/L	10/20/2020	ALS
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Chloromethane	<0.005	mg/L	10/20/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	10/20/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	10/20/2020	ALS
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Dichloromethane	<0.00500	mg/L	10/20/2020	ALS
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Ethylbenzene	<0.00050	mg/L	10/20/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	10/20/2020	ALS
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VOC plus F1 by GCMS

o-Xylene	<0.0005	mg/L	10/20/2020	ALS
Styrene	<0.0010	mg/L	10/20/2020	ALS
Toluene	<0.00050	mg/L	10/20/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/20/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/20/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/20/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/20/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0015	mg/L	10/20/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/20/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/20/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/20/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/15/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/15/2020	COW_ASB
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Reference Information

The Analytical Services Branch is accredited by CALA in accordance with ISO 17025 standards for specific tests.

Accredited Test Methods Used :

Test Method

- Alkalinity by Titration
- Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis
- COD by Closed Reflux Method
- Conductivity by Electrometric Method
- Dissolved Organic Carbon by High Temperature Combustion
- Dissolved Solids by Gravimetric Analysis
- Hardness, Calcium & Total by Calculation
- Metals Soluble in Water by ICP-MS
- Metals Total in Water by ICP-MS
- pH in Laboratory by Electrometric Method
- Total Kjeldahl Nitrogen Calculated
- Total Nitrogen by High Temperature Combustion
- Total Organic Carbon by High Temperature Combustion
- Total Solids by Gravimetric Analysis
- Total Suspended Solids by Gravimetric Analysis
- Turbidity in Laboratory by Nephelometric Method

Reference Method

- Modified from SM 2320 B. Titration Method
- Modified from SM 4500-NH3 H. NO3 I & P G. Flow Injection Analysis
- Modified from SM 5220 D. Closed Reflux, Colorimetric Method
- Modified from SM 2510 B. Laboratory Measurement
- Modified from SM 5310 B. High Temperature Combustion
- Modified from SM 2540 C. Total Dissolved Solids Dried at 180°C
- Calculated from EPA Methods 200.8
- Modified from EPA Methods 200.8
- Modified from EPA Methods 200.8
- Modified from SM 4500 H+B (Electrometric Method)
- Calculated from SM 5310 B. High Temperature Combustion and SM 4500-NO3 I. Flow Injection Analysis
- Modified from SM 5310 B. High Temperature Combustion
- Modified from SM 5310 B. High Temperature Combustion
- Modified from SM 2540 B. Total Solids Dried at 103-105°C
- Modified from SM 2540 D. Total Suspended Solids Dried at 103-105°C
- Modified from SM 2130 A. Turbidity & 2130 B. Nephelometric Method

Additional Test Methods Used :

Test Method

Chloride by Mercuric Thiocyanate Method
Sulfate by HACH Method

Reference Method

Modified from SM 4500Cl-G Mercuric Thiocyanate & HACH Method 8113
Modified from HACH Method 8051, SulfaVer 4, & SM 4500-SO4-2 E. Turbidimetric

Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4
COW_ASB : City of Winnipeg Main Laboratory at NEWPCC, 2230 Main Street, Winnipeg, MB R2V 4T8

Additional Comments :

- 1) A quality control report can be provided upon request. These reports may contain quality control results from other samples not included in this test report.
- 2) Analytical Services Branch test methods may incorporate modifications from specified reference methods to improve performance.
- 3) For subcontracted testing, the certificate of analysis can be provided upon request.
- 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

----- **END OF REPORT** -----



Report To :

Mr. Chris Kozak
Solid Waste Services Division
1120 Waverley Street
Winnipeg MB R3E 3S8

Report Date : December 10, 2020

Phone : 204-986-2384
Email : ckozak@winnipeg.ca

Certificate of Analysis Job No. 589

Date Authorised : December 10, 2020

Total Number of Pages : 117

This report is issued under the authority of :

Brock Bradford

Analytical Services Branch Head

This report shall not be reproduced except in full without the written approval of the laboratory.

The results relate only to the sample(s) as received by the laboratory.

Additional information regarding the test methods used by Analytical Services Branch or contract laboratory is available upon request.

Sample No. : 337281
Sample Description : GWQ25-W4
Sample Date : October 20, 2020
Sample Received : October 20, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	56.9 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, total to pH 4.5	56.9 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.825 ± 16.9%	mg/L		10/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/26/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1900 ± 6%	mg/L		10/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	670 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	100 ± 6.1%	mg/L		11/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	7110 ± 7.2%	uS		10/23/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.79 ± 0.07 units	units		10/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	4290 ± 6.2%	mg/L		10/22/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4120 ± 6.5%	mg/L		10/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	167.0	mg/L		10/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.4 ± 13%	mg/L		10/23/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.7 ± 13%	mg/L		10/23/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.000148 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.010989 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	0.70265 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	210.44 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00089 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.000909 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	2.6016 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	105.85 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.03858 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.000227 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0064 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	33.361 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00088 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1358.3 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.00295 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	526	mg/L	11/3/2020	COW_ASB
Total Hardness, calculated in water	961	mg/L	11/3/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	13.30 ± 4.4%	NTU	10/20/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	11/3/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	11/3/2020	ALS
Arsenic (As), dissolved in water	0.00015	mg/L	11/3/2020	ALS
Barium (Ba), dissolved in water	0.0097	mg/L	11/3/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	11/3/2020	ALS
Boron (B), dissolved in water	0.6270	mg/L	11/3/2020	ALS
Cadmium (Cd), dissolved in water	0.000005	mg/L	11/3/2020	ALS
Calcium (Ca), dissolved in water	166.0000	mg/L	11/3/2020	ALS
Cesium (Cs), dissolved in water	0.000013	mg/L	11/3/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Cobalt (Co), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	11/3/2020	ALS
Hardness dissolved in water, calculated	814.8	mg/L	11/3/2020	ALS
Iron (Fe), dissolved in water	1.7900	mg/L	11/3/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	11/3/2020	ALS
Lithium (Li), dissolved in water	0.2160	mg/L	11/3/2020	ALS
Magnesium (Mg), dissolved in water	97.2000	mg/L	11/3/2020	ALS
Manganese (Mn), dissolved in water	0.0325	mg/L	11/3/2020	ALS
Molybdenum (Mo), dissolved in water	0.005060	mg/L	11/3/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	<0.00050	mg/L	11/3/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	11/3/2020	ALS
Potassium (K), dissolved in water	29.3000	mg/L	11/3/2020	ALS
Rubidium (Rb), dissolved in water	0.0129	mg/L	11/3/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	11/3/2020	ALS
Silicon (Si), dissolved in water	1.6000	mg/L	11/3/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	11/3/2020	ALS
Sodium (Na), dissolved in water	1220.0000	mg/L	11/3/2020	ALS
Strontium (Sr), dissolved in water	2.6500	mg/L	11/3/2020	ALS
Sulfur (S), dissolved in water	201.0000	mg/L	11/3/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	11/3/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	11/3/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	11/3/2020	ALS
Tungsten (W), dissolved in water	0.00161	mg/L	11/3/2020	ALS
Uranium (U), dissolved in water	<0.000010	mg/L	11/3/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	11/3/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	11/3/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	11/3/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	11/3/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	11/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	11/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	11/3/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	11/3/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	0.7 ± 15%	mg/L	10/23/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	0.68	mg/L	10/27/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	64.40	mg/L	11/3/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	52.80	mg/L	11/3/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	11/3/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	11/3/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.86	mg/L	11/3/2020	ALS
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Carbons

Dissolved Inorganic Carbon	10.9	mg/L	11/3/2020	ALS
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Dissolved Organic Carbon	1.2	mg/L	11/3/2020	ALS
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Total Dissolved Carbon by Calculation	12.1	mg/L	11/3/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2120.000	mg/L	11/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	563.00	mg/L	11/3/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	11/3/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	11/3/2020	ALS
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Acenaphthene	<0.000020	mg/L	11/3/2020	ALS
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Acenaphthylene	<0.000020	mg/L	11/3/2020	ALS
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Acridine	<0.000020	mg/L	11/3/2020	ALS
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Anthracene	<0.000010	mg/L	11/3/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	11/3/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	11/3/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	11/3/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	11/3/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	11/3/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	11/3/2020	ALS
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Chrysene	<0.000020	mg/L	11/3/2020	ALS
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Surrogate: d10-Acenaphthene	85.5	%	11/3/2020	ALS
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Surrogate: d10-Phenanthrene	94.2	%	11/3/2020	ALS
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Surrogate: d12-Chrysene	83.5	%	11/3/2020	ALS
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Surrogate: d8-Naphthalene	87.0	%	11/3/2020	ALS
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Surrogate: d9-Acridine (SS)	88.1	%	11/3/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	11/3/2020	ALS
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Fluoranthene	<0.000020	mg/L	11/3/2020	ALS
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Fluorene	<0.000020	mg/L	11/3/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	11/3/2020	ALS
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Naphthalene	<0.000050	mg/L	11/3/2020	ALS
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Phenanthrene	<0.000050	mg/L	11/3/2020	ALS
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Pyrene	<0.000010	mg/L	11/3/2020	ALS
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Quinoline	<0.000020	mg/L	11/3/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	93.500	%	11/3/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	11/3/2020	ALS
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CCME PHC F2-F4 in water

Fraction 3 (C16-C34)	<0.250	mg/L	11/3/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	11/3/2020	ALS

Cyanide

Cyanide, Total in water	<0.0010	mg/L	11/3/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	82.200	%	11/3/2020	ALS
Surrogate: d14-Terphenyl in water	91.600	%	11/3/2020	ALS
Diazinon in water	<0.1000	ug/L	11/3/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	11/3/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	11/3/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	11/3/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	11/3/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	11/3/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	11/3/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	95.7	%	11/3/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	11/3/2020	ALS
Bromoxynil in water	<0.0001	ug/L	11/3/2020	ALS
Clopyralid in water	<0.0001	ug/L	11/3/2020	ALS
Dicamba in water	<0.0001	ug/L	11/3/2020	ALS
Dinoseb in water	<0.0001	ug/L	11/3/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	11/3/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	11/3/2020	ALS
Mecoprop in water	<0.0001	ug/L	11/3/2020	ALS
Picloram in water	<0.0001	ug/L	11/3/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/4/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/4/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/4/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/4/2020	ALS
Surrogate: 1,4-Difluorobenzene	98.0	%	11/4/2020	ALS
Acetone	<0.050	mg/L	11/4/2020	ALS
Benzene	<0.00050	mg/L	11/4/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/4/2020	ALS

VOC plus F1 by GCMS

Bromoform	<0.0010	mg/L	11/4/2020	ALS
Bromomethane	<0.001	mg/L	11/4/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/4/2020	ALS
Chloroethane	<0.001	mg/L	11/4/2020	ALS
Chloroform	<0.00050	mg/L	11/4/2020	ALS
Chloromethane	<0.005	mg/L	11/4/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/4/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/4/2020	ALS
Dichloromethane	<0.02000	mg/L	11/4/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/4/2020	ALS
F1	<0.1000	mg/L	11/4/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/4/2020	ALS
o-Xylene	<0.0005	mg/L	11/4/2020	ALS
Styrene	<0.0010	mg/L	11/4/2020	ALS
Toluene	<0.00050	mg/L	11/4/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/4/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/4/2020	ALS

Sample No. : 337282
Sample Description : GWQ25-W6
Sample Date : October 15, 2020
Sample Received : October 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	143 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	143 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.42 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.019 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2610 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1010 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	265 ± 6.1%	mg/L		10/28/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	9710 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.45 ± 0.07 units	units		10/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	6480 ± 6.2%	mg/L		10/16/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	6240 ± 6.5%	mg/L		10/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	233.0	mg/L		10/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.6 ± 13%	mg/L		10/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.2 ± 13%	mg/L		10/22/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.005630 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.013602 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	1.2488 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	343.80 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00087 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.003014 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	1.4886 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	0.000307 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	175.00 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.03551 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.001645 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0128 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	50.900 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00236 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1877.4 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.01867 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	859	mg/L	11/4/2020	COW_ASB
Total Hardness, calculated in water	1580	mg/L	11/4/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	10.70 ± 4.4%	NTU	10/15/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/28/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/28/2020	ALS
Arsenic (As), dissolved in water	0.00551	mg/L	10/28/2020	ALS
Barium (Ba), dissolved in water	0.0116	mg/L	10/28/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/28/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/28/2020	ALS
Boron (B), dissolved in water	1.0300	mg/L	10/28/2020	ALS
Cadmium (Cd), dissolved in water	0.000010	mg/L	10/28/2020	ALS
Calcium (Ca), dissolved in water	323.0000	mg/L	10/28/2020	ALS
Cesium (Cs), dissolved in water	0.000075	mg/L	10/28/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/28/2020	ALS
Cobalt (Co), dissolved in water	0.00053	mg/L	10/28/2020	ALS
Copper (Cu), dissolved in water	0.00024	mg/L	10/28/2020	ALS
Hardness dissolved in water, calculated	1494.2	mg/L	10/28/2020	ALS
Iron (Fe), dissolved in water	1.4000	mg/L	10/28/2020	ALS
Lead (Pb), dissolved in water	0.000159	mg/L	10/28/2020	ALS
Lithium (Li), dissolved in water	0.3940	mg/L	10/28/2020	ALS
Magnesium (Mg), dissolved in water	167.0000	mg/L	10/28/2020	ALS
Manganese (Mn), dissolved in water	0.0318	mg/L	10/28/2020	ALS
Molybdenum (Mo), dissolved in water	0.003970	mg/L	10/28/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00149	mg/L	10/28/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/28/2020	ALS
Potassium (K), dissolved in water	46.3000	mg/L	10/28/2020	ALS
Rubidium (Rb), dissolved in water	0.0219	mg/L	10/28/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	10/28/2020	ALS
Silicon (Si), dissolved in water	4.8700	mg/L	10/28/2020	ALS
Silver (Ag), dissolved in water	0.000034	mg/L	10/28/2020	ALS
Sodium (Na), dissolved in water	1730.0000	mg/L	10/28/2020	ALS
Strontium (Sr), dissolved in water	4.9800	mg/L	10/28/2020	ALS
Sulfur (S), dissolved in water	341.0000	mg/L	10/28/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/28/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/28/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/28/2020	ALS
Tin (Sn), dissolved in water	0.00021	mg/L	10/28/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/28/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/28/2020	ALS
Uranium (U), dissolved in water	0.000418	mg/L	10/28/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/28/2020	ALS
Zinc (Zn), dissolved in water	0.0053	mg/L	10/28/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/28/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/28/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/28/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/28/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/28/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/28/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/28/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.6 ± 15%	mg/L	10/21/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.54	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	174.00	mg/L	10/28/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	143.00	mg/L	10/28/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/28/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/28/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.56	mg/L	10/28/2020	ALS
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Carbons

Dissolved Inorganic Carbon	23.4	mg/L	10/28/2020	ALS
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Dissolved Organic Carbon	2.7	mg/L	10/28/2020	ALS
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Total Dissolved Carbon by Calculation	26.1	mg/L	10/28/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	3090.000	mg/L	10/28/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	1030.00	mg/L	10/28/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	10/28/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	10/28/2020	ALS
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Acenaphthene	<0.000020	mg/L	10/28/2020	ALS
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Acenaphthylene	<0.000020	mg/L	10/28/2020	ALS
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Acridine	<0.000020	mg/L	10/28/2020	ALS
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Anthracene	<0.000010	mg/L	10/28/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	10/28/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	10/28/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	10/28/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	10/28/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	10/28/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	10/28/2020	ALS
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Chrysene	<0.000020	mg/L	10/28/2020	ALS
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Surrogate: d10-Acenaphthene	92.1	%	10/28/2020	ALS
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Surrogate: d10-Phenanthrene	91.0	%	10/28/2020	ALS
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Surrogate: d12-Chrysene	85.3	%	10/28/2020	ALS
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Surrogate: d8-Naphthalene	82.7	%	10/28/2020	ALS
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Surrogate: d9-Acridine (SS)	95.0	%	10/28/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	10/28/2020	ALS
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Fluoranthene	<0.000020	mg/L	10/28/2020	ALS
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Fluorene	<0.000020	mg/L	10/28/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	10/28/2020	ALS
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Naphthalene	<0.000050	mg/L	10/28/2020	ALS
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Phenanthrene	<0.000050	mg/L	10/28/2020	ALS
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Pyrene	0.000021	mg/L	10/28/2020	ALS
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Quinoline	<0.000020	mg/L	10/28/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	93.900	%	10/28/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/28/2020	ALS
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CCME PHC F2-F4 in water

Fraction 3 (C16-C34)	<0.250	mg/L	10/28/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	10/28/2020	ALS

Cyanide

Cyanide, Total in water	<0.0010	mg/L	10/28/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	85.500	%	10/28/2020	ALS
Surrogate: d14-Terphenyl in water	102.800	%	10/28/2020	ALS
Diazinon in water	<0.1000	ug/L	10/28/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/28/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/28/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	10/28/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	10/28/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	10/28/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	10/28/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	124.0	%	10/28/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	10/28/2020	ALS
Bromoxynil in water	<0.0001	ug/L	10/28/2020	ALS
Clopyralid in water	<0.0001	ug/L	10/28/2020	ALS
Dicamba in water	<0.0001	ug/L	10/28/2020	ALS
Dinoseb in water	<0.0001	ug/L	10/28/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	10/28/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	10/28/2020	ALS
Mecoprop in water	<0.0001	ug/L	10/28/2020	ALS
Picloram in water	<0.0001	ug/L	10/28/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/4/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/4/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/4/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/4/2020	ALS
Surrogate: 1,4-Difluorobenzene	98.1	%	11/4/2020	ALS
Acetone	<0.050	mg/L	11/4/2020	ALS
Benzene	<0.00050	mg/L	11/4/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/4/2020	ALS

VOC plus F1 by GCMS

Bromoform	<0.0010	mg/L	11/4/2020	ALS
Bromomethane	<0.001	mg/L	11/4/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/4/2020	ALS
Chloroethane	<0.001	mg/L	11/4/2020	ALS
Chloroform	<0.00050	mg/L	11/4/2020	ALS
Chloromethane	<0.005	mg/L	11/4/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/4/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/4/2020	ALS
Dichloromethane	<0.00500	mg/L	11/4/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/4/2020	ALS
F1	<0.1000	mg/L	11/4/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/4/2020	ALS
o-Xylene	<0.0005	mg/L	11/4/2020	ALS
Styrene	<0.0010	mg/L	11/4/2020	ALS
Toluene	<0.00050	mg/L	11/4/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/4/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/4/2020	ALS

Sample No. : 337283
Sample Description : GWQ25-W8
Sample Date : October 14, 2020
Sample Received : October 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	138 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	138 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.11 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.009 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	3390 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	858 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	136 ± 6.1%	mg/L		10/28/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8160 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.59 ± 0.07 units	units		10/14/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5450 ± 6.2%	mg/L		10/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5160 ± 6.5%	mg/L		10/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	287.0	mg/L		10/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.9 ± 13%	mg/L		10/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.5 ± 13%	mg/L		10/16/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.006559 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.013179 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	1.0735 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	309.67 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00072 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.001210 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	0.87425 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	173.50 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.03553 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.002132 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0036 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	42.522 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00126 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1480.9 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	0.000333 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.00462 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	773	mg/L	11/3/2020	COW_ASB
Total Hardness, calculated in water	1490	mg/L	11/3/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	1.70 ± 4.4%	NTU	10/14/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/24/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/24/2020	ALS
Arsenic (As), dissolved in water	0.01430	mg/L	10/24/2020	ALS
Barium (Ba), dissolved in water	0.0134	mg/L	10/24/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/24/2020	ALS
Boron (B), dissolved in water	0.7260	mg/L	10/24/2020	ALS
Cadmium (Cd), dissolved in water	0.000007	mg/L	10/24/2020	ALS
Calcium (Ca), dissolved in water	295.0000	mg/L	10/24/2020	ALS
Cesium (Cs), dissolved in water	0.000051	mg/L	10/24/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Cobalt (Co), dissolved in water	0.00070	mg/L	10/24/2020	ALS
Copper (Cu), dissolved in water	0.00035	mg/L	10/24/2020	ALS
Hardness dissolved in water, calculated	1457.3	mg/L	10/24/2020	ALS
Iron (Fe), dissolved in water	0.8280	mg/L	10/24/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/24/2020	ALS
Lithium (Li), dissolved in water	0.2870	mg/L	10/24/2020	ALS
Magnesium (Mg), dissolved in water	175.0000	mg/L	10/24/2020	ALS
Manganese (Mn), dissolved in water	0.0325	mg/L	10/24/2020	ALS
Molybdenum (Mo), dissolved in water	0.002960	mg/L	10/24/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00146	mg/L	10/24/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/24/2020	ALS
Potassium (K), dissolved in water	40.4000	mg/L	10/24/2020	ALS
Rubidium (Rb), dissolved in water	0.0169	mg/L	10/24/2020	ALS
Selenium (Se), dissolved in water	0.000053	mg/L	10/24/2020	ALS
Silicon (Si), dissolved in water	5.4000	mg/L	10/24/2020	ALS
Silver (Ag), dissolved in water	0.000030	mg/L	10/24/2020	ALS
Sodium (Na), dissolved in water	1350.0000	mg/L	10/24/2020	ALS
Strontium (Sr), dissolved in water	4.3300	mg/L	10/24/2020	ALS
Sulfur (S), dissolved in water	270.0000	mg/L	10/24/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/24/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/24/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/24/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Uranium (U), dissolved in water	0.000809	mg/L	10/24/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/24/2020	ALS
Zinc (Zn), dissolved in water	0.0020	mg/L	10/24/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/24/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/24/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	10/24/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/24/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/24/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/24/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.1 ± 15%	mg/L	10/16/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.04	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	172.00	mg/L	10/24/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	141.00	mg/L	10/24/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/24/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.20	mg/L	10/24/2020	ALS
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Carbons

Dissolved Inorganic Carbon	19.1	mg/L	10/24/2020	ALS
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Dissolved Organic Carbon	1.4	mg/L	10/24/2020	ALS
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Total Dissolved Carbon by Calculation	20.5	mg/L	10/24/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2470.000	mg/L	10/24/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	862.00	mg/L	10/24/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	0.000032	mg/L	10/24/2020	ALS
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2-Methyl Naphthalene	0.000048	mg/L	10/24/2020	ALS
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Acenaphthene	<0.000020	mg/L	10/24/2020	ALS
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Acenaphthylene	<0.000020	mg/L	10/24/2020	ALS
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Acridine	<0.000020	mg/L	10/24/2020	ALS
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Anthracene	<0.000010	mg/L	10/24/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	10/24/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	10/24/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	10/24/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	10/24/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	10/24/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	10/24/2020	ALS
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Chrysene	<0.000020	mg/L	10/24/2020	ALS
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Surrogate: d10-Acenaphthene	89.5	%	10/24/2020	ALS
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Surrogate: d10-Phenanthrene	87.9	%	10/24/2020	ALS
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Surrogate: d12-Chrysene	92.4	%	10/24/2020	ALS
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Surrogate: d8-Naphthalene	88.8	%	10/24/2020	ALS
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Surrogate: d9-Acridine (SS)	94.7	%	10/24/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	10/24/2020	ALS
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Fluoranthene	<0.000020	mg/L	10/24/2020	ALS
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Fluorene	<0.000020	mg/L	10/24/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	10/24/2020	ALS
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Naphthalene	0.000089	mg/L	10/24/2020	ALS
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Phenanthrene	<0.000050	mg/L	10/24/2020	ALS
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Pyrene	0.000027	mg/L	10/24/2020	ALS
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Quinoline	0.000048	mg/L	10/24/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	90.800	%	10/24/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/24/2020	ALS
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CCME PHC F2-F4 in water

Fraction 3 (C16-C34)	<0.250	mg/L	10/24/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	10/24/2020	ALS

Cyanide

Cyanide, Total in water	<0.0010	mg/L	10/24/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	82.200	%	10/24/2020	ALS
Surrogate: d14-Terphenyl in water	100.600	%	10/24/2020	ALS
Diazinon in water	<0.1000	ug/L	10/24/2020	ALS

Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	10/24/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	10/24/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	10/24/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	10/24/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	123.0	%	10/24/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	10/24/2020	ALS
Bromoxynil in water	<0.0001	ug/L	10/24/2020	ALS
Clopyralid in water	<0.0001	ug/L	10/24/2020	ALS
Dicamba in water	<0.0001	ug/L	10/24/2020	ALS
Dinoseb in water	<0.0001	ug/L	10/24/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	10/24/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	10/24/2020	ALS
Mecoprop in water	<0.0001	ug/L	10/24/2020	ALS
Picloram in water	<0.0001	ug/L	10/24/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0035	mg/L	10/24/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/4/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/4/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/4/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/4/2020	ALS
Surrogate: 1,4-Difluorobenzene	100.7	%	11/4/2020	ALS
Acetone	<0.050	mg/L	11/4/2020	ALS
Benzene	<0.00050	mg/L	11/4/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/4/2020	ALS

VOC plus F1 by GCMS

Bromoform	<0.0010	mg/L	11/4/2020	ALS
Bromomethane	<0.001	mg/L	11/4/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/4/2020	ALS
Chloroethane	<0.001	mg/L	11/4/2020	ALS
Chloroform	0.00353	mg/L	11/4/2020	ALS
Chloromethane	<0.005	mg/L	11/4/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/4/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/4/2020	ALS
Dichloromethane	<0.00500	mg/L	11/4/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/4/2020	ALS
F1	<0.1000	mg/L	11/4/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/4/2020	ALS
o-Xylene	<0.0005	mg/L	11/4/2020	ALS
Styrene	<0.0010	mg/L	11/4/2020	ALS
Toluene	<0.00050	mg/L	11/4/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/4/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/4/2020	ALS

Sample No. : 337284
Sample Description : GWQ25-W9
Sample Date : October 14, 2020
Sample Received : October 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	139 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	139 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.36 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.009 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2680 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1010 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	210 ± 6.1%	mg/L		10/28/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	9230 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.53 ± 0.07 units	units		10/14/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	6200 ± 6.2%	mg/L		10/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5880 ± 6.5%	mg/L		10/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	317.0	mg/L		10/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.7 ± 13%	mg/L		10/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.5 ± 13%	mg/L		10/16/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000068 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.007572 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.012168 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	1.1695 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	332.64 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00159 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.006621 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	1.1144 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	0.000192 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	174.87 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.02502 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.002408 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0057 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	46.039 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00202 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1642.9 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	0.000485 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.00910 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	831	mg/L	11/4/2020	COW_ASB
Total Hardness, calculated in water	1550	mg/L	11/4/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	1.17 ± 4.4%	NTU	10/14/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/24/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/24/2020	ALS
Arsenic (As), dissolved in water	0.01650	mg/L	10/24/2020	ALS
Barium (Ba), dissolved in water	0.0123	mg/L	10/24/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/24/2020	ALS
Boron (B), dissolved in water	0.8610	mg/L	10/24/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	10/24/2020	ALS
Calcium (Ca), dissolved in water	319.0000	mg/L	10/24/2020	ALS
Cesium (Cs), dissolved in water	0.000042	mg/L	10/24/2020	ALS
Chromium (Cr), dissolved in water	0.00171	mg/L	10/24/2020	ALS
Cobalt (Co), dissolved in water	0.00089	mg/L	10/24/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	10/24/2020	ALS
Hardness dissolved in water, calculated	1558.4	mg/L	10/24/2020	ALS
Iron (Fe), dissolved in water	0.9820	mg/L	10/24/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/24/2020	ALS
Lithium (Li), dissolved in water	0.3420	mg/L	10/24/2020	ALS
Magnesium (Mg), dissolved in water	185.0000	mg/L	10/24/2020	ALS
Manganese (Mn), dissolved in water	0.0225	mg/L	10/24/2020	ALS
Molybdenum (Mo), dissolved in water	0.003740	mg/L	10/24/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00154	mg/L	10/24/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/24/2020	ALS
Potassium (K), dissolved in water	46.2000	mg/L	10/24/2020	ALS
Rubidium (Rb), dissolved in water	0.0194	mg/L	10/24/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	10/24/2020	ALS
Silicon (Si), dissolved in water	5.4000	mg/L	10/24/2020	ALS
Silver (Ag), dissolved in water	0.000026	mg/L	10/24/2020	ALS
Sodium (Na), dissolved in water	1600.0000	mg/L	10/24/2020	ALS
Strontium (Sr), dissolved in water	5.0800	mg/L	10/24/2020	ALS
Sulfur (S), dissolved in water	316.0000	mg/L	10/24/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/24/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/24/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/24/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Uranium (U), dissolved in water	0.000936	mg/L	10/24/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/24/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	10/24/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/24/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/24/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/24/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/24/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/24/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/24/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.3 ± 15%	mg/L	10/16/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.33	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	172.00	mg/L	10/24/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	141.00	mg/L	10/24/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/24/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.43	mg/L	10/24/2020	ALS
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Carbons

Dissolved Inorganic Carbon	26.6	mg/L	10/24/2020	ALS
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Dissolved Organic Carbon	2.1	mg/L	10/24/2020	ALS
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Total Dissolved Carbon by Calculation	28.7	mg/L	10/24/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2920.000	mg/L	10/24/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	993.00	mg/L	10/24/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	10/24/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	10/24/2020	ALS
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Acenaphthene	<0.000020	mg/L	10/24/2020	ALS
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Acenaphthylene	<0.000020	mg/L	10/24/2020	ALS
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Acridine	<0.000020	mg/L	10/24/2020	ALS
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Anthracene	<0.000010	mg/L	10/24/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	10/24/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	10/24/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	10/24/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	10/24/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	10/24/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	10/24/2020	ALS
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Chrysene	<0.000020	mg/L	10/24/2020	ALS
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Surrogate: d10-Acenaphthene	88.8	%	10/24/2020	ALS
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Surrogate: d10-Phenanthrene	88.2	%	10/24/2020	ALS
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Surrogate: d12-Chrysene	82.0	%	10/24/2020	ALS
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Surrogate: d8-Naphthalene	82.8	%	10/24/2020	ALS
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Surrogate: d9-Acridine (SS)	90.8	%	10/24/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	10/24/2020	ALS
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Fluoranthene	<0.000020	mg/L	10/24/2020	ALS
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Fluorene	<0.000020	mg/L	10/24/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	10/24/2020	ALS
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Naphthalene	<0.000050	mg/L	10/24/2020	ALS
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Phenanthrene	<0.000050	mg/L	10/24/2020	ALS
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Pyrene	<0.000010	mg/L	10/24/2020	ALS
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Quinoline	<0.000020	mg/L	10/24/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	84.900	%	10/24/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/24/2020	ALS
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CCME PHC F2-F4 in water

Fraction 3 (C16-C34)	<0.250	mg/L	10/24/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	10/24/2020	ALS

Cyanide

Cyanide, Total in water	<0.0010	mg/L	10/24/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	86.600	%	10/24/2020	ALS
Surrogate: d14-Terphenyl in water	109.800	%	10/24/2020	ALS
Diazinon in water	<0.1000	ug/L	10/24/2020	ALS

Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	10/24/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	10/24/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	10/24/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	10/24/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	123.0	%	10/24/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	10/24/2020	ALS
Bromoxynil in water	<0.0001	ug/L	10/24/2020	ALS
Clopyralid in water	<0.0001	ug/L	10/24/2020	ALS
Dicamba in water	<0.0001	ug/L	10/24/2020	ALS
Dinoseb in water	<0.0001	ug/L	10/24/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	10/24/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	10/24/2020	ALS
Mecoprop in water	<0.0001	ug/L	10/24/2020	ALS
Picloram in water	<0.0001	ug/L	10/24/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/24/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/4/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/4/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/4/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/4/2020	ALS
Surrogate: 1,4-Difluorobenzene	101.0	%	11/4/2020	ALS
Acetone	<0.050	mg/L	11/4/2020	ALS
Benzene	<0.00050	mg/L	11/4/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/4/2020	ALS

VOC plus F1 by GCMS

Bromoform	<0.0010	mg/L	11/4/2020	ALS
Bromomethane	<0.001	mg/L	11/4/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/4/2020	ALS
Chloroethane	<0.001	mg/L	11/4/2020	ALS
Chloroform	<0.00050	mg/L	11/4/2020	ALS
Chloromethane	<0.005	mg/L	11/4/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/4/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/4/2020	ALS
Dichloromethane	<0.00500	mg/L	11/4/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/4/2020	ALS
F1	<0.1000	mg/L	11/4/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/4/2020	ALS
o-Xylene	<0.0005	mg/L	11/4/2020	ALS
Styrene	<0.0010	mg/L	11/4/2020	ALS
Toluene	<0.00050	mg/L	11/4/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/4/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/4/2020	ALS

Sample No. : 337285
Sample Description : GWQ25-W11
Sample Date : October 20, 2020
Sample Received : October 20, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	130 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, total to pH 4.5	130 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.13 ± 16.9%	mg/L		10/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/26/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2320 ± 6%	mg/L		10/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	775 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	231 ± 6.1%	mg/L		11/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8410 ± 7.2%	uS		10/23/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.06 ± 0.07 units	units		10/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5230 ± 6.2%	mg/L		10/22/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5060 ± 6.5%	mg/L		10/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	167.0	mg/L		10/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.4 ± 13%	mg/L		10/23/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.2 ± 13%	mg/L		10/23/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.005551 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.018147 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	1.0180 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	304.96 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00082 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.003986 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	0.96000 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	0.001160 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	138.29 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.03957 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.001479 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0161 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	39.162 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00168 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1464.4 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.01091 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	762	mg/L	11/3/2020	COW_ASB
Total Hardness, calculated in water	1330	mg/L	11/3/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	7.97 ± 4.4%	NTU	10/20/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0017	mg/L	11/3/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	11/3/2020	ALS
Arsenic (As), dissolved in water	0.00577	mg/L	11/3/2020	ALS
Barium (Ba), dissolved in water	0.0141	mg/L	11/3/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	11/3/2020	ALS
Boron (B), dissolved in water	0.9430	mg/L	11/3/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	11/3/2020	ALS
Calcium (Ca), dissolved in water	258.0000	mg/L	11/3/2020	ALS
Cesium (Cs), dissolved in water	0.000060	mg/L	11/3/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Cobalt (Co), dissolved in water	0.00029	mg/L	11/3/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	11/3/2020	ALS
Hardness dissolved in water, calculated	1187.8	mg/L	11/3/2020	ALS
Iron (Fe), dissolved in water	0.4740	mg/L	11/3/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	11/3/2020	ALS
Lithium (Li), dissolved in water	0.2950	mg/L	11/3/2020	ALS
Magnesium (Mg), dissolved in water	132.0000	mg/L	11/3/2020	ALS
Manganese (Mn), dissolved in water	0.0298	mg/L	11/3/2020	ALS
Molybdenum (Mo), dissolved in water	0.003510	mg/L	11/3/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00057	mg/L	11/3/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	11/3/2020	ALS
Potassium (K), dissolved in water	37.5000	mg/L	11/3/2020	ALS
Rubidium (Rb), dissolved in water	0.0181	mg/L	11/3/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	11/3/2020	ALS
Silicon (Si), dissolved in water	4.5800	mg/L	11/3/2020	ALS
Silver (Ag), dissolved in water	0.000014	mg/L	11/3/2020	ALS
Sodium (Na), dissolved in water	1420.0000	mg/L	11/3/2020	ALS
Strontium (Sr), dissolved in water	3.7700	mg/L	11/3/2020	ALS
Sulfur (S), dissolved in water	256.0000	mg/L	11/3/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	11/3/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	11/3/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	11/3/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Uranium (U), dissolved in water	0.000445	mg/L	11/3/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	11/3/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	11/3/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	11/3/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	11/3/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	11/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	11/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	11/3/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	11/3/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.1 ± 15%	mg/L	10/23/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.11	mg/L	10/27/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	159.00	mg/L	11/3/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	130.00	mg/L	11/3/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	11/3/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	11/3/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.40	mg/L	11/3/2020	ALS
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Carbons

Dissolved Inorganic Carbon	22.4	mg/L	11/3/2020	ALS
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Dissolved Organic Carbon	2.9	mg/L	11/3/2020	ALS
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Total Dissolved Carbon by Calculation	25.3	mg/L	11/3/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2330.000	mg/L	11/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	708.00	mg/L	11/3/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	0.000021	mg/L	11/3/2020	ALS
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2-Methyl Naphthalene	0.000041	mg/L	11/3/2020	ALS
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Acenaphthene	<0.000020	mg/L	11/3/2020	ALS
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Acenaphthylene	0.000024	mg/L	11/3/2020	ALS
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Acridine	<0.000020	mg/L	11/3/2020	ALS
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Anthracene	<0.000010	mg/L	11/3/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	11/3/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	11/3/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	11/3/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	11/3/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	11/3/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	11/3/2020	ALS
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Chrysene	<0.000020	mg/L	11/3/2020	ALS
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Surrogate: d10-Acenaphthene	91.3	%	11/3/2020	ALS
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Surrogate: d10-Phenanthrene	99.8	%	11/3/2020	ALS
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Surrogate: d12-Chrysene	82.6	%	11/3/2020	ALS
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Surrogate: d8-Naphthalene	89.7	%	11/3/2020	ALS
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Surrogate: d9-Acridine (SS)	81.4	%	11/3/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	11/3/2020	ALS
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Fluoranthene	<0.000020	mg/L	11/3/2020	ALS
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Fluorene	<0.000020	mg/L	11/3/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	11/3/2020	ALS
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Naphthalene	0.000077	mg/L	11/3/2020	ALS
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Phenanthrene	<0.000050	mg/L	11/3/2020	ALS
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Pyrene	<0.000010	mg/L	11/3/2020	ALS
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Quinoline	<0.000020	mg/L	11/3/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	92.300	%	11/3/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	11/3/2020	ALS
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CCME PHC F2-F4 in water

Fraction 3 (C16-C34)	<0.250	mg/L	11/3/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	11/3/2020	ALS

Cyanide

Cyanide, Total in water	<0.0010	mg/L	11/3/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	86.000	%	11/3/2020	ALS
Surrogate: d14-Terphenyl in water	101.800	%	11/3/2020	ALS
Diazinon in water	<0.1000	ug/L	11/3/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	11/3/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	11/3/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	11/3/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	11/3/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	11/3/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	11/3/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	87.4	%	11/3/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	11/3/2020	ALS
Bromoxynil in water	<0.0001	ug/L	11/3/2020	ALS
Clopyralid in water	<0.0001	ug/L	11/3/2020	ALS
Dicamba in water	<0.0001	ug/L	11/3/2020	ALS
Dinoseb in water	<0.0001	ug/L	11/3/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	11/3/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	11/3/2020	ALS
Mecoprop in water	<0.0001	ug/L	11/3/2020	ALS
Picloram in water	<0.0001	ug/L	11/3/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/4/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/4/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/4/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/4/2020	ALS
Surrogate: 1,4-Difluorobenzene	98.2	%	11/4/2020	ALS
Acetone	<0.050	mg/L	11/4/2020	ALS
Benzene	<0.00050	mg/L	11/4/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/4/2020	ALS

VOC plus F1 by GCMS

Bromoform	<0.0010	mg/L	11/4/2020	ALS
Bromomethane	<0.001	mg/L	11/4/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/4/2020	ALS
Chloroethane	<0.001	mg/L	11/4/2020	ALS
Chloroform	<0.00050	mg/L	11/4/2020	ALS
Chloromethane	<0.005	mg/L	11/4/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/4/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/4/2020	ALS
Dichloromethane	<0.02000	mg/L	11/4/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/4/2020	ALS
F1	<0.1000	mg/L	11/4/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/4/2020	ALS
o-Xylene	<0.0005	mg/L	11/4/2020	ALS
Styrene	<0.0010	mg/L	11/4/2020	ALS
Toluene	<0.00050	mg/L	11/4/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/4/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/4/2020	ALS

Sample No. : 337286
Sample Description : GWQ25-W13
Sample Date : October 20, 2020
Sample Received : October 20, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	201 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, total to pH 4.5	201 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.21 ± 16.9%	mg/L		10/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/26/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2230 ± 6%	mg/L		10/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	808 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	230 ± 6.1%	mg/L		11/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8120 ± 7.2%	uS		10/23/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.35 ± 0.07 units	units		10/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5740 ± 6.2%	mg/L		10/22/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5150 ± 6.5%	mg/L		10/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	591.0	mg/L		10/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	0.9 ± 13%	mg/L		10/23/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.5 ± 13%	mg/L		10/23/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.005372 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.012708 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	0.87440 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	441.36 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00072 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.001143 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	0.57580 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	193.08 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.05766 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.002411 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0050 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	28.142 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00134 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1255.9 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	0.005583 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.00813 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1100	mg/L	11/4/2020	COW_ASB
Total Hardness, calculated in water	1900	mg/L	11/4/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.59 ± 4.4%	NTU	10/20/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/30/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/30/2020	ALS
Arsenic (As), dissolved in water	0.00571	mg/L	10/30/2020	ALS
Barium (Ba), dissolved in water	0.0117	mg/L	10/30/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/30/2020	ALS
Boron (B), dissolved in water	0.8010	mg/L	10/30/2020	ALS
Cadmium (Cd), dissolved in water	0.000005	mg/L	10/30/2020	ALS
Calcium (Ca), dissolved in water	377.0000	mg/L	10/30/2020	ALS
Cesium (Cs), dissolved in water	0.000024	mg/L	10/30/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Cobalt (Co), dissolved in water	0.00130	mg/L	10/30/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	10/30/2020	ALS
Hardness dissolved in water, calculated	1703.2	mg/L	10/30/2020	ALS
Iron (Fe), dissolved in water	0.5170	mg/L	10/30/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/30/2020	ALS
Lithium (Li), dissolved in water	0.3340	mg/L	10/30/2020	ALS
Magnesium (Mg), dissolved in water	185.0000	mg/L	10/30/2020	ALS
Manganese (Mn), dissolved in water	0.0549	mg/L	10/30/2020	ALS
Molybdenum (Mo), dissolved in water	0.002120	mg/L	10/30/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00193	mg/L	10/30/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/30/2020	ALS
Potassium (K), dissolved in water	25.7000	mg/L	10/30/2020	ALS
Rubidium (Rb), dissolved in water	0.0092	mg/L	10/30/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	10/30/2020	ALS
Silicon (Si), dissolved in water	7.3600	mg/L	10/30/2020	ALS
Silver (Ag), dissolved in water	0.000014	mg/L	10/30/2020	ALS
Sodium (Na), dissolved in water	1180.0000	mg/L	10/30/2020	ALS
Strontium (Sr), dissolved in water	3.9900	mg/L	10/30/2020	ALS
Sulfur (S), dissolved in water	296.0000	mg/L	10/30/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/30/2020	ALS
Thallium (Tl), dissolved in water	0.000017	mg/L	10/30/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/30/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Uranium (U), dissolved in water	0.006130	mg/L	10/30/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/30/2020	ALS
Zinc (Zn), dissolved in water	0.0016	mg/L	10/30/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/30/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/30/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/30/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	10/30/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/30/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/30/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/30/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.3 ± 15%	mg/L	10/23/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.26	mg/L	10/27/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	249.00	mg/L	10/30/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	204.00	mg/L	10/30/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/30/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/30/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.29	mg/L	10/30/2020	ALS
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Carbons

Dissolved Inorganic Carbon	37.6	mg/L	10/30/2020	ALS
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Dissolved Organic Carbon	3.5	mg/L	10/30/2020	ALS
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Total Dissolved Carbon by Calculation	41.1	mg/L	10/30/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2260.000	mg/L	10/30/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	774.00	mg/L	10/30/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	10/30/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	10/30/2020	ALS
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Acenaphthene	<0.000020	mg/L	10/30/2020	ALS
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Acenaphthylene	<0.000020	mg/L	10/30/2020	ALS
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Acridine	<0.000020	mg/L	10/30/2020	ALS
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Anthracene	<0.000010	mg/L	10/30/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	10/30/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	10/30/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	10/30/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	10/30/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	10/30/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	10/30/2020	ALS
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Chrysene	<0.000020	mg/L	10/30/2020	ALS
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Surrogate: d10-Acenaphthene	94.6	%	10/30/2020	ALS
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Surrogate: d10-Phenanthrene	96.4	%	10/30/2020	ALS
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Surrogate: d12-Chrysene	79.0	%	10/30/2020	ALS
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Surrogate: d8-Naphthalene	97.9	%	10/30/2020	ALS
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Surrogate: d9-Acridine (SS)	92.0	%	10/30/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	10/30/2020	ALS
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Fluoranthene	<0.000020	mg/L	10/30/2020	ALS
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Fluorene	<0.000020	mg/L	10/30/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	10/30/2020	ALS
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Naphthalene	<0.000050	mg/L	10/30/2020	ALS
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Phenanthrene	<0.000050	mg/L	10/30/2020	ALS
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Pyrene	0.000063	mg/L	10/30/2020	ALS
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Quinoline	<0.000220	mg/L	10/30/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	92.600	%	10/30/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/30/2020	ALS
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CCME PHC F2-F4 in water

Fraction 3 (C16-C34)	<0.250	mg/L	10/30/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	10/30/2020	ALS

Cyanide

Cyanide, Total in water	<0.0010	mg/L	10/30/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	86.000	%	10/30/2020	ALS
Surrogate: d14-Terphenyl in water	98.600	%	10/30/2020	ALS
Diazinon in water	<0.1000	ug/L	10/30/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0025	mg/L	10/30/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/30/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	10/30/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	10/30/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	10/30/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0010	ug/L	10/30/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	87.5	%	10/30/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	10/30/2020	ALS
Bromoxynil in water	<0.0001	ug/L	10/30/2020	ALS
Clopyralid in water	<0.0001	ug/L	10/30/2020	ALS
Dicamba in water	<0.0001	ug/L	10/30/2020	ALS
Dinoseb in water	<0.0001	ug/L	10/30/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	10/30/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	10/30/2020	ALS
Mecoprop in water	<0.0001	ug/L	10/30/2020	ALS
Picloram in water	<0.0001	ug/L	10/30/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/4/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/4/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/4/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/4/2020	ALS
Surrogate: 1,4-Difluorobenzene	100.2	%	11/4/2020	ALS
Acetone	<0.050	mg/L	11/4/2020	ALS
Benzene	<0.00050	mg/L	11/4/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/4/2020	ALS

VOC plus F1 by GCMS

Bromoform	<0.0010	mg/L	11/4/2020	ALS
Bromomethane	<0.001	mg/L	11/4/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/4/2020	ALS
Chloroethane	<0.001	mg/L	11/4/2020	ALS
Chloroform	0.00252	mg/L	11/4/2020	ALS
Chloromethane	<0.005	mg/L	11/4/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/4/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/4/2020	ALS
Dichloromethane	<0.02000	mg/L	11/4/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/4/2020	ALS
F1	0.1500	mg/L	11/4/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/4/2020	ALS
o-Xylene	<0.0005	mg/L	11/4/2020	ALS
Styrene	<0.0010	mg/L	11/4/2020	ALS
Toluene	<0.00050	mg/L	11/4/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/4/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/4/2020	ALS

Sample No. : 337287
Sample Description : GWQ25-W14
Sample Date : October 15, 2020
Sample Received : October 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	141 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	141 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.16 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.005 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2400 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	740 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	158 ± 6.1%	mg/L		10/28/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8400 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.55 ± 0.07 units	units		10/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5670 ± 6.2%	mg/L		10/16/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5300 ± 6.5%	mg/L		10/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	370.0	mg/L		10/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.6 ± 13%	mg/L		10/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.2 ± 13%	mg/L		10/22/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.005654 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.013854 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	1.0884 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	304.74 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00123 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.000781 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	0.78500 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	158.29 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.02865 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.001711 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0054 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	42.441 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00193 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1511.8 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	0.000242 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.00601 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	761	mg/L	11/4/2020	COW_ASB
Total Hardness, calculated in water	1410	mg/L	11/4/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	5.43 ± 4.4%	NTU	10/15/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/28/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/28/2020	ALS
Arsenic (As), dissolved in water	0.00583	mg/L	10/28/2020	ALS
Barium (Ba), dissolved in water	0.0133	mg/L	10/28/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/28/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/28/2020	ALS
Boron (B), dissolved in water	0.8810	mg/L	10/28/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	10/28/2020	ALS
Calcium (Ca), dissolved in water	303.0000	mg/L	10/28/2020	ALS
Cesium (Cs), dissolved in water	0.000061	mg/L	10/28/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/28/2020	ALS
Cobalt (Co), dissolved in water	0.00064	mg/L	10/28/2020	ALS
Copper (Cu), dissolved in water	0.00076	mg/L	10/28/2020	ALS
Hardness dissolved in water, calculated	1403.1	mg/L	10/28/2020	ALS
Iron (Fe), dissolved in water	0.7330	mg/L	10/28/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/28/2020	ALS
Lithium (Li), dissolved in water	0.3310	mg/L	10/28/2020	ALS
Magnesium (Mg), dissolved in water	157.0000	mg/L	10/28/2020	ALS
Manganese (Mn), dissolved in water	0.0266	mg/L	10/28/2020	ALS
Molybdenum (Mo), dissolved in water	0.003020	mg/L	10/28/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00128	mg/L	10/28/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/28/2020	ALS
Potassium (K), dissolved in water	38.6000	mg/L	10/28/2020	ALS
Rubidium (Rb), dissolved in water	0.0170	mg/L	10/28/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	10/28/2020	ALS
Silicon (Si), dissolved in water	4.8700	mg/L	10/28/2020	ALS
Silver (Ag), dissolved in water	0.000027	mg/L	10/28/2020	ALS
Sodium (Na), dissolved in water	1460.0000	mg/L	10/28/2020	ALS
Strontium (Sr), dissolved in water	4.1400	mg/L	10/28/2020	ALS
Sulfur (S), dissolved in water	297.0000	mg/L	10/28/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/28/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/28/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/28/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/28/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/28/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/28/2020	ALS
Uranium (U), dissolved in water	0.000750	mg/L	10/28/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/28/2020	ALS
Zinc (Zn), dissolved in water	0.0026	mg/L	10/28/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/28/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/28/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/28/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/28/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/28/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/28/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/28/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.3 ± 15%	mg/L	10/21/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.25	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	176.00	mg/L	10/28/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	144.00	mg/L	10/28/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/28/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/28/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.27	mg/L	10/28/2020	ALS
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Carbons

Dissolved Inorganic Carbon	25.0	mg/L	10/28/2020	ALS
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Dissolved Organic Carbon	1.6	mg/L	10/28/2020	ALS
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Total Dissolved Carbon by Calculation	26.5	mg/L	10/28/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2500.000	mg/L	10/28/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	831.00	mg/L	10/28/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	10/28/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	10/28/2020	ALS
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Acenaphthene	<0.000020	mg/L	10/28/2020	ALS
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Acenaphthylene	<0.000020	mg/L	10/28/2020	ALS
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Acridine	<0.000020	mg/L	10/28/2020	ALS
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Anthracene	<0.000010	mg/L	10/28/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	10/28/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	10/28/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	10/28/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	10/28/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	10/28/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	10/28/2020	ALS
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Chrysene	<0.000020	mg/L	10/28/2020	ALS
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Surrogate: d10-Acenaphthene	88.1	%	10/28/2020	ALS
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Surrogate: d10-Phenanthrene	84.6	%	10/28/2020	ALS
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Surrogate: d12-Chrysene	77.5	%	10/28/2020	ALS
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Surrogate: d8-Naphthalene	81.7	%	10/28/2020	ALS
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Surrogate: d9-Acridine (SS)	86.4	%	10/28/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	10/28/2020	ALS
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Fluoranthene	<0.000020	mg/L	10/28/2020	ALS
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Fluorene	<0.000020	mg/L	10/28/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	10/28/2020	ALS
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Naphthalene	<0.000050	mg/L	10/28/2020	ALS
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Phenanthrene	<0.000050	mg/L	10/28/2020	ALS
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Pyrene	0.000021	mg/L	10/28/2020	ALS
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Quinoline	<0.000020	mg/L	10/28/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	88.300	%	10/28/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/28/2020	ALS
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CCME PHC F2-F4 in water

Fraction 3 (C16-C34)	<0.250	mg/L	10/28/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	10/28/2020	ALS

Cyanide

Cyanide, Total in water	<0.0010	mg/L	10/28/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	90.900	%	10/28/2020	ALS
Surrogate: d14-Terphenyl in water	100.200	%	10/28/2020	ALS
Diazinon in water	<0.1000	ug/L	10/28/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/28/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/28/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	10/28/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	10/28/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	10/28/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	10/28/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	120.0	%	10/28/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	10/28/2020	ALS
Bromoxynil in water	<0.0001	ug/L	10/28/2020	ALS
Clopyralid in water	<0.0001	ug/L	10/28/2020	ALS
Dicamba in water	<0.0001	ug/L	10/28/2020	ALS
Dinoseb in water	<0.0001	ug/L	10/28/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	10/28/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	10/28/2020	ALS
Mecoprop in water	<0.0001	ug/L	10/28/2020	ALS
Picloram in water	<0.0001	ug/L	10/28/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/4/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/4/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/4/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/4/2020	ALS
Surrogate: 1,4-Difluorobenzene	100.9	%	11/4/2020	ALS
Acetone	<0.050	mg/L	11/4/2020	ALS
Benzene	<0.00050	mg/L	11/4/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/4/2020	ALS

VOC plus F1 by GCMS

Bromoform	<0.0010	mg/L	11/4/2020	ALS
Bromomethane	<0.001	mg/L	11/4/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/4/2020	ALS
Chloroethane	<0.001	mg/L	11/4/2020	ALS
Chloroform	0.00064	mg/L	11/4/2020	ALS
Chloromethane	<0.005	mg/L	11/4/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/4/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/4/2020	ALS
Dichloromethane	<0.00700	mg/L	11/4/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/4/2020	ALS
F1	<0.1000	mg/L	11/4/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/4/2020	ALS
o-Xylene	<0.0005	mg/L	11/4/2020	ALS
Styrene	<0.0010	mg/L	11/4/2020	ALS
Toluene	<0.00050	mg/L	11/4/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/4/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/4/2020	ALS

Sample No. : 337288
Sample Description : GWQ25-W15
Sample Date : October 20, 2020
Sample Received : October 20, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	157 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, total to pH 4.5	157 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.05 ± 16.9%	mg/L		10/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/26/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2160 ± 6%	mg/L		10/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	803 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	138 ± 6.1%	mg/L		11/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	7860 ± 7.2%	uS		10/23/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.59 ± 0.07 units	units		10/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5030 ± 6.2%	mg/L		10/22/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4850 ± 6.5%	mg/L		10/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	180.0	mg/L		10/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.0 ± 13%	mg/L		10/23/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.4 ± 13%	mg/L		10/23/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.006300 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.013606 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	0.97684 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	341.68 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00086 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.000961 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	0.74792 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	168.68 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.03696 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.001681 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0060 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	36.354 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00152 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1394.0 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	0.000360 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.00432 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	853	mg/L	11/4/2020	COW_ASB
Total Hardness, calculated in water	1550	mg/L	11/4/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2.58 ± 4.4%	NTU	10/20/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/30/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/30/2020	ALS
Arsenic (As), dissolved in water	0.00641	mg/L	10/30/2020	ALS
Barium (Ba), dissolved in water	0.0125	mg/L	10/30/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/30/2020	ALS
Boron (B), dissolved in water	0.8570	mg/L	10/30/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	10/30/2020	ALS
Calcium (Ca), dissolved in water	277.0000	mg/L	10/30/2020	ALS
Cesium (Cs), dissolved in water	0.000044	mg/L	10/30/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Cobalt (Co), dissolved in water	0.00063	mg/L	10/30/2020	ALS
Copper (Cu), dissolved in water	0.00046	mg/L	10/30/2020	ALS
Hardness dissolved in water, calculated	1317.6	mg/L	10/30/2020	ALS
Iron (Fe), dissolved in water	0.6720	mg/L	10/30/2020	ALS
Lead (Pb), dissolved in water	0.000061	mg/L	10/30/2020	ALS
Lithium (Li), dissolved in water	0.2810	mg/L	10/30/2020	ALS
Magnesium (Mg), dissolved in water	152.0000	mg/L	10/30/2020	ALS
Manganese (Mn), dissolved in water	0.0322	mg/L	10/30/2020	ALS
Molybdenum (Mo), dissolved in water	0.002460	mg/L	10/30/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00135	mg/L	10/30/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/30/2020	ALS
Potassium (K), dissolved in water	32.0000	mg/L	10/30/2020	ALS
Rubidium (Rb), dissolved in water	0.0135	mg/L	10/30/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	10/30/2020	ALS
Silicon (Si), dissolved in water	5.5700	mg/L	10/30/2020	ALS
Silver (Ag), dissolved in water	0.000016	mg/L	10/30/2020	ALS
Sodium (Na), dissolved in water	1230.0000	mg/L	10/30/2020	ALS
Strontium (Sr), dissolved in water	3.7600	mg/L	10/30/2020	ALS
Sulfur (S), dissolved in water	289.0000	mg/L	10/30/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/30/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/30/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/30/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Uranium (U), dissolved in water	0.000900	mg/L	10/30/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/30/2020	ALS
Zinc (Zn), dissolved in water	0.0017	mg/L	10/30/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/30/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/30/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/30/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/30/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/30/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/30/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/30/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.1 ± 15%	mg/L	10/23/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.08	mg/L	10/27/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	169.00	mg/L	10/30/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	139.00	mg/L	10/30/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/30/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/30/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.10	mg/L	10/30/2020	ALS
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Carbons

Dissolved Inorganic Carbon	25.1	mg/L	10/30/2020	ALS
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Dissolved Organic Carbon	1.8	mg/L	10/30/2020	ALS
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Total Dissolved Carbon by Calculation	26.9	mg/L	10/30/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2160.000	mg/L	10/30/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	765.00	mg/L	10/30/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	10/30/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	10/30/2020	ALS
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Acenaphthene	<0.000020	mg/L	10/30/2020	ALS
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Acenaphthylene	<0.000020	mg/L	10/30/2020	ALS
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Acridine	<0.000020	mg/L	10/30/2020	ALS
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Anthracene	<0.000010	mg/L	10/30/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	10/30/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	10/30/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	10/30/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	10/30/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	10/30/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	10/30/2020	ALS
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Chrysene	<0.000020	mg/L	10/30/2020	ALS
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Surrogate: d10-Acenaphthene	93.4	%	10/30/2020	ALS
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Surrogate: d10-Phenanthrene	95.7	%	10/30/2020	ALS
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Surrogate: d12-Chrysene	81.8	%	10/30/2020	ALS
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Surrogate: d8-Naphthalene	95.8	%	10/30/2020	ALS
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Surrogate: d9-Acridine (SS)	79.4	%	10/30/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	10/30/2020	ALS
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Fluoranthene	<0.000020	mg/L	10/30/2020	ALS
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Fluorene	<0.000020	mg/L	10/30/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	10/30/2020	ALS
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Naphthalene	<0.000050	mg/L	10/30/2020	ALS
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Phenanthrene	<0.000050	mg/L	10/30/2020	ALS
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Pyrene	0.000018	mg/L	10/30/2020	ALS
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Quinoline	<0.000020	mg/L	10/30/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.800	%	10/30/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/30/2020	ALS
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CCME PHC F2-F4 in water

Fraction 3 (C16-C34)	<0.250	mg/L	10/30/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	10/30/2020	ALS

Cyanide

Cyanide, Total in water	<0.0010	mg/L	10/30/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	85.400	%	10/30/2020	ALS
Surrogate: d14-Terphenyl in water	96.800	%	10/30/2020	ALS
Diazinon in water	<0.1000	ug/L	10/30/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	10/30/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/30/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	10/30/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	10/30/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	10/30/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	10/30/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	87.8	%	10/30/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	10/30/2020	ALS
Bromoxynil in water	<0.0001	ug/L	10/30/2020	ALS
Clopyralid in water	<0.0001	ug/L	10/30/2020	ALS
Dicamba in water	<0.0001	ug/L	10/30/2020	ALS
Dinoseb in water	<0.0001	ug/L	10/30/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	10/30/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	10/30/2020	ALS
Mecoprop in water	<0.0001	ug/L	10/30/2020	ALS
Picloram in water	<0.0001	ug/L	10/30/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/4/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/4/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/4/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/4/2020	ALS
Surrogate: 1,4-Difluorobenzene	100.2	%	11/4/2020	ALS
Acetone	<0.050	mg/L	11/4/2020	ALS
Benzene	<0.00050	mg/L	11/4/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/4/2020	ALS

VOC plus F1 by GCMS

Bromoform	<0.0010	mg/L	11/4/2020	ALS
Bromomethane	<0.001	mg/L	11/4/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/4/2020	ALS
Chloroethane	<0.001	mg/L	11/4/2020	ALS
Chloroform	<0.00050	mg/L	11/4/2020	ALS
Chloromethane	<0.005	mg/L	11/4/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/4/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/4/2020	ALS
Dichloromethane	<0.02000	mg/L	11/4/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/4/2020	ALS
F1	<0.1000	mg/L	11/4/2020	ALS
Methytertbutylether [MTBE]	<0.0005	mg/L	11/4/2020	ALS
o-Xylene	<0.0005	mg/L	11/4/2020	ALS
Styrene	<0.0010	mg/L	11/4/2020	ALS
Toluene	<0.00050	mg/L	11/4/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/4/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/4/2020	ALS

Sample No. : 337289
Sample Description : GWQ25-W16
Sample Date : October 21, 2020
Sample Received : October 21, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	140 ± 2.8%	mg/L		10/22/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/22/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/22/2020	COW_ASB
Alkalinity, total to pH 4.5	140 ± 2.8%	mg/L		10/22/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/22/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.04 ± 16.9%	mg/L		10/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/26/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2130 ± 6%	mg/L		10/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	800 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	116 ± 6.1%	mg/L		11/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	7790 ± 7.2%	uS		10/23/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.56 ± 0.07 units	units		10/21/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5210 ± 6.2%	mg/L		10/22/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4760 ± 6.5%	mg/L		10/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	452.0	mg/L		10/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.3 ± 13%	mg/L		10/23/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.3 ± 13%	mg/L		10/23/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.005762 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.017226 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	0.99365 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	355.88 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00146 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.001670 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	1.4539 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	0.000800 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	178.19 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.05926 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.002636 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0548 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	36.587 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00166 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1357.5 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	0.000378 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.00996 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	889	mg/L	11/4/2020	COW_ASB
Total Hardness, calculated in water	1620	mg/L	11/4/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	22.60 ± 4.4%	NTU	10/21/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0011	mg/L	11/3/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	11/3/2020	ALS
Arsenic (As), dissolved in water	0.00559	mg/L	11/3/2020	ALS
Barium (Ba), dissolved in water	0.0117	mg/L	11/3/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	11/3/2020	ALS
Boron (B), dissolved in water	0.8570	mg/L	11/3/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	11/3/2020	ALS
Calcium (Ca), dissolved in water	281.0000	mg/L	11/3/2020	ALS
Cesium (Cs), dissolved in water	0.000046	mg/L	11/3/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Cobalt (Co), dissolved in water	0.00057	mg/L	11/3/2020	ALS
Copper (Cu), dissolved in water	0.00063	mg/L	11/3/2020	ALS
Hardness dissolved in water, calculated	1364.7	mg/L	11/3/2020	ALS
Iron (Fe), dissolved in water	0.6370	mg/L	11/3/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	11/3/2020	ALS
Lithium (Li), dissolved in water	0.2580	mg/L	11/3/2020	ALS
Magnesium (Mg), dissolved in water	161.0000	mg/L	11/3/2020	ALS
Manganese (Mn), dissolved in water	0.0356	mg/L	11/3/2020	ALS
Molybdenum (Mo), dissolved in water	0.002300	mg/L	11/3/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00123	mg/L	11/3/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	11/3/2020	ALS
Potassium (K), dissolved in water	33.3000	mg/L	11/3/2020	ALS
Rubidium (Rb), dissolved in water	0.0139	mg/L	11/3/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	11/3/2020	ALS
Silicon (Si), dissolved in water	5.2500	mg/L	11/3/2020	ALS
Silver (Ag), dissolved in water	0.000016	mg/L	11/3/2020	ALS
Sodium (Na), dissolved in water	1180.0000	mg/L	11/3/2020	ALS
Strontium (Sr), dissolved in water	3.8200	mg/L	11/3/2020	ALS
Sulfur (S), dissolved in water	298.0000	mg/L	11/3/2020	ALS
Tellurium (Te), dissolved in water	0.00020	mg/L	11/3/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	11/3/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	11/3/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Uranium (U), dissolved in water	0.000796	mg/L	11/3/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	11/3/2020	ALS
Zinc (Zn), dissolved in water	0.0029	mg/L	11/3/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	11/3/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	11/3/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	11/3/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	11/3/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	11/3/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	11/3/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.1 ± 15%	mg/L	10/23/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.08	mg/L	10/27/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	171.00	mg/L	11/3/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	140.00	mg/L	11/3/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	11/3/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	11/3/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.04	mg/L	11/3/2020	ALS
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Carbons

Dissolved Inorganic Carbon	24.1	mg/L	11/3/2020	ALS
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Dissolved Organic Carbon	2.0	mg/L	11/3/2020	ALS
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Total Dissolved Carbon by Calculation	26.1	mg/L	11/3/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2280.000	mg/L	11/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	807.00	mg/L	11/3/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	<0.000020	mg/L	11/3/2020	ALS
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2-Methyl Naphthalene	<0.000020	mg/L	11/3/2020	ALS
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Acenaphthene	<0.000020	mg/L	11/3/2020	ALS
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Acenaphthylene	<0.000020	mg/L	11/3/2020	ALS
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Acridine	<0.000020	mg/L	11/3/2020	ALS
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Anthracene	<0.000010	mg/L	11/3/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	11/3/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	11/3/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	11/3/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	11/3/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	11/3/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	11/3/2020	ALS
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Chrysene	<0.000020	mg/L	11/3/2020	ALS
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Surrogate: d10-Acenaphthene	84.5	%	11/3/2020	ALS
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Surrogate: d10-Phenanthrene	91.3	%	11/3/2020	ALS
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Surrogate: d12-Chrysene	77.3	%	11/3/2020	ALS
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Surrogate: d8-Naphthalene	82.0	%	11/3/2020	ALS
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Surrogate: d9-Acridine (SS)	82.1	%	11/3/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	11/3/2020	ALS
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Fluoranthene	<0.000020	mg/L	11/3/2020	ALS
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Fluorene	<0.000020	mg/L	11/3/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	11/3/2020	ALS
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Naphthalene	<0.000050	mg/L	11/3/2020	ALS
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Phenanthrene	<0.000050	mg/L	11/3/2020	ALS
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Pyrene	0.000021	mg/L	11/3/2020	ALS
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Quinoline	<0.000020	mg/L	11/3/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	90.600	%	11/3/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	11/3/2020	ALS
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CCME PHC F2-F4 in water

Fraction 3 (C16-C34)	<0.250	mg/L	11/3/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	11/3/2020	ALS

Cyanide

Cyanide, Total in water	<0.0010	mg/L	11/3/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	92.100	%	11/3/2020	ALS
Surrogate: d14-Terphenyl in water	106.900	%	11/3/2020	ALS
Diazinon in water	<0.1000	ug/L	11/3/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0061	mg/L	11/3/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	11/3/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	11/3/2020	ALS
2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	11/3/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	11/3/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	11/3/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	84.6	%	11/3/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	11/3/2020	ALS
Bromoxynil in water	<0.0001	ug/L	11/3/2020	ALS
Clopyralid in water	<0.0001	ug/L	11/3/2020	ALS
Dicamba in water	<0.0001	ug/L	11/3/2020	ALS
Dinoseb in water	<0.0001	ug/L	11/3/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	11/3/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	11/3/2020	ALS
Mecoprop in water	<0.0001	ug/L	11/3/2020	ALS
Picloram in water	<0.0001	ug/L	11/3/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/4/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/4/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/4/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/4/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/4/2020	ALS
Surrogate: 1,4-Difluorobenzene	102.6	%	11/4/2020	ALS
Acetone	<0.050	mg/L	11/4/2020	ALS
Benzene	<0.00050	mg/L	11/4/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/4/2020	ALS

VOC plus F1 by GCMS

Bromoform	0.0044	mg/L	11/4/2020	ALS
Bromomethane	<0.001	mg/L	11/4/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/4/2020	ALS
Chloroethane	<0.001	mg/L	11/4/2020	ALS
Chloroform	0.00099	mg/L	11/4/2020	ALS
Chloromethane	<0.005	mg/L	11/4/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Dibromochloromethane	0.0007	mg/L	11/4/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/4/2020	ALS
Dichloromethane	<0.02500	mg/L	11/4/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/4/2020	ALS
F1	<0.1000	mg/L	11/4/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/4/2020	ALS
o-Xylene	<0.0005	mg/L	11/4/2020	ALS
Styrene	<0.0010	mg/L	11/4/2020	ALS
Toluene	<0.00050	mg/L	11/4/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/4/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/4/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/4/2020	ALS

Sample No. : 337290
Sample Description : GWQ25-100
Sample Date : October 14, 2020
Sample Received : October 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	140 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	140 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.09 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.005 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2330 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	775 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	126 ± 6.1%	mg/L		10/28/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8150 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.68 ± 0.07 units	units		10/14/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5470 ± 6.2%	mg/L		10/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5110 ± 6.5%	mg/L		10/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	357.0	mg/L		10/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.4 ± 13%	mg/L		10/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.1 ± 13%	mg/L		10/16/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000132 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.006375 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.013524 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	1.0741 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	303.78 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00113 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.001761 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	0.87216 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	0.000085 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	166.94 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.03504 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.002110 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0086 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	41.109 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00139 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1396.5 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	0.000287 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.01065 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	759	mg/L	11/5/2020	COW_ASB
Total Hardness, calculated in water	1450	mg/L	11/5/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	4.25 ± 4.4%	NTU	10/14/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/24/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/24/2020	ALS
Arsenic (As), dissolved in water	0.01460	mg/L	10/24/2020	ALS
Barium (Ba), dissolved in water	0.0129	mg/L	10/24/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/24/2020	ALS
Boron (B), dissolved in water	0.7650	mg/L	10/24/2020	ALS
Cadmium (Cd), dissolved in water	0.000006	mg/L	10/24/2020	ALS
Calcium (Ca), dissolved in water	285.0000	mg/L	10/24/2020	ALS
Cesium (Cs), dissolved in water	0.000051	mg/L	10/24/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Cobalt (Co), dissolved in water	0.00067	mg/L	10/24/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	10/24/2020	ALS
Hardness dissolved in water, calculated	1424.1	mg/L	10/24/2020	ALS
Iron (Fe), dissolved in water	0.8460	mg/L	10/24/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/24/2020	ALS
Lithium (Li), dissolved in water	0.2910	mg/L	10/24/2020	ALS
Magnesium (Mg), dissolved in water	173.0000	mg/L	10/24/2020	ALS
Manganese (Mn), dissolved in water	0.0326	mg/L	10/24/2020	ALS
Molybdenum (Mo), dissolved in water	0.002880	mg/L	10/24/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00143	mg/L	10/24/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/24/2020	ALS
Potassium (K), dissolved in water	41.0000	mg/L	10/24/2020	ALS
Rubidium (Rb), dissolved in water	0.0164	mg/L	10/24/2020	ALS
Selenium (Se), dissolved in water	0.000062	mg/L	10/24/2020	ALS
Silicon (Si), dissolved in water	5.4100	mg/L	10/24/2020	ALS
Silver (Ag), dissolved in water	0.000046	mg/L	10/24/2020	ALS
Sodium (Na), dissolved in water	1340.0000	mg/L	10/24/2020	ALS
Strontium (Sr), dissolved in water	4.3500	mg/L	10/24/2020	ALS
Sulfur (S), dissolved in water	284.0000	mg/L	10/24/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/24/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/24/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/24/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Uranium (U), dissolved in water	0.000757	mg/L	10/24/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/24/2020	ALS
Zinc (Zn), dissolved in water	0.0016	mg/L	10/24/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/24/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/24/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	<0.001	mg/L	10/24/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/24/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/24/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/24/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.0 ± 15%	mg/L	10/16/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.02	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	173.00	mg/L	10/24/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	142.00	mg/L	10/24/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/24/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.15	mg/L	10/24/2020	ALS
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Carbons

Dissolved Inorganic Carbon	19.2	mg/L	10/24/2020	ALS
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Dissolved Organic Carbon	1.6	mg/L	10/24/2020	ALS
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Total Dissolved Carbon by Calculation	20.8	mg/L	10/24/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2480.000	mg/L	10/24/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	867.00	mg/L	10/24/2020	ALS
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CCME PAHs in mg/L

1-Methyl Naphthalene	0.000030	mg/L	10/24/2020	ALS
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2-Methyl Naphthalene	0.000045	mg/L	10/24/2020	ALS
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Acenaphthene	<0.000020	mg/L	10/24/2020	ALS
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Acenaphthylene	<0.000020	mg/L	10/24/2020	ALS
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Acridine	<0.000020	mg/L	10/24/2020	ALS
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Anthracene	<0.000010	mg/L	10/24/2020	ALS
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B(a)P Total Potency Equivalent	<0.000030	mg/L	10/24/2020	ALS
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Benzo(a)anthracene	<0.000010	mg/L	10/24/2020	ALS
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Benzo(a)pyrene	<0.0000050	mg/L	10/24/2020	ALS
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Benzo(b&j)fluoranthene	<0.000010	mg/L	10/24/2020	ALS
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Benzo(g,h,i)perylene	<0.000020	mg/L	10/24/2020	ALS
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Benzo(k)fluoranthene	<0.000010	mg/L	10/24/2020	ALS
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Chrysene	<0.000020	mg/L	10/24/2020	ALS
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Surrogate: d10-Acenaphthene	84.7	%	10/24/2020	ALS
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Surrogate: d10-Phenanthrene	86.1	%	10/24/2020	ALS
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Surrogate: d12-Chrysene	82.0	%	10/24/2020	ALS
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Surrogate: d8-Naphthalene	81.3	%	10/24/2020	ALS
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Surrogate: d9-Acridine (SS)	94.7	%	10/24/2020	ALS
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Dibenzo(a,h)anthracene	<0.0000050	mg/L	10/24/2020	ALS
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Fluoranthene	<0.000020	mg/L	10/24/2020	ALS
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Fluorene	<0.000020	mg/L	10/24/2020	ALS
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Indeno(1,2,3-cd)pyrene	<0.000010	mg/L	10/24/2020	ALS
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Naphthalene	0.000093	mg/L	10/24/2020	ALS
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Phenanthrene	<0.000050	mg/L	10/24/2020	ALS
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Pyrene	0.000026	mg/L	10/24/2020	ALS
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Quinoline	0.000048	mg/L	10/24/2020	ALS
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CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	91.300	%	10/24/2020	ALS
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Fraction 2 (C10-C16)	<0.100	mg/L	10/24/2020	ALS
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CCME PHC F2-F4 in water

Fraction 3 (C16-C34)	<0.250	mg/L	10/24/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	10/24/2020	ALS

Cyanide

Cyanide, Total in water	<0.0010	mg/L	10/24/2020	ALS
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Miscellaneous Pesticides

Surrogate: 2-Fluorobiphenyl in water	75.200	%	10/24/2020	ALS
Surrogate: d14-Terphenyl in water	80.300	%	10/24/2020	ALS
Diazinon in water	<0.1000	ug/L	10/24/2020	ALS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	10/24/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	10/24/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	10/24/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	10/24/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	10/24/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	10/24/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	10/24/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	10/24/2020	ALS
Surrogate: 1,4-Difluorobenzene	101.8	%	10/24/2020	ALS
Acetone	<0.050	mg/L	10/24/2020	ALS
Benzene	<0.00050	mg/L	10/24/2020	ALS
Bromodichloromethane	<0.00050	mg/L	10/24/2020	ALS
Bromoform	<0.0010	mg/L	10/24/2020	ALS
Bromomethane	<0.001	mg/L	10/24/2020	ALS
Chlorobenzene	<0.0010	mg/L	10/24/2020	ALS
Chloroethane	<0.001	mg/L	10/24/2020	ALS
Chloroform	0.00365	mg/L	10/24/2020	ALS
Chloromethane	<0.005	mg/L	10/24/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	10/24/2020	ALS
Dibromochloromethane	<0.0005	mg/L	10/24/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	10/24/2020	ALS
Dichloromethane	<0.00500	mg/L	10/24/2020	ALS
Ethylbenzene	<0.00050	mg/L	10/24/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	10/24/2020	ALS
o-Xylene	<0.0005	mg/L	10/24/2020	ALS
Styrene	<0.0010	mg/L	10/24/2020	ALS
Toluene	<0.00050	mg/L	10/24/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	10/24/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	10/24/2020	ALS
Vinyl Chloride	<0.0005	mg/L	10/24/2020	ALS

Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxyacetic acid [2,4,5-T] in water	<0.0001	ug/L	10/24/2020	ALS
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Phenoxy Acid Herbicides

2,4,5-Trichlorophenoxypropionic acid [2,4,5-TP] in water	<0.0001	ug/L	10/24/2020	ALS
2,4-Dichlorophenylacetic acid [2,4-D] in water	<0.0001	ug/L	10/24/2020	ALS
2,4-Dichlorophenoxybutanoic acid [2,4-DB] in water	<0.0001	ug/L	10/24/2020	ALS
Surrogate: 2,4-Dichlorophenylacetic Acid in water	122.0	%	10/24/2020	ALS
2,4-Dichlorophenoxypropanoic acid [2,4-DP] in water	<0.0001	ug/L	10/24/2020	ALS
Bromoxynil in water	<0.0001	ug/L	10/24/2020	ALS
Clopyralid in water	<0.0001	ug/L	10/24/2020	ALS
Dicamba in water	<0.0001	ug/L	10/24/2020	ALS
Dinoseb in water	<0.0001	ug/L	10/24/2020	ALS
2-Methyl-4-chlorophenoxyacetic acid [MCPA] in water	<0.0001	ug/L	10/24/2020	ALS
2-Methyl-4-chlorophenoxybutanoic acid [MCPB] in water	<0.0001	ug/L	10/24/2020	ALS
Mecoprop in water	<0.0001	ug/L	10/24/2020	ALS
Picloram in water	<0.0001	ug/L	10/24/2020	ALS

Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	10/24/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	0.0037	mg/L	10/24/2020	ALS
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Sample No. : 337291
Sample Description : GWQ25-W5
Sample Date : October 15, 2020
Sample Received : October 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	134 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	134 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.03 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.006 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2190 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	870 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	117 ± 6.1%	mg/L		10/28/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	7880 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.55 ± 0.07 units	units		10/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5310 ± 6.2%	mg/L		10/16/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5020 ± 6.5%	mg/L		10/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	287.0	mg/L		10/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.7 ± 13%	mg/L		10/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.2 ± 13%	mg/L		10/22/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001985 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.004988 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.015951 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	1.0290 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	308.08 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00084 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.011713 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	0.73955 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	0.000095 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	169.73 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.02711 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.001535 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0081 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	40.818 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00192 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1364.4 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.19044 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	769	mg/L	11/4/2020	COW_ASB
Total Hardness, calculated in water	1470	mg/L	11/4/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	10.60 ± 4.4%	NTU	10/15/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0048	mg/L	10/27/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/27/2020	ALS
Arsenic (As), dissolved in water	0.00487	mg/L	10/27/2020	ALS
Barium (Ba), dissolved in water	0.0142	mg/L	10/27/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Boron (B), dissolved in water	0.8290	mg/L	10/27/2020	ALS
Cadmium (Cd), dissolved in water	0.000006	mg/L	10/27/2020	ALS
Calcium (Ca), dissolved in water	294.0000	mg/L	10/27/2020	ALS
Cesium (Cs), dissolved in water	0.000076	mg/L	10/27/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Cobalt (Co), dissolved in water	0.00042	mg/L	10/27/2020	ALS
Copper (Cu), dissolved in water	0.00072	mg/L	10/27/2020	ALS
Hardness dissolved in water, calculated	1438.3	mg/L	10/27/2020	ALS
Iron (Fe), dissolved in water	0.7100	mg/L	10/27/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Lithium (Li), dissolved in water	0.2970	mg/L	10/27/2020	ALS
Magnesium (Mg), dissolved in water	171.0000	mg/L	10/27/2020	ALS
Manganese (Mn), dissolved in water	0.0259	mg/L	10/27/2020	ALS
Molybdenum (Mo), dissolved in water	0.002350	mg/L	10/27/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00127	mg/L	10/27/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/27/2020	ALS
Potassium (K), dissolved in water	36.9000	mg/L	10/27/2020	ALS
Rubidium (Rb), dissolved in water	0.0146	mg/L	10/27/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Silicon (Si), dissolved in water	5.4600	mg/L	10/27/2020	ALS
Silver (Ag), dissolved in water	0.000026	mg/L	10/27/2020	ALS
Sodium (Na), dissolved in water	1320.0000	mg/L	10/27/2020	ALS
Strontium (Sr), dissolved in water	4.1800	mg/L	10/27/2020	ALS
Sulfur (S), dissolved in water	293.0000	mg/L	10/27/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/27/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/27/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/27/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Uranium (U), dissolved in water	0.000510	mg/L	10/27/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/27/2020	ALS
Zinc (Zn), dissolved in water	0.0405	mg/L	10/27/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/27/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/27/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/27/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.026	mg/L	10/27/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.1 ± 15%	mg/L	10/21/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.04	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	165.00	mg/L	10/27/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	136.00	mg/L	10/27/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/27/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/27/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.11	mg/L	10/27/2020	ALS
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Carbons

Carbons

Dissolved Inorganic Carbon	24.1	mg/L	10/27/2020	ALS
Dissolved Organic Carbon	1.4	mg/L	10/27/2020	ALS
Total Dissolved Carbon by Calculation	25.5	mg/L	10/27/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2320.000	mg/L	10/27/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	853.00	mg/L	10/27/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	10/27/2020	ALS
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Sample No. : 337292
Sample Description : GWQ25-W7
Sample Date : October 20, 2020
Sample Received : October 20, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	126 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, total to pH 4.5	126 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	>2.000 ± 16.9%	mg/L		10/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/26/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1870 ± 6%	mg/L		10/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	660 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	99.0 ± 6.1%	mg/L		11/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6710 ± 7.2%	uS		10/23/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.64 ± 0.07 units	units		10/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	4290 ± 6.2%	mg/L		10/22/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	4080 ± 6.5%	mg/L		10/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	208.0	mg/L		10/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.7 ± 13%	mg/L		10/23/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.5 ± 13%	mg/L		10/23/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.002592 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.013302 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	0.88565 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	272.30 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00063 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.000957 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	0.98791 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	128.81 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.01165 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.000648 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0113 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	34.162 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00094 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1187.7 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.00496 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	680	mg/L	11/5/2020	COW_ASB
Total Hardness, calculated in water	1210	mg/L	11/5/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	7.70 ± 4.4%	NTU	10/20/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/30/2020	ALS
Antimony (Sb), dissolved in water	<0.001000	mg/L	10/30/2020	ALS
Arsenic (As), dissolved in water	0.00263	mg/L	10/30/2020	ALS
Barium (Ba), dissolved in water	0.0121	mg/L	10/30/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/30/2020	ALS
Boron (B), dissolved in water	0.7960	mg/L	10/30/2020	ALS
Cadmium (Cd), dissolved in water	0.000006	mg/L	10/30/2020	ALS
Calcium (Ca), dissolved in water	231.0000	mg/L	10/30/2020	ALS
Cesium (Cs), dissolved in water	0.000085	mg/L	10/30/2020	ALS
Chromium (Cr), dissolved in water	0.00014	mg/L	10/30/2020	ALS
Cobalt (Co), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Copper (Cu), dissolved in water	0.00064	mg/L	10/30/2020	ALS
Hardness dissolved in water, calculated	1062.7	mg/L	10/30/2020	ALS
Iron (Fe), dissolved in water	0.8230	mg/L	10/30/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/30/2020	ALS
Lithium (Li), dissolved in water	0.2130	mg/L	10/30/2020	ALS
Magnesium (Mg), dissolved in water	118.0000	mg/L	10/30/2020	ALS
Manganese (Mn), dissolved in water	0.0094	mg/L	10/30/2020	ALS
Molybdenum (Mo), dissolved in water	0.003630	mg/L	10/30/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	<0.00050	mg/L	10/30/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/30/2020	ALS
Potassium (K), dissolved in water	29.7000	mg/L	10/30/2020	ALS
Rubidium (Rb), dissolved in water	0.0157	mg/L	10/30/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	10/30/2020	ALS
Silicon (Si), dissolved in water	5.0400	mg/L	10/30/2020	ALS
Silver (Ag), dissolved in water	0.000016	mg/L	10/30/2020	ALS
Sodium (Na), dissolved in water	1060.0000	mg/L	10/30/2020	ALS
Strontium (Sr), dissolved in water	3.2000	mg/L	10/30/2020	ALS
Sulfur (S), dissolved in water	225.0000	mg/L	10/30/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/30/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/30/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/30/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Uranium (U), dissolved in water	0.000073	mg/L	10/30/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/30/2020	ALS
Zinc (Zn), dissolved in water	0.0019	mg/L	10/30/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/30/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/30/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/30/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.020	mg/L	10/30/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/30/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/30/2020	ALS
Total Coliforms by QT97	<1	MPN/100mL	10/30/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	2.2 ± 15%	mg/L	10/23/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	2.19	mg/L	10/27/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	154.00	mg/L	10/30/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	126.00	mg/L	10/30/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/30/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/30/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	2.02	mg/L	10/30/2020	ALS
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Carbons

Dissolved Inorganic Carbon	17.3	mg/L	10/30/2020	ALS
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Dissolved Organic Carbon	1.9	mg/L	10/30/2020	ALS
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Total Dissolved Carbon by Calculation	19.2	mg/L	10/30/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1840.000	mg/L	10/30/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	619.00	mg/L	10/30/2020	ALS
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Sample No. : 337293
Sample Description : GWQ25-W10
Sample Date : October 14, 2020
Sample Received : October 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	149 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	149 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.35 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.007 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.020 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2670 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	908 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	250 ± 6.1%	mg/L		10/28/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8840 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.55 ± 0.07 units	units		10/14/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5980 ± 6.2%	mg/L		10/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5590 ± 6.5%	mg/L		10/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	397.0	mg/L		10/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.8 ± 13%	mg/L		10/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.4 ± 13%	mg/L		10/16/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.002668 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.005238 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.023552 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	1.2464 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	347.01 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00582 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.005054 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	3.2363 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	0.001083 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	171.46 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.07027 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.003121 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0544 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	48.981 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00161 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1618.7 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	0.000583 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.01470 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	867	mg/L	11/5/2020	COW_ASB
Total Hardness, calculated in water	1570	mg/L	11/5/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	23.70 ± 4.4%	NTU	10/14/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	187.00	mg/L	10/22/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	153.00	mg/L	10/22/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/22/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/22/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.71	mg/L	10/22/2020	ALS
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Carbons

Dissolved Inorganic Carbon	28.8	mg/L	10/22/2020	ALS
Dissolved Organic Carbon	1.7	mg/L	10/22/2020	ALS
Total Dissolved Carbon by Calculation	30.5	mg/L	10/22/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2730.000	mg/L	10/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	954.00	mg/L	10/22/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0036	mg/L	10/22/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/22/2020	ALS

Total Metals by ICP-MS

Arsenic (As), dissolved in water	0.01330	mg/L	10/22/2020	ALS
Barium (Ba), dissolved in water	0.0152	mg/L	10/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/22/2020	ALS
Boron (B), dissolved in water	0.8890	mg/L	10/22/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	10/22/2020	ALS
Calcium (Ca), dissolved in water	306.0000	mg/L	10/22/2020	ALS
Cesium (Cs), dissolved in water	0.000079	mg/L	10/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/22/2020	ALS
Cobalt (Co), dissolved in water	0.00039	mg/L	10/22/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	10/22/2020	ALS
Hardness dissolved in water, calculated	1488.9	mg/L	10/22/2020	ALS
Iron (Fe), dissolved in water	1.6700	mg/L	10/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/22/2020	ALS
Lithium (Li), dissolved in water	0.3380	mg/L	10/22/2020	ALS
Magnesium (Mg), dissolved in water	176.0000	mg/L	10/22/2020	ALS
Manganese (Mn), dissolved in water	0.0439	mg/L	10/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.005800	mg/L	10/22/2020	ALS
Nickel (Ni), dissolved in water	0.00116	mg/L	10/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/22/2020	ALS
Potassium (K), dissolved in water	46.7000	mg/L	10/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0214	mg/L	10/22/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	10/22/2020	ALS
Silicon (Si), dissolved in water	5.3700	mg/L	10/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	10/22/2020	ALS
Sodium (Na), dissolved in water	1490.0000	mg/L	10/22/2020	ALS
Strontium (Sr), dissolved in water	4.7800	mg/L	10/22/2020	ALS
Sulfur (S), dissolved in water	297.0000	mg/L	10/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/22/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/22/2020	ALS
Tungsten (W), dissolved in water	0.00115	mg/L	10/22/2020	ALS
Uranium (U), dissolved in water	0.000673	mg/L	10/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/22/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	10/22/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/22/2020	ALS
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Chromium +6

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.007	mg/L	10/22/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/22/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/22/2020	ALS
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Total Coliforms by QT97	115	MPN/100mL	10/22/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.4 ± 15%	mg/L	10/16/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.34	mg/L	10/23/2020	COW_ASB
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Sample No. : 337294
Sample Description : GWQ25-W12
Sample Date : October 14, 2020
Sample Received : October 14, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	139 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	139 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.12 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.008 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2640 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	863 ± 10%	mg/L		11/7/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	141 ± 6.1%	mg/L		10/28/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8360 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.44 ± 0.07 units	units		10/14/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5560 ± 6.2%	mg/L		10/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5220 ± 6.5%	mg/L		10/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	341.0	mg/L		10/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	1.7 ± 13%	mg/L		10/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	1.2 ± 13%	mg/L		10/16/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001607 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.004645 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.013678 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	1.1350 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	311.52 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00142 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.001067 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	0.75633 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	0.000222 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	167.73 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.03307 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.002004 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0213 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	43.828 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00123 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1496.9 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	0.001016 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.00586 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	778	mg/L	11/5/2020	COW_ASB
Total Hardness, calculated in water	1470	mg/L	11/5/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	1.43 ± 4.4%	NTU	10/14/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	175.00	mg/L	10/22/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	143.00	mg/L	10/22/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/22/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/22/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.22	mg/L	10/22/2020	ALS
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Carbons

Dissolved Inorganic Carbon	26.3	mg/L	10/22/2020	ALS
Dissolved Organic Carbon	1.2	mg/L	10/22/2020	ALS
Total Dissolved Carbon by Calculation	27.5	mg/L	10/22/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2530.000	mg/L	10/22/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	898.00	mg/L	10/22/2020	ALS
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/22/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/22/2020	ALS

Total Metals by ICP-MS

Arsenic (As), dissolved in water	0.01300	mg/L	10/22/2020	ALS
Barium (Ba), dissolved in water	0.0128	mg/L	10/22/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/22/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/22/2020	ALS
Boron (B), dissolved in water	0.8120	mg/L	10/22/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	10/22/2020	ALS
Calcium (Ca), dissolved in water	295.0000	mg/L	10/22/2020	ALS
Cesium (Cs), dissolved in water	0.000053	mg/L	10/22/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/22/2020	ALS
Cobalt (Co), dissolved in water	0.00063	mg/L	10/22/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	10/22/2020	ALS
Hardness dissolved in water, calculated	1461.4	mg/L	10/22/2020	ALS
Iron (Fe), dissolved in water	0.6260	mg/L	10/22/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/22/2020	ALS
Lithium (Li), dissolved in water	0.3040	mg/L	10/22/2020	ALS
Magnesium (Mg), dissolved in water	176.0000	mg/L	10/22/2020	ALS
Manganese (Mn), dissolved in water	0.0286	mg/L	10/22/2020	ALS
Molybdenum (Mo), dissolved in water	0.003000	mg/L	10/22/2020	ALS
Nickel (Ni), dissolved in water	0.00135	mg/L	10/22/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/22/2020	ALS
Potassium (K), dissolved in water	42.5000	mg/L	10/22/2020	ALS
Rubidium (Rb), dissolved in water	0.0164	mg/L	10/22/2020	ALS
Selenium (Se), dissolved in water	0.000060	mg/L	10/22/2020	ALS
Silicon (Si), dissolved in water	5.4200	mg/L	10/22/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	10/22/2020	ALS
Sodium (Na), dissolved in water	1390.0000	mg/L	10/22/2020	ALS
Strontium (Sr), dissolved in water	4.5400	mg/L	10/22/2020	ALS
Sulfur (S), dissolved in water	283.0000	mg/L	10/22/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/22/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/22/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/22/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/22/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/22/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/22/2020	ALS
Uranium (U), dissolved in water	0.001350	mg/L	10/22/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/22/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	10/22/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/22/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/22/2020	ALS
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Chromium +6

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/22/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	10/22/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	<1	MPN/100mL	10/22/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	<1	MPN/100mL	10/22/2020	ALS
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Total Coliforms by QT97	1	MPN/100mL	10/22/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.0 ± 15%	mg/L	10/16/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.02	mg/L	10/23/2020	COW_ASB
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Sample No. : 337295
Sample Description : GWQ25-13A
Sample Date : October 13, 2020
Sample Received : October 13, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	436 ± 2.8%	mg/L		10/14/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/14/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/14/2020	COW_ASB
Alkalinity, total to pH 4.5	436 ± 2.8%	mg/L		10/14/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/14/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.437 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.076 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.020 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1550 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1230 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	277 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6750 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.50 ± 0.07 units	units		10/13/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	10500 ± 6.2%	mg/L		10/15/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids	7890 ± 8.4%	mg/L		10/14/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid, calculated	2590	mg/L		10/16/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	9.8 ± 13%	mg/L		10/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	20.3 ± 13%	mg/L		10/16/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		11/7/2020	COW_ASB
Arsenic (As), total in water	0.022363 ± 8.1%	mg/L		11/7/2020	COW_ASB
Barium (Ba), total in water	0.55105 ± 11.8%	mg/L		11/7/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/7/2020	COW_ASB
Boron (B), total in water	0.45253 ± 24.2%	mg/L		11/7/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	11/7/2020	COW_ASB
Calcium (Ca), total in water	891.19 ± 20.9%	mg/L	11/7/2020	COW_ASB
Chromium (Cr), total in water	0.08019 ± 12.8%	mg/L	11/7/2020	COW_ASB
Copper (Cu), total in water	0.066151 ± 12.1%	mg/L	11/7/2020	COW_ASB
Iron (Fe), total in water	61.649 ± 9.7%	mg/L	11/7/2020	COW_ASB
Lead (Pb), total in water	0.043651 ± 8.3%	mg/L	11/7/2020	COW_ASB
Magnesium (Mg), total in water	443.20 ± 10.5%	mg/L	11/7/2020	COW_ASB
Manganese (Mn), total in water	1.8729 ± 11.2%	mg/L	11/7/2020	COW_ASB
Nickel (Ni), total in water	0.091124 ± 12.2%	mg/L	11/7/2020	COW_ASB
Phosphorus (P), total in water	1.7618 ± 4.5%	mg/L	11/7/2020	COW_ASB
Potassium (K), total in water	22.814 ± 18.3%	mg/L	11/7/2020	COW_ASB
Selenium (Se), total in water	0.00449 ± 8.0%	mg/L	11/7/2020	COW_ASB
Sodium (Na), total in water	766.10 ± 9.2%	mg/L	11/7/2020	COW_ASB
Uranium (U), total in water	0.056364 ± 10.0%	mg/L	11/7/2020	COW_ASB
Zinc (Zn), total in water	0.19649 ± 10.7%	mg/L	11/7/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	2230	mg/L	11/9/2020	COW_ASB
Total Hardness, calculated in water	4050	mg/L	11/9/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	193.00 ± 4.4%	NTU	10/13/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/24/2020	ALS
Antimony (Sb), dissolved in water	0.000160	mg/L	10/24/2020	ALS
Arsenic (As), dissolved in water	0.00111	mg/L	10/24/2020	ALS
Barium (Ba), dissolved in water	0.0135	mg/L	10/24/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/24/2020	ALS
Boron (B), dissolved in water	0.4810	mg/L	10/24/2020	ALS
Cadmium (Cd), dissolved in water	0.000021	mg/L	10/24/2020	ALS
Calcium (Ca), dissolved in water	503.0000	mg/L	10/24/2020	ALS
Cesium (Cs), dissolved in water	0.000027	mg/L	10/24/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Cobalt (Co), dissolved in water	0.00240	mg/L	10/24/2020	ALS
Copper (Cu), dissolved in water	0.00148	mg/L	10/24/2020	ALS
Hardness dissolved in water, calculated	2446.1	mg/L	10/24/2020	ALS
Iron (Fe), dissolved in water	0.0100	mg/L	10/24/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/24/2020	ALS
Lithium (Li), dissolved in water	0.4680	mg/L	10/24/2020	ALS
Magnesium (Mg), dissolved in water	289.0000	mg/L	10/24/2020	ALS
Manganese (Mn), dissolved in water	0.3750	mg/L	10/24/2020	ALS
Molybdenum (Mo), dissolved in water	0.002870	mg/L	10/24/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00484	mg/L	10/24/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/24/2020	ALS
Potassium (K), dissolved in water	16.5000	mg/L	10/24/2020	ALS
Rubidium (Rb), dissolved in water	0.0073	mg/L	10/24/2020	ALS
Selenium (Se), dissolved in water	0.000324	mg/L	10/24/2020	ALS
Silicon (Si), dissolved in water	9.9900	mg/L	10/24/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	10/24/2020	ALS
Sodium (Na), dissolved in water	786.0000	mg/L	10/24/2020	ALS
Strontium (Sr), dissolved in water	3.4300	mg/L	10/24/2020	ALS
Sulfur (S), dissolved in water	460.0000	mg/L	10/24/2020	ALS
Tellurium (Te), dissolved in water	0.00025	mg/L	10/24/2020	ALS
Thallium (Tl), dissolved in water	0.000041	mg/L	10/24/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/24/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Uranium (U), dissolved in water	0.053300	mg/L	10/24/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/24/2020	ALS
Zinc (Zn), dissolved in water	0.0019	mg/L	10/24/2020	ALS
Zirconium (Zr), dissolved in water	0.00021	mg/L	10/24/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0003840	mg/L	10/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/24/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	10/24/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.2 ± 15%	mg/L	10/16/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.07	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	458.00	mg/L	10/24/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	375.00	mg/L	10/24/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/24/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.07	mg/L	10/24/2020	ALS
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Carbons

Carbons

Dissolved Inorganic Carbon	82.3	mg/L	10/24/2020	ALS
Dissolved Organic Carbon	9.4	mg/L	10/24/2020	ALS
Total Dissolved Carbon by Calculation	91.7	mg/L	10/24/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1630.000	mg/L	10/24/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	1230.00	mg/L	10/24/2020	ALS
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Sample No. : 337296
Sample Description : GWQ25-14A
Sample Date : October 15, 2020
Sample Received : October 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	927 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	927 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	1.08 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2480 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	833 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	190 ± 6.1%	mg/L		10/28/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	7920 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.47 ± 0.07 units	units		10/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	10900 ± 6.2%	mg/L		10/16/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.3 ± 13%	mg/L		10/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	10.0 ± 13%	mg/L		10/22/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		11/7/2020	COW_ASB
Arsenic (As), total in water	0.012988 ± 8.1%	mg/L		11/7/2020	COW_ASB
Barium (Ba), total in water	0.30026 ± 11.8%	mg/L		11/7/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/7/2020	COW_ASB
Boron (B), total in water	0.77568 ± 24.2%	mg/L		11/7/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		11/7/2020	COW_ASB
Calcium (Ca), total in water	1173.5 ± 20.9%	mg/L		11/7/2020	COW_ASB
Chromium (Cr), total in water	0.06773 ± 12.8%	mg/L		11/7/2020	COW_ASB
Copper (Cu), total in water	0.049860 ± 12.1%	mg/L		11/7/2020	COW_ASB

Metals Total in Water by ICP-MS

Iron (Fe), total in water	49.621 ± 9.7%	mg/L	11/7/2020	COW_ASB
Lead (Pb), total in water	0.028778 ± 8.3%	mg/L	11/7/2020	COW_ASB
Magnesium (Mg), total in water	506.35 ± 10.5%	mg/L	11/7/2020	COW_ASB
Manganese (Mn), total in water	1.8641 ± 11.2%	mg/L	11/7/2020	COW_ASB
Nickel (Ni), total in water	0.067255 ± 12.2%	mg/L	11/7/2020	COW_ASB
Phosphorus (P), total in water	1.9230 ± 4.5%	mg/L	11/7/2020	COW_ASB
Potassium (K), total in water	33.039 ± 18.3%	mg/L	11/7/2020	COW_ASB
Selenium (Se), total in water	0.00103 ± 8.0%	mg/L	11/7/2020	COW_ASB
Sodium (Na), total in water	1160.3 ± 9.2%	mg/L	11/7/2020	COW_ASB
Uranium (U), total in water	0.000707 ± 10.0%	mg/L	11/7/2020	COW_ASB
Zinc (Zn), total in water	0.13278 ± 10.7%	mg/L	11/7/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	2930	mg/L	11/9/2020	COW_ASB
Total Hardness, calculated in water	5020	mg/L	11/9/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	>4800.00 ± 4.4%	NTU	10/15/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0023	mg/L	10/27/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/27/2020	ALS
Arsenic (As), dissolved in water	0.00673	mg/L	10/27/2020	ALS
Barium (Ba), dissolved in water	0.0139	mg/L	10/27/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Boron (B), dissolved in water	0.6870	mg/L	10/27/2020	ALS
Cadmium (Cd), dissolved in water	0.000018	mg/L	10/27/2020	ALS
Calcium (Ca), dissolved in water	375.0000	mg/L	10/27/2020	ALS
Cesium (Cs), dissolved in water	0.000026	mg/L	10/27/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Cobalt (Co), dissolved in water	0.00174	mg/L	10/27/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	10/27/2020	ALS
Hardness dissolved in water, calculated	1685.9	mg/L	10/27/2020	ALS
Iron (Fe), dissolved in water	0.6690	mg/L	10/27/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Lithium (Li), dissolved in water	0.3210	mg/L	10/27/2020	ALS
Magnesium (Mg), dissolved in water	182.0000	mg/L	10/27/2020	ALS
Manganese (Mn), dissolved in water	0.3350	mg/L	10/27/2020	ALS
Molybdenum (Mo), dissolved in water	0.002350	mg/L	10/27/2020	ALS
Nickel (Ni), dissolved in water	0.00204	mg/L	10/27/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/27/2020	ALS
Potassium (K), dissolved in water	31.1000	mg/L	10/27/2020	ALS
Rubidium (Rb), dissolved in water	0.0118	mg/L	10/27/2020	ALS

Total Metals by ICP-MS

Selenium (Se), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Silicon (Si), dissolved in water	6.3600	mg/L	10/27/2020	ALS
Silver (Ag), dissolved in water	0.000018	mg/L	10/27/2020	ALS
Sodium (Na), dissolved in water	1270.0000	mg/L	10/27/2020	ALS
Strontium (Sr), dissolved in water	4.0300	mg/L	10/27/2020	ALS
Sulfur (S), dissolved in water	304.0000	mg/L	10/27/2020	ALS
Tellurium (Te), dissolved in water	0.00026	mg/L	10/27/2020	ALS
Thallium (Tl), dissolved in water	0.000034	mg/L	10/27/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/27/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Uranium (U), dissolved in water	0.003070	mg/L	10/27/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/27/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	10/27/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/27/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0000370	mg/L	10/27/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/27/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	10/27/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.7 ± 15%	mg/L	10/21/2020	COW_ASB
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Total Suspended Solids by Gravimetric Analysis

Total Suspended Solids	6780 ± 8.4%	mg/L	10/16/2020	COW_ASB
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Dissolved Solids by Gravimetric Analysis

Total Dissolved Solid, calculated	4160	mg/L	10/16/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	1.71	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	265.00	mg/L	10/27/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	217.00	mg/L	10/27/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/27/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/27/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.13	mg/L	10/27/2020	ALS
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Carbons

Carbons

Dissolved Inorganic Carbon	32.6	mg/L	10/27/2020	ALS
Dissolved Organic Carbon	3.3	mg/L	10/27/2020	ALS
Total Dissolved Carbon by Calculation	35.9	mg/L	10/27/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2310.000	mg/L	10/27/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	847.00	mg/L	10/27/2020	ALS
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Sample No. : 337297
Sample Description : GWQ25-15A
Sample Date : October 15, 2020
Sample Received : October 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	406 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	406 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.936 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.040 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.023 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1350 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1780 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	1080 ± 6.1%	mg/L		10/28/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6520 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.01 ± 0.07 units	units		10/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	28800 ± 6.2%	mg/L		10/16/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	17.9 ± 13%	mg/L		10/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	98.0 ± 13%	mg/L		10/22/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		11/7/2020	COW_ASB
Arsenic (As), total in water	0.087595 ± 8.1%	mg/L		11/7/2020	COW_ASB
Barium (Ba), total in water	2.1950 ± 11.8%	mg/L		11/7/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/7/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L		11/7/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		11/7/2020	COW_ASB
Calcium (Ca), total in water	2667.7 ± 20.9%	mg/L		11/7/2020	COW_ASB
Chromium (Cr), total in water	0.42879 ± 12.8%	mg/L		11/7/2020	COW_ASB
Copper (Cu), total in water	0.49920 ± 12.1%	mg/L		11/7/2020	COW_ASB

Metals Total in Water by ICP-MS

Iron (Fe), total in water	377.32 ± 9.7%	mg/L	11/7/2020	COW_ASB
Lead (Pb), total in water	0.22192 ± 8.3%	mg/L	11/7/2020	COW_ASB
Magnesium (Mg), total in water	1034.8 ± 10.5%	mg/L	11/7/2020	COW_ASB
Manganese (Mn), total in water	10.535 ± 11.2%	mg/L	11/7/2020	COW_ASB
Nickel (Ni), total in water	0.66873 ± 12.2%	mg/L	11/7/2020	COW_ASB
Phosphorus (P), total in water	11.746 ± 4.5%	mg/L	11/7/2020	COW_ASB
Potassium (K), total in water	55.659 ± 18.3%	mg/L	11/7/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	11/7/2020	COW_ASB
Sodium (Na), total in water	657.82 ± 9.2%	mg/L	11/7/2020	COW_ASB
Uranium (U), total in water	0.006658 ± 10.0%	mg/L	11/7/2020	COW_ASB
Zinc (Zn), total in water	1.3771 ± 10.7%	mg/L	11/7/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	6660	mg/L	11/9/2020	COW_ASB
Total Hardness, calculated in water	10900	mg/L	11/9/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	>4800.00 ± 4.4%	NTU	10/15/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.4150	mg/L	10/27/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/27/2020	ALS
Arsenic (As), dissolved in water	0.00144	mg/L	10/27/2020	ALS
Barium (Ba), dissolved in water	0.0160	mg/L	10/27/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Boron (B), dissolved in water	0.3930	mg/L	10/27/2020	ALS
Cadmium (Cd), dissolved in water	0.000048	mg/L	10/27/2020	ALS
Calcium (Ca), dissolved in water	750.0000	mg/L	10/27/2020	ALS
Cesium (Cs), dissolved in water	0.000073	mg/L	10/27/2020	ALS
Chromium (Cr), dissolved in water	0.00093	mg/L	10/27/2020	ALS
Cobalt (Co), dissolved in water	0.00857	mg/L	10/27/2020	ALS
Copper (Cu), dissolved in water	0.00169	mg/L	10/27/2020	ALS
Hardness dissolved in water, calculated	2951.7	mg/L	10/27/2020	ALS
Iron (Fe), dissolved in water	1.5500	mg/L	10/27/2020	ALS
Lead (Pb), dissolved in water	0.000688	mg/L	10/27/2020	ALS
Lithium (Li), dissolved in water	0.5850	mg/L	10/27/2020	ALS
Magnesium (Mg), dissolved in water	262.0000	mg/L	10/27/2020	ALS
Manganese (Mn), dissolved in water	2.1400	mg/L	10/27/2020	ALS
Molybdenum (Mo), dissolved in water	0.000360	mg/L	10/27/2020	ALS
Nickel (Ni), dissolved in water	0.01030	mg/L	10/27/2020	ALS
Phosphorus (P), dissolved in water	0.058	mg/L	10/27/2020	ALS
Potassium (K), dissolved in water	14.3000	mg/L	10/27/2020	ALS
Rubidium (Rb), dissolved in water	0.0073	mg/L	10/27/2020	ALS

Total Metals by ICP-MS

Selenium (Se), dissolved in water	0.000102	mg/L	10/27/2020	ALS
Silicon (Si), dissolved in water	12.3000	mg/L	10/27/2020	ALS
Silver (Ag), dissolved in water	0.000018	mg/L	10/27/2020	ALS
Sodium (Na), dissolved in water	597.0000	mg/L	10/27/2020	ALS
Strontium (Sr), dissolved in water	4.9600	mg/L	10/27/2020	ALS
Sulfur (S), dissolved in water	591.0000	mg/L	10/27/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/27/2020	ALS
Thallium (Tl), dissolved in water	0.000059	mg/L	10/27/2020	ALS
Thorium (Th), dissolved in water	0.00052	mg/L	10/27/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Titanium (Ti), dissolved in water	0.02060	mg/L	10/27/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Uranium (U), dissolved in water	0.037300	mg/L	10/27/2020	ALS
Vanadium (V), dissolved in water	0.00152	mg/L	10/27/2020	ALS
Zinc (Zn), dissolved in water	0.0057	mg/L	10/27/2020	ALS
Zirconium (Zr), dissolved in water	0.00197	mg/L	10/27/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0003840	mg/L	10/27/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/27/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	10/27/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	4.3 ± 15%	mg/L	10/21/2020	COW_ASB
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Total Suspended Solids by Gravimetric Analysis

Total Suspended Solids	27520 ± 8.4%	mg/L	10/16/2020	COW_ASB
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Dissolved Solids by Gravimetric Analysis

Total Dissolved Solid, calculated	1310	mg/L	10/16/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	4.26	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	376.00	mg/L	10/27/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	308.00	mg/L	10/27/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/27/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/27/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.13	mg/L	10/27/2020	ALS
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Carbons

Carbons

Dissolved Inorganic Carbon	61.2	mg/L	10/27/2020	ALS
Dissolved Organic Carbon	13.8	mg/L	10/27/2020	ALS
Total Dissolved Carbon by Calculation	75.0	mg/L	10/27/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1390.000	mg/L	10/27/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	1800.00	mg/L	10/27/2020	ALS
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Sample No. : 337298
Sample Description : GWQ25-16A
Sample Date : October 15, 2020
Sample Received : October 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	354 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	354 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.483 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.499 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.020 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	990 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1140 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	66.0 ± 6.1%	mg/L		10/28/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	5070 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.40 ± 0.07 units	units		10/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3960 ± 6.2%	mg/L		10/16/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3620 ± 6.5%	mg/L		10/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	333.0	mg/L		10/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	5.3 ± 13%	mg/L		10/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	5.0 ± 13%	mg/L		10/22/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.001366 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.016478 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	0.56220 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	538.73 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00120 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.003325 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	0.91659 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	0.000280 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	189.50 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.81923 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.006559 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0341 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	10.958 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00050 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	467.61 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	0.015422 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.01333 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1350	mg/L	11/5/2020	COW_ASB
Total Hardness, calculated in water	2130	mg/L	11/5/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	22.30 ± 4.4%	NTU	10/15/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/27/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/27/2020	ALS
Arsenic (As), dissolved in water	0.00087	mg/L	10/27/2020	ALS
Barium (Ba), dissolved in water	0.0107	mg/L	10/27/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Boron (B), dissolved in water	0.4620	mg/L	10/27/2020	ALS
Cadmium (Cd), dissolved in water	0.000051	mg/L	10/27/2020	ALS
Calcium (Ca), dissolved in water	480.0000	mg/L	10/27/2020	ALS
Cesium (Cs), dissolved in water	0.000021	mg/L	10/27/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Cobalt (Co), dissolved in water	0.00419	mg/L	10/27/2020	ALS
Copper (Cu), dissolved in water	0.00048	mg/L	10/27/2020	ALS
Hardness dissolved in water, calculated	1997.5	mg/L	10/27/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	10/27/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Lithium (Li), dissolved in water	0.3450	mg/L	10/27/2020	ALS
Magnesium (Mg), dissolved in water	194.0000	mg/L	10/27/2020	ALS
Manganese (Mn), dissolved in water	0.8260	mg/L	10/27/2020	ALS
Molybdenum (Mo), dissolved in water	0.000625	mg/L	10/27/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00523	mg/L	10/27/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/27/2020	ALS
Potassium (K), dissolved in water	10.7000	mg/L	10/27/2020	ALS
Rubidium (Rb), dissolved in water	0.0050	mg/L	10/27/2020	ALS
Selenium (Se), dissolved in water	0.000072	mg/L	10/27/2020	ALS
Silicon (Si), dissolved in water	10.5000	mg/L	10/27/2020	ALS
Silver (Ag), dissolved in water	0.000023	mg/L	10/27/2020	ALS
Sodium (Na), dissolved in water	458.0000	mg/L	10/27/2020	ALS
Strontium (Sr), dissolved in water	3.4700	mg/L	10/27/2020	ALS
Sulfur (S), dissolved in water	395.0000	mg/L	10/27/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/27/2020	ALS
Thallium (Tl), dissolved in water	0.000036	mg/L	10/27/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/27/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Uranium (U), dissolved in water	0.014400	mg/L	10/27/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/27/2020	ALS
Zinc (Zn), dissolved in water	0.0032	mg/L	10/27/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/27/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/27/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/27/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	10/27/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.0 ± 15%	mg/L	10/22/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	0.50	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	345.00	mg/L	10/27/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	283.00	mg/L	10/27/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/27/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/27/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.10	mg/L	10/27/2020	ALS
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Carbons

Carbons

Dissolved Inorganic Carbon	54.6	mg/L	10/27/2020	ALS
Dissolved Organic Carbon	5.8	mg/L	10/27/2020	ALS
Total Dissolved Carbon by Calculation	60.5	mg/L	10/27/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1030.000	mg/L	10/27/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	1160.00	mg/L	10/27/2020	ALS
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Sample No. : 337299
Sample Description : GWQ25-101
Sample Date : October 15, 2020
Sample Received : October 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	549 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	549 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.887 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.035 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.021 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	1340 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1700 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	962 ± 6.1%	mg/L		11/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	6530 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.00 ± 0.07 units	units		10/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	21700 ± 6.2%	mg/L		10/16/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	14.3 ± 13%	mg/L		10/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	46.3 ± 13%	mg/L		10/22/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		11/7/2020	COW_ASB
Arsenic (As), total in water	0.073014 ± 8.1%	mg/L		11/7/2020	COW_ASB
Barium (Ba), total in water	1.4092 ± 11.8%	mg/L		11/7/2020	COW_ASB
Beryllium (Be), total in water	0.00255 ± 16.8%	mg/L		11/7/2020	COW_ASB
Boron (B), total in water	0.37249 ± 24.2%	mg/L		11/7/2020	COW_ASB
Cadmium (Cd), total in water	0.000503 ± 10.4%	mg/L		11/7/2020	COW_ASB
Calcium (Ca), total in water	1906.1 ± 20.9%	mg/L		11/7/2020	COW_ASB
Chromium (Cr), total in water	0.24521 ± 12.8%	mg/L		11/7/2020	COW_ASB
Copper (Cu), total in water	0.26364 ± 12.1%	mg/L		11/7/2020	COW_ASB

Metals Total in Water by ICP-MS

Iron (Fe), total in water	203.89 ± 9.7%	mg/L	11/7/2020	COW_ASB
Lead (Pb), total in water	0.12703 ± 8.3%	mg/L	11/7/2020	COW_ASB
Magnesium (Mg), total in water	774.80 ± 10.5%	mg/L	11/7/2020	COW_ASB
Manganese (Mn), total in water	6.2417 ± 11.2%	mg/L	11/7/2020	COW_ASB
Nickel (Ni), total in water	0.35737 ± 12.2%	mg/L	11/7/2020	COW_ASB
Phosphorus (P), total in water	7.5748 ± 4.5%	mg/L	11/7/2020	COW_ASB
Potassium (K), total in water	35.101 ± 18.3%	mg/L	11/7/2020	COW_ASB
Selenium (Se), total in water	0.02230 ± 8.0%	mg/L	11/7/2020	COW_ASB
Sodium (Na), total in water	589.27 ± 9.2%	mg/L	11/7/2020	COW_ASB
Uranium (U), total in water	0.044991 ± 10.0%	mg/L	11/7/2020	COW_ASB
Zinc (Zn), total in water	0.70382 ± 10.7%	mg/L	11/7/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	4760	mg/L	11/9/2020	COW_ASB
Total Hardness, calculated in water	7950	mg/L	11/9/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	>4800.00 ± 4.4%	NTU	10/15/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0073	mg/L	10/27/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/27/2020	ALS
Arsenic (As), dissolved in water	0.00095	mg/L	10/27/2020	ALS
Barium (Ba), dissolved in water	0.0126	mg/L	10/27/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Boron (B), dissolved in water	0.4080	mg/L	10/27/2020	ALS
Cadmium (Cd), dissolved in water	0.000031	mg/L	10/27/2020	ALS
Calcium (Ca), dissolved in water	741.0000	mg/L	10/27/2020	ALS
Cesium (Cs), dissolved in water	0.000019	mg/L	10/27/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Cobalt (Co), dissolved in water	0.00769	mg/L	10/27/2020	ALS
Copper (Cu), dissolved in water	0.00031	mg/L	10/27/2020	ALS
Hardness dissolved in water, calculated	2937.4	mg/L	10/27/2020	ALS
Iron (Fe), dissolved in water	0.7010	mg/L	10/27/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Lithium (Li), dissolved in water	0.5720	mg/L	10/27/2020	ALS
Magnesium (Mg), dissolved in water	264.0000	mg/L	10/27/2020	ALS
Manganese (Mn), dissolved in water	1.9100	mg/L	10/27/2020	ALS
Molybdenum (Mo), dissolved in water	0.000439	mg/L	10/27/2020	ALS
Nickel (Ni), dissolved in water	0.00873	mg/L	10/27/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/27/2020	ALS
Potassium (K), dissolved in water	13.3000	mg/L	10/27/2020	ALS
Rubidium (Rb), dissolved in water	0.0060	mg/L	10/27/2020	ALS

Total Metals by ICP-MS

Selenium (Se), dissolved in water	0.000102	mg/L	10/27/2020	ALS
Silicon (Si), dissolved in water	11.3000	mg/L	10/27/2020	ALS
Silver (Ag), dissolved in water	0.000028	mg/L	10/27/2020	ALS
Sodium (Na), dissolved in water	606.0000	mg/L	10/27/2020	ALS
Strontium (Sr), dissolved in water	4.7000	mg/L	10/27/2020	ALS
Sulfur (S), dissolved in water	629.0000	mg/L	10/27/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/27/2020	ALS
Thallium (Tl), dissolved in water	0.000048	mg/L	10/27/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Titanium (Ti), dissolved in water	0.00036	mg/L	10/27/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Uranium (U), dissolved in water	0.035600	mg/L	10/27/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/27/2020	ALS
Zinc (Zn), dissolved in water	0.0036	mg/L	10/27/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/27/2020	ALS

Mercury in Water

Mercury (Hg) total in water	0.0003220	mg/L	10/27/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/27/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.001	mg/L	10/27/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	3.2 ± 15%	mg/L	10/21/2020	COW_ASB
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Total Suspended Solids by Gravimetric Analysis

Total Suspended Solids	20360 ± 8.4%	mg/L	10/16/2020	COW_ASB
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Dissolved Solids by Gravimetric Analysis

Total Dissolved Solid, calculated	1340	mg/L	10/16/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	3.21	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	519.00	mg/L	10/27/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	426.00	mg/L	10/27/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/27/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/27/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.17	mg/L	10/27/2020	ALS
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Carbons

Carbons

Dissolved Inorganic Carbon	61.0	mg/L	10/27/2020	ALS
Dissolved Organic Carbon	13.2	mg/L	10/27/2020	ALS
Total Dissolved Carbon by Calculation	74.2	mg/L	10/27/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	1390.000	mg/L	10/27/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	1810.00	mg/L	10/27/2020	ALS
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Sample No. : 337300
Sample Description : GWQ25-6N60E
Sample Date : October 15, 2020
Sample Received : October 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	557 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	557 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.209 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.538 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.021 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	470 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1400 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	50.0 ± 6.1%	mg/L		10/28/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4020 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.96 ± 0.07 units	units		10/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3800 ± 6.2%	mg/L		10/16/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3240 ± 6.5%	mg/L		10/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	560.0	mg/L		10/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	8.6 ± 13%	mg/L		10/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	8.6 ± 13%	mg/L		10/22/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001139 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.001766 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.033239 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	0.40879 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	510.74 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00753 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.006288 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	3.3133 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	0.002151 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	195.55 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	1.3057 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.012952 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.1530 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	9.334 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00086 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	373.19 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	0.049392 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.01985 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1280	mg/L	11/5/2020	COW_ASB
Total Hardness, calculated in water	2080	mg/L	11/5/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	178.00 ± 4.4%	NTU	10/15/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/27/2020	ALS
Antimony (Sb), dissolved in water	0.000180	mg/L	10/27/2020	ALS
Arsenic (As), dissolved in water	0.00080	mg/L	10/27/2020	ALS
Barium (Ba), dissolved in water	0.0076	mg/L	10/27/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Boron (B), dissolved in water	0.3530	mg/L	10/27/2020	ALS
Cadmium (Cd), dissolved in water	0.000031	mg/L	10/27/2020	ALS
Calcium (Ca), dissolved in water	439.0000	mg/L	10/27/2020	ALS
Cesium (Cs), dissolved in water	0.000023	mg/L	10/27/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Cobalt (Co), dissolved in water	0.00432	mg/L	10/27/2020	ALS
Copper (Cu), dissolved in water	0.00142	mg/L	10/27/2020	ALS
Hardness dissolved in water, calculated	1899.2	mg/L	10/27/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	10/27/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Lithium (Li), dissolved in water	0.4840	mg/L	10/27/2020	ALS
Magnesium (Mg), dissolved in water	195.0000	mg/L	10/27/2020	ALS
Manganese (Mn), dissolved in water	1.2900	mg/L	10/27/2020	ALS
Molybdenum (Mo), dissolved in water	0.003160	mg/L	10/27/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00802	mg/L	10/27/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/27/2020	ALS
Potassium (K), dissolved in water	8.9900	mg/L	10/27/2020	ALS
Rubidium (Rb), dissolved in water	0.0042	mg/L	10/27/2020	ALS
Selenium (Se), dissolved in water	0.000073	mg/L	10/27/2020	ALS
Silicon (Si), dissolved in water	10.3000	mg/L	10/27/2020	ALS
Silver (Ag), dissolved in water	0.000020	mg/L	10/27/2020	ALS
Sodium (Na), dissolved in water	363.0000	mg/L	10/27/2020	ALS
Strontium (Sr), dissolved in water	2.8400	mg/L	10/27/2020	ALS
Sulfur (S), dissolved in water	507.0000	mg/L	10/27/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/27/2020	ALS
Thallium (Tl), dissolved in water	0.000028	mg/L	10/27/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/27/2020	ALS
Tungsten (W), dissolved in water	0.00013	mg/L	10/27/2020	ALS
Uranium (U), dissolved in water	0.046400	mg/L	10/27/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/27/2020	ALS
Zinc (Zn), dissolved in water	0.0031	mg/L	10/27/2020	ALS
Zirconium (Zr), dissolved in water	0.00036	mg/L	10/27/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/27/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/27/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.015	mg/L	10/27/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	0.9 ± 15%	mg/L	10/21/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	0.37	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	550.00	mg/L	10/27/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	451.00	mg/L	10/27/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/27/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/27/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.39	mg/L	10/27/2020	ALS
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Carbons

Carbons

Dissolved Inorganic Carbon	77.9	mg/L	10/27/2020	ALS
Dissolved Organic Carbon	7.2	mg/L	10/27/2020	ALS
Total Dissolved Carbon by Calculation	85.1	mg/L	10/27/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	400.000	mg/L	10/27/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	1470.00	mg/L	10/27/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	10/27/2020	ALS
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Sample No. : 337301
Sample Description : GWQ25-5N62E
Sample Date : October 13, 2020
Sample Received : October 13, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	191 ± 2.8%	mg/L		10/14/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/14/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/14/2020	COW_ASB
Alkalinity, total to pH 4.5	191 ± 2.8%	mg/L		10/14/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/14/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.982 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.078 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	2380 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	863 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	228 ± 6.1%	mg/L		10/27/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	8120 ± 7.2%	uS		10/14/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.24 ± 0.07 units	units		10/13/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	5920 ± 6.2%	mg/L		10/15/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5090 ± 6.5%	mg/L		10/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	829.0	mg/L		10/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	2.4 ± 13%	mg/L		10/16/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	2.4 ± 13%	mg/L		10/16/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.006087 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.032976 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	0.98990 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	462.71 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00558 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.039250 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	4.1997 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	0.002812 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	199.24 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.18463 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.005335 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.1945 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	36.329 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00148 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	1364.5 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	0.003165 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.01427 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1160	mg/L	11/5/2020	COW_ASB
Total Hardness, calculated in water	1980	mg/L	11/5/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	2692.00 ± 4.4%	NTU	10/13/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/24/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/24/2020	ALS
Arsenic (As), dissolved in water	0.00180	mg/L	10/24/2020	ALS
Barium (Ba), dissolved in water	0.0127	mg/L	10/24/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/24/2020	ALS
Boron (B), dissolved in water	0.7020	mg/L	10/24/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	10/24/2020	ALS
Calcium (Ca), dissolved in water	372.0000	mg/L	10/24/2020	ALS
Cesium (Cs), dissolved in water	0.000019	mg/L	10/24/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Cobalt (Co), dissolved in water	0.00064	mg/L	10/24/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	10/24/2020	ALS
Hardness dissolved in water, calculated	1612.5	mg/L	10/24/2020	ALS
Iron (Fe), dissolved in water	0.1030	mg/L	10/24/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/24/2020	ALS
Lithium (Li), dissolved in water	0.3360	mg/L	10/24/2020	ALS
Magnesium (Mg), dissolved in water	166.0000	mg/L	10/24/2020	ALS
Manganese (Mn), dissolved in water	0.0735	mg/L	10/24/2020	ALS
Molybdenum (Mo), dissolved in water	0.002570	mg/L	10/24/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00140	mg/L	10/24/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/24/2020	ALS
Potassium (K), dissolved in water	35.2000	mg/L	10/24/2020	ALS
Rubidium (Rb), dissolved in water	0.0128	mg/L	10/24/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	10/24/2020	ALS
Silicon (Si), dissolved in water	5.6300	mg/L	10/24/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	10/24/2020	ALS
Sodium (Na), dissolved in water	1270.0000	mg/L	10/24/2020	ALS
Strontium (Sr), dissolved in water	3.4300	mg/L	10/24/2020	ALS
Sulfur (S), dissolved in water	311.0000	mg/L	10/24/2020	ALS
Tellurium (Te), dissolved in water	0.00035	mg/L	10/24/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/24/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/24/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/24/2020	ALS
Uranium (U), dissolved in water	0.003930	mg/L	10/24/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/24/2020	ALS
Zinc (Zn), dissolved in water	0.0027	mg/L	10/24/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/24/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/24/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/24/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	10/24/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	1.0 ± 15%	mg/L	10/16/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	0.92	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	231.00	mg/L	10/24/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	190.00	mg/L	10/24/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/24/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/24/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	1.38	mg/L	10/24/2020	ALS
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Carbons

Carbons

Dissolved Inorganic Carbon	33.3	mg/L	10/24/2020	ALS
Dissolved Organic Carbon	3.5	mg/L	10/24/2020	ALS
Total Dissolved Carbon by Calculation	36.9	mg/L	10/24/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	2350.000	mg/L	10/24/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	828.00	mg/L	10/24/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	10/24/2020	ALS
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Sample No. : 337302
Sample Description : GWQ25-102
Sample Date : October 15, 2020
Sample Received : October 15, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	522 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, total to pH 4.5	522 ± 2.8%	mg/L		10/16/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/16/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.197 ± 16.9%	mg/L		10/23/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.533 ± 7.8%	mg/L		10/23/2020	COW_ASB
Phosphorus, dissolved (0.45um)	0.020 ± 7.5%	mg/L		10/23/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	380 ± 6%	mg/L		10/18/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	1410 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	49.0 ± 6.1%	mg/L		10/28/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	4030 ± 7.2%	uS		10/16/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	6.93 ± 0.07 units	units		10/16/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	3700 ± 6.2%	mg/L		10/16/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	3260 ± 6.5%	mg/L		10/17/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	442.0	mg/L		10/19/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	8.2 ± 13%	mg/L		10/21/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	8.6 ± 13%	mg/L		10/22/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	0.001767 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.025715 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	0.41276 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	515.71 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00402 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.024666 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	2.4491 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	0.001496 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	196.30 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	1.2719 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.013010 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.1489 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	9.263 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	0.00041 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	356.29 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	0.048881 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.01108 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	1290	mg/L	11/5/2020	COW_ASB
Total Hardness, calculated in water	2100	mg/L	11/5/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	133.00 ± 4.4%	NTU	10/15/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	0.0012	mg/L	10/27/2020	ALS
Antimony (Sb), dissolved in water	0.000170	mg/L	10/27/2020	ALS
Arsenic (As), dissolved in water	0.00076	mg/L	10/27/2020	ALS
Barium (Ba), dissolved in water	0.0077	mg/L	10/27/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Boron (B), dissolved in water	0.3490	mg/L	10/27/2020	ALS
Cadmium (Cd), dissolved in water	0.000031	mg/L	10/27/2020	ALS
Calcium (Ca), dissolved in water	426.0000	mg/L	10/27/2020	ALS
Cesium (Cs), dissolved in water	0.000022	mg/L	10/27/2020	ALS
Chromium (Cr), dissolved in water	0.00016	mg/L	10/27/2020	ALS
Cobalt (Co), dissolved in water	0.00438	mg/L	10/27/2020	ALS
Copper (Cu), dissolved in water	0.00163	mg/L	10/27/2020	ALS
Hardness dissolved in water, calculated	1875.0	mg/L	10/27/2020	ALS
Iron (Fe), dissolved in water	0.0170	mg/L	10/27/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/27/2020	ALS
Lithium (Li), dissolved in water	0.4840	mg/L	10/27/2020	ALS
Magnesium (Mg), dissolved in water	197.0000	mg/L	10/27/2020	ALS
Manganese (Mn), dissolved in water	1.2900	mg/L	10/27/2020	ALS
Molybdenum (Mo), dissolved in water	0.003230	mg/L	10/27/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	0.00822	mg/L	10/27/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/27/2020	ALS
Potassium (K), dissolved in water	8.9000	mg/L	10/27/2020	ALS
Rubidium (Rb), dissolved in water	0.0043	mg/L	10/27/2020	ALS
Selenium (Se), dissolved in water	0.000101	mg/L	10/27/2020	ALS
Silicon (Si), dissolved in water	10.4000	mg/L	10/27/2020	ALS
Silver (Ag), dissolved in water	0.000020	mg/L	10/27/2020	ALS
Sodium (Na), dissolved in water	364.0000	mg/L	10/27/2020	ALS
Strontium (Sr), dissolved in water	2.8700	mg/L	10/27/2020	ALS
Sulfur (S), dissolved in water	500.0000	mg/L	10/27/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/27/2020	ALS
Thallium (Tl), dissolved in water	0.000028	mg/L	10/27/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/27/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/27/2020	ALS
Tungsten (W), dissolved in water	0.00013	mg/L	10/27/2020	ALS
Uranium (U), dissolved in water	0.047000	mg/L	10/27/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/27/2020	ALS
Zinc (Zn), dissolved in water	0.0030	mg/L	10/27/2020	ALS
Zirconium (Zr), dissolved in water	0.00038	mg/L	10/27/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/27/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/27/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.002	mg/L	10/27/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	0.9 ± 15%	mg/L	10/21/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	0.35	mg/L	10/23/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	556.00	mg/L	10/27/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	456.00	mg/L	10/27/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/27/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/27/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.40	mg/L	10/27/2020	ALS
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Carbons

Carbons

Dissolved Inorganic Carbon	77.4	mg/L	10/27/2020	ALS
Dissolved Organic Carbon	7.5	mg/L	10/27/2020	ALS
Total Dissolved Carbon by Calculation	84.9	mg/L	10/27/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	410.000	mg/L	10/27/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	1470.00	mg/L	10/27/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	10/27/2020	ALS
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Sample No. : 337303
Sample Description : GWQ25-Trip Blank
Sample Date : October 20, 2020
Sample Received : October 20, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, total to pH 4.5	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.024 ± 16.9%	mg/L		10/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/26/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		10/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		11/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2.2 ± 7.2%	uS		10/23/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	5.96 ± 0.07 units	units		10/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	20 ± 6.2%	mg/L		10/22/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	22 ± 6.5%	mg/L		10/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	<3.0	mg/L		10/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	<0.6 ± 13%	mg/L		10/23/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.6 ± 13%	mg/L		10/23/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.000473 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	0.060 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00030 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.001991 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	0.01102 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	0.019 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.00062 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.003711 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	0.0029 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	0.033 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	0.644 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.00519 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	<0.4	mg/L	11/3/2020	COW_ASB
Total Hardness, calculated in water	<0.4	mg/L	11/3/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.30 ± 4.4%	NTU	10/20/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	10/30/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	10/30/2020	ALS
Arsenic (As), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Barium (Ba), dissolved in water	<0.0001	mg/L	10/30/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	10/30/2020	ALS
Boron (B), dissolved in water	<0.0100	mg/L	10/30/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	10/30/2020	ALS
Calcium (Ca), dissolved in water	<0.0500	mg/L	10/30/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	10/30/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Cobalt (Co), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Copper (Cu), dissolved in water	<0.00020	mg/L	10/30/2020	ALS
Hardness dissolved in water, calculated	<0.1	mg/L	10/30/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	10/30/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	10/30/2020	ALS
Lithium (Li), dissolved in water	<0.0010	mg/L	10/30/2020	ALS
Magnesium (Mg), dissolved in water	<0.0050	mg/L	10/30/2020	ALS
Manganese (Mn), dissolved in water	<0.0001	mg/L	10/30/2020	ALS
Molybdenum (Mo), dissolved in water	<0.000050	mg/L	10/30/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	<0.00050	mg/L	10/30/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	10/30/2020	ALS
Potassium (K), dissolved in water	<0.0500	mg/L	10/30/2020	ALS
Rubidium (Rb), dissolved in water	<0.0002	mg/L	10/30/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	10/30/2020	ALS
Silicon (Si), dissolved in water	<0.0500	mg/L	10/30/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	10/30/2020	ALS
Sodium (Na), dissolved in water	<0.0500	mg/L	10/30/2020	ALS
Strontium (Sr), dissolved in water	<0.0001	mg/L	10/30/2020	ALS
Sulfur (S), dissolved in water	<0.5000	mg/L	10/30/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	10/30/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	10/30/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Tin (Sn), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	10/30/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	10/30/2020	ALS
Uranium (U), dissolved in water	<0.000010	mg/L	10/30/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	10/30/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	10/30/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	10/30/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	10/30/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	10/30/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.009	mg/L	10/30/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/23/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/27/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	5.00	mg/L	10/30/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	4.10	mg/L	10/30/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	10/30/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	10/30/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.25	mg/L	10/30/2020	ALS
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Carbons

Carbons

Dissolved Inorganic Carbon	<0.5	mg/L	10/30/2020	ALS
Dissolved Organic Carbon	<0.5	mg/L	10/30/2020	ALS
Total Dissolved Carbon by Calculation	<1.0	mg/L	10/30/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	<0.500	mg/L	10/30/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<0.30	mg/L	10/30/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	10/30/2020	ALS
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Sample No. : 337304
Sample Description : GWQ25-Field Blank
Sample Date : October 20, 2020
Sample Received : October 20, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	3.3 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, carbonate, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, hydroxide, calculated	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, total to pH 4.5	3.3 ± 2.8%	mg/L		10/21/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		10/21/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.022 ± 16.9%	mg/L		10/26/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		10/26/2020	COW_ASB
Phosphorus, dissolved (0.45um)	<0.013 ± 7.5%	mg/L		10/26/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	<0.4 ± 6%	mg/L		10/31/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	<0.4 ± 10%	mg/L		10/25/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	<20.0 ± 6.1%	mg/L		11/4/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2.7 ± 7.2%	uS		10/23/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	5.87 ± 0.07 units	units		10/20/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	8 ± 6.2%	mg/L		10/22/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	5 ± 6.5%	mg/L		10/22/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	3.0	mg/L		10/22/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	<0.6 ± 13%	mg/L		10/23/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	0.2 ± 13%	mg/L		10/23/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		10/31/2020	COW_ASB
Arsenic (As), total in water	<0.000017 ± 8.1%	mg/L		10/31/2020	COW_ASB
Barium (Ba), total in water	0.000120 ± 11.8%	mg/L		10/31/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		10/31/2020	COW_ASB
Boron (B), total in water	<0.00208 ± 24.2%	mg/L		10/31/2020	COW_ASB

Metals Total in Water by ICP-MS

Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L	10/31/2020	COW_ASB
Calcium (Ca), total in water	0.041 ± 20.9%	mg/L	10/31/2020	COW_ASB
Chromium (Cr), total in water	0.00053 ± 12.8%	mg/L	10/31/2020	COW_ASB
Copper (Cu), total in water	0.001157 ± 12.1%	mg/L	10/31/2020	COW_ASB
Iron (Fe), total in water	0.00798 ± 9.7%	mg/L	10/31/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	10/31/2020	COW_ASB
Magnesium (Mg), total in water	0.012 ± 10.5%	mg/L	10/31/2020	COW_ASB
Manganese (Mn), total in water	0.00019 ± 11.2%	mg/L	10/31/2020	COW_ASB
Nickel (Ni), total in water	0.000050 ± 12.2%	mg/L	10/31/2020	COW_ASB
Phosphorus (P), total in water	<0.0012 ± 4.5%	mg/L	10/31/2020	COW_ASB
Potassium (K), total in water	0.027 ± 18.3%	mg/L	10/31/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	10/31/2020	COW_ASB
Sodium (Na), total in water	0.415 ± 9.2%	mg/L	10/31/2020	COW_ASB
Uranium (U), total in water	<0.000032 ± 10.0%	mg/L	10/31/2020	COW_ASB
Zinc (Zn), total in water	0.00459 ± 10.7%	mg/L	10/31/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	<0.4	mg/L	11/3/2020	COW_ASB
Total Hardness, calculated in water	<0.4	mg/L	11/3/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	0.14 ± 4.4%	NTU	10/20/2020	COW_ASB
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Total Metals by ICP-MS

Aluminum (Al), dissolved in water	<0.0010	mg/L	11/3/2020	ALS
Antimony (Sb), dissolved in water	<0.000100	mg/L	11/3/2020	ALS
Arsenic (As), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Barium (Ba), dissolved in water	<0.0001	mg/L	11/3/2020	ALS
Beryllium (Be), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Bismuth (Bi), dissolved in water	<0.000050	mg/L	11/3/2020	ALS
Boron (B), dissolved in water	<0.0100	mg/L	11/3/2020	ALS
Cadmium (Cd), dissolved in water	<0.000005	mg/L	11/3/2020	ALS
Calcium (Ca), dissolved in water	<0.0500	mg/L	11/3/2020	ALS
Cesium (Cs), dissolved in water	<0.000010	mg/L	11/3/2020	ALS
Chromium (Cr), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Cobalt (Co), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Copper (Cu), dissolved in water	0.00040	mg/L	11/3/2020	ALS
Hardness dissolved in water, calculated	<0.1	mg/L	11/3/2020	ALS
Iron (Fe), dissolved in water	<0.0100	mg/L	11/3/2020	ALS
Lead (Pb), dissolved in water	<0.000050	mg/L	11/3/2020	ALS
Lithium (Li), dissolved in water	<0.0010	mg/L	11/3/2020	ALS
Magnesium (Mg), dissolved in water	<0.0050	mg/L	11/3/2020	ALS
Manganese (Mn), dissolved in water	<0.0001	mg/L	11/3/2020	ALS
Molybdenum (Mo), dissolved in water	<0.000050	mg/L	11/3/2020	ALS

Total Metals by ICP-MS

Nickel (Ni), dissolved in water	<0.00050	mg/L	11/3/2020	ALS
Phosphorus (P), dissolved in water	<0.030	mg/L	11/3/2020	ALS
Potassium (K), dissolved in water	<0.0500	mg/L	11/3/2020	ALS
Rubidium (Rb), dissolved in water	<0.0002	mg/L	11/3/2020	ALS
Selenium (Se), dissolved in water	<0.000050	mg/L	11/3/2020	ALS
Silicon (Si), dissolved in water	0.2060	mg/L	11/3/2020	ALS
Silver (Ag), dissolved in water	<0.000010	mg/L	11/3/2020	ALS
Sodium (Na), dissolved in water	<0.0500	mg/L	11/3/2020	ALS
Strontium (Sr), dissolved in water	<0.0001	mg/L	11/3/2020	ALS
Sulfur (S), dissolved in water	<0.5000	mg/L	11/3/2020	ALS
Tellurium (Te), dissolved in water	<0.00020	mg/L	11/3/2020	ALS
Thallium (Tl), dissolved in water	<0.000010	mg/L	11/3/2020	ALS
Thorium (Th), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Tin (Sn), dissolved in water	0.00151	mg/L	11/3/2020	ALS
Titanium (Ti), dissolved in water	<0.00030	mg/L	11/3/2020	ALS
Tungsten (W), dissolved in water	<0.00010	mg/L	11/3/2020	ALS
Uranium (U), dissolved in water	<0.000010	mg/L	11/3/2020	ALS
Vanadium (V), dissolved in water	<0.00050	mg/L	11/3/2020	ALS
Zinc (Zn), dissolved in water	<0.0010	mg/L	11/3/2020	ALS
Zirconium (Zr), dissolved in water	<0.00020	mg/L	11/3/2020	ALS

Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	11/3/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/3/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.026	mg/L	11/3/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	10/23/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	10/27/2020	COW_ASB
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Alkalinity, Bicarbonate

Alkalinity, bicarbonate	<1.20	mg/L	11/3/2020	ALS
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Total Alkalinity as CaCO3

Alkalinity, total (as CaCO3)	<1.00	mg/L	11/3/2020	ALS
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Alkalinity, Carbonate

Alkalinity, carbonate	<0.60	mg/L	11/3/2020	ALS
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Alkalinity, Hydroxide

Alkalinity, hydroxide	<0.34	mg/L	11/3/2020	ALS
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Ammonia by colour

Ammonia, total (as N) in water	0.02	mg/L	11/3/2020	ALS
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Carbons

Carbons

Dissolved Inorganic Carbon	<0.5	mg/L	11/3/2020	ALS
Dissolved Organic Carbon	<0.5	mg/L	11/3/2020	ALS
Total Dissolved Carbon by Calculation	<1.0	mg/L	11/3/2020	ALS

Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	<0.500	mg/L	11/3/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	<0.30	mg/L	11/3/2020	ALS
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Cyanide

Cyanide, Total in water	<0.0010	mg/L	11/3/2020	ALS
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Reference Information

The Analytical Services Branch is accredited by CALA in accordance with ISO 17025 standards for specific tests.

Accredited Test Methods Used :

Test Method

Alkalinity by Titration
 Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis
 COD by Closed Reflux Method
 Conductivity by Electrometric Method
 Dissolved Organic Carbon by High Temperature Combustion
 Dissolved Solids by Gravimetric Analysis
 Hardness, Calcium & Total by Calculation
 Metals Total in Water by ICP-MS
 pH in Laboratory by Electrometric Method
 Total Kjeldahl Nitrogen Calculated

 Total Nitrogen by High Temperature Combustion
 Total Organic Carbon by High Temperature Combustion
 Total Solids by Gravimetric Analysis
 Total Suspended Solids by Gravimetric Analysis
 Turbidity in Laboratory by Nephelometric Method

Reference Method

Modified from SM 2320 B. Titration Method
 Modified from SM 4500-NH3 H. NO3 I & P G. Flow Injection Analysis
 Modified from SM 5220 D. Closed Reflux, Colorimetric Method
 Modified from SM 2510 B. Laboratory Measurement
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 C. Total Dissolved Solids Dried at 180°C
 Calculated from EPA Methods 200.8
 Modified from EPA Methods 200.8
 Modified from SM 4500 H+B (Electrometric Method)
 Calculated from SM 5310 B. High Temperature Combustion and SM 4500-NO3 I. Flow Injection Analysis
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 B. Total Solids Dried at 103-105°C
 Modified from SM 2540 D. Total Suspended Solids Dried at 103-105°C
 Modified from SM 2130 A. Turbidity & 2130 B. Nephelometric Method

Additional Test Methods Used :

Test Method

Chloride by Mercuric Thiocyanate Method
 Sulfate by HACH Method

Reference Method

Modified from SM 4500Cl-G Mercuric Thiocyanate & HACH Method 8113
 Modified from HACH Method 8051, SulfaVer 4, & SM 4500-SO4-2 E. Turbidimetric

Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4
 COW_ASB : City of Winnipeg Main Laboratory at NEWPCC, 2230 Main Street, Winnipeg, MB R2V 4T8

Additional Comments :

- 1) A quality control report can be provided upon request. These reports may contain quality control results from other samples not included in this test report.
- 2) Analytical Services Branch test methods may incorporate modifications from specified reference methods to improve performance.
- 3) For subcontracted testing, the certificate of analysis can be provided upon request.
- 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

----- **END OF REPORT** -----

Report To :

Mr. Chris KozakSolid Waste Services Division
1120 Waverley Street
Winnipeg MB R3E 3S8

Report Date : December 10, 2020

Phone : 204-986-2384

Email : ckozak@winnipeg.ca

Certificate of Analysis Job No. 590

Date Authorised : December 10, 2020

Total Number of Pages : 35

This report is issued under the authority of :

Brock Bradford

Analytical Services Branch Head

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The results relate only to the sample(s) as received by the laboratory.

Additional information regarding the test methods used by Analytical Services Branch or contract laboratory is available upon request.

Sample No. : 337328
Sample Description : SWQ36-1
Sample Date : November 3, 2020
Sample Received : November 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	300 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, total to pH 4.5	306 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		11/6/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.334 ± 16.9%	mg/L		11/8/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.019 ± 7.8%	mg/L		11/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	168 ± 6%	mg/L		11/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	172 ± 10%	mg/L		11/7/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	15 ± 15%	mg/L		11/9/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	473 ± 6.1%	mg/L		11/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1320 ± 7.2%	uS		11/4/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.75 ± 0.07 units	units		11/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	808 ± 6.5%	mg/L		11/5/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	762.0	mg/L		11/5/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1570 ± 6.2%	mg/L		11/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	19.9 ± 13%	mg/L		11/5/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	38.0 ± 13%	mg/L		11/5/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000350 ± 9.2%	mg/L		11/16/2020	COW_ASB
Arsenic (As), total in water	0.007051 ± 8.1%	mg/L		11/16/2020	COW_ASB
Barium (Ba), total in water	0.22745 ± 11.8%	mg/L		11/16/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/16/2020	COW_ASB
Boron (B), total in water	0.33435 ± 24.2%	mg/L		11/16/2020	COW_ASB
Cadmium (Cd), total in water	0.000091 ± 10.4%	mg/L		11/16/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	97.359 ± 20.9%	mg/L	11/16/2020	COW_ASB
Chromium (Cr), total in water	0.00768 ± 12.8%	mg/L	11/16/2020	COW_ASB
Copper (Cu), total in water	0.018383 ± 12.1%	mg/L	11/16/2020	COW_ASB
Iron (Fe), total in water	4.4661 ± 9.7%	mg/L	11/16/2020	COW_ASB
Lead (Pb), total in water	0.008207 ± 8.3%	mg/L	11/16/2020	COW_ASB
Magnesium (Mg), total in water	88.935 ± 10.5%	mg/L	11/16/2020	COW_ASB
Manganese (Mn), total in water	1.0309 ± 11.2%	mg/L	11/16/2020	COW_ASB
Nickel (Ni), total in water	0.012978 ± 12.2%	mg/L	11/16/2020	COW_ASB
Phosphorus (P), total in water	1.4821 ± 4.5%	mg/L	11/16/2020	COW_ASB
Potassium (K), total in water	16.222 ± 18.3%	mg/L	11/16/2020	COW_ASB
Selenium (Se), total in water	0.00114 ± 8.0%	mg/L	11/16/2020	COW_ASB
Sodium (Na), total in water	64.372 ± 9.2%	mg/L	11/16/2020	COW_ASB
Uranium (U), total in water	0.004604 ± 10.0%	mg/L	11/16/2020	COW_ASB
Zinc (Zn), total in water	0.11356 ± 10.7%	mg/L	11/16/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	243	mg/L	11/17/2020	COW_ASB
Total Hardness, calculated in water	609	mg/L	11/17/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	143.00 ± 4.4%	NTU	11/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	194.000	mg/L	11/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	159.00	mg/L	11/17/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	11/17/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	11/17/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	104.200	%	11/17/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	11/17/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	11/17/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	11/17/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/17/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	0.0000052	mg/L	11/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.015	mg/L	11/17/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	11/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	11/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	72	MPN/100mL	11/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	121	MPN/100mL	11/17/2020	ALS
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Total Coliforms by QT97	>2420	MPN/100mL	11/17/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	3.8 ± 15%	mg/L	11/5/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	3.80	mg/L	11/16/2020	COW_ASB
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	11/17/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	11/17/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	11/17/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	11/17/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	11/17/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	11/17/2020	ALS
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Surrogate: 1,4-Difluorobenzene	95.5	%	11/17/2020	ALS
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Acetone	<0.050	mg/L	11/17/2020	ALS
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Benzene	<0.00050	mg/L	11/17/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	11/17/2020	ALS
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Bromoform	<0.0010	mg/L	11/17/2020	ALS
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Bromomethane	<0.001	mg/L	11/17/2020	ALS
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Chlorobenzene	<0.0010	mg/L	11/17/2020	ALS
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Chloroethane	<0.001	mg/L	11/17/2020	ALS
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Chloroform	<0.00050	mg/L	11/17/2020	ALS
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Chloromethane	<0.005	mg/L	11/17/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	11/17/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	11/17/2020	ALS
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Dichloromethane	<0.00500	mg/L	11/17/2020	ALS
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Ethylbenzene	<0.00050	mg/L	11/17/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	11/17/2020	ALS
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o-Xylene	<0.0005	mg/L	11/17/2020	ALS
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Styrene	<0.0010	mg/L	11/17/2020	ALS
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Toluene	<0.00050	mg/L	11/17/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	11/17/2020	ALS
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Vinyl Chloride	<0.0005	mg/L	11/17/2020	ALS
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Sample No. : 337329
Sample Description : SWQ36-2
Sample Date : November 3, 2020
Sample Received : November 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	340 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, total to pH 4.5	340 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		11/6/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	>2.000 ± 16.9%	mg/L		11/8/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.099 ± 7.8%	mg/L		11/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	104 ± 6%	mg/L		11/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	24.0 ± 10%	mg/L		11/7/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	8 ± 15%	mg/L		11/9/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	88.0 ± 6.1%	mg/L		11/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	932 ± 7.2%	uS		11/4/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.25 ± 0.07 units	units		11/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	534 ± 6.5%	mg/L		11/5/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	176.0	mg/L		11/5/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	710 ± 6.2%	mg/L		11/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	25.0 ± 13%	mg/L		11/5/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	26.0 ± 13%	mg/L		11/5/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.001005 ± 9.2%	mg/L		11/16/2020	COW_ASB
Arsenic (As), total in water	0.005651 ± 8.1%	mg/L		11/16/2020	COW_ASB
Barium (Ba), total in water	0.12395 ± 11.8%	mg/L		11/16/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/16/2020	COW_ASB
Boron (B), total in water	0.10805 ± 24.2%	mg/L		11/16/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		11/16/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	46.665 ± 20.9%	mg/L	11/16/2020	COW_ASB
Chromium (Cr), total in water	0.00451 ± 12.8%	mg/L	11/16/2020	COW_ASB
Copper (Cu), total in water	0.007118 ± 12.1%	mg/L	11/16/2020	COW_ASB
Iron (Fe), total in water	2.6074 ± 9.7%	mg/L	11/16/2020	COW_ASB
Lead (Pb), total in water	0.001770 ± 8.3%	mg/L	11/16/2020	COW_ASB
Magnesium (Mg), total in water	55.810 ± 10.5%	mg/L	11/16/2020	COW_ASB
Manganese (Mn), total in water	0.24690 ± 11.2%	mg/L	11/16/2020	COW_ASB
Nickel (Ni), total in water	0.007256 ± 12.2%	mg/L	11/16/2020	COW_ASB
Phosphorus (P), total in water	0.7090 ± 4.5%	mg/L	11/16/2020	COW_ASB
Potassium (K), total in water	15.999 ± 18.3%	mg/L	11/16/2020	COW_ASB
Selenium (Se), total in water	0.00021 ± 8.0%	mg/L	11/16/2020	COW_ASB
Sodium (Na), total in water	43.300 ± 9.2%	mg/L	11/16/2020	COW_ASB
Uranium (U), total in water	0.002350 ± 10.0%	mg/L	11/16/2020	COW_ASB
Zinc (Zn), total in water	0.02056 ± 10.7%	mg/L	11/16/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	117	mg/L	11/29/2020	COW_ASB
Total Hardness, calculated in water	346	mg/L	11/29/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	48.70 ± 4.4%	NTU	11/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	99.700	mg/L	11/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	19.10	mg/L	11/17/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	11/17/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	11/17/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	103.600	%	11/17/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	11/17/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	11/17/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	11/17/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/17/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	0.0000072	mg/L	11/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	11/17/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	11/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	11/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	326	MPN/100mL	11/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	435	MPN/100mL	11/17/2020	ALS
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Total Coliforms by QT97	>2420	MPN/100mL	11/17/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	6.5 ± 15%	mg/L	11/5/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	6.37	mg/L	11/29/2020	COW_ASB
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	11/17/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	11/17/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	11/17/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	11/17/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	11/17/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	11/17/2020	ALS
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Surrogate: 1,4-Difluorobenzene	96.0	%	11/17/2020	ALS
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Acetone	<0.050	mg/L	11/17/2020	ALS
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Benzene	<0.00050	mg/L	11/17/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	11/17/2020	ALS
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Bromoform	<0.0010	mg/L	11/17/2020	ALS
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Bromomethane	<0.001	mg/L	11/17/2020	ALS
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Chlorobenzene	<0.0010	mg/L	11/17/2020	ALS
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Chloroethane	<0.001	mg/L	11/17/2020	ALS
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Chloroform	<0.00050	mg/L	11/17/2020	ALS
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Chloromethane	<0.005	mg/L	11/17/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	11/17/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	11/17/2020	ALS
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Dichloromethane	<0.00500	mg/L	11/17/2020	ALS
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Ethylbenzene	<0.00050	mg/L	11/17/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	11/17/2020	ALS
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o-Xylene	<0.0005	mg/L	11/17/2020	ALS
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Styrene	<0.0010	mg/L	11/17/2020	ALS
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Toluene	<0.00050	mg/L	11/17/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	11/17/2020	ALS
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Vinyl Chloride	<0.0005	mg/L	11/17/2020	ALS
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Sample No. : 337330
Sample Description : SWQ36-3
Sample Date : November 3, 2020
Sample Received : November 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	379 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, total to pH 4.5	379 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		11/6/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	>2.000 ± 16.9%	mg/L		11/8/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.062 ± 7.8%	mg/L		11/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	123 ± 6%	mg/L		11/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	33.6 ± 10%	mg/L		11/7/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	9 ± 15%	mg/L		11/9/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	105 ± 6.1%	mg/L		11/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1050 ± 7.2%	uS		11/4/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.35 ± 0.07 units	units		11/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	607 ± 6.5%	mg/L		11/5/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	97.0	mg/L		11/5/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	704 ± 6.2%	mg/L		11/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	25.8 ± 13%	mg/L		11/5/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	30.5 ± 13%	mg/L		11/5/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000605 ± 9.2%	mg/L		11/16/2020	COW_ASB
Arsenic (As), total in water	0.005930 ± 8.1%	mg/L		11/16/2020	COW_ASB
Barium (Ba), total in water	0.14830 ± 11.8%	mg/L		11/16/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/16/2020	COW_ASB
Boron (B), total in water	0.13055 ± 24.2%	mg/L		11/16/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		11/16/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	48.784 ± 20.9%	mg/L	11/16/2020	COW_ASB
Chromium (Cr), total in water	0.00598 ± 12.8%	mg/L	11/16/2020	COW_ASB
Copper (Cu), total in water	0.001741 ± 12.1%	mg/L	11/16/2020	COW_ASB
Iron (Fe), total in water	0.55579 ± 9.7%	mg/L	11/16/2020	COW_ASB
Lead (Pb), total in water	0.000163 ± 8.3%	mg/L	11/16/2020	COW_ASB
Magnesium (Mg), total in water	62.629 ± 10.5%	mg/L	11/16/2020	COW_ASB
Manganese (Mn), total in water	1.0493 ± 11.2%	mg/L	11/16/2020	COW_ASB
Nickel (Ni), total in water	0.003584 ± 12.2%	mg/L	11/16/2020	COW_ASB
Phosphorus (P), total in water	0.7985 ± 4.5%	mg/L	11/16/2020	COW_ASB
Potassium (K), total in water	17.412 ± 18.3%	mg/L	11/16/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	11/16/2020	COW_ASB
Sodium (Na), total in water	73.795 ± 9.2%	mg/L	11/16/2020	COW_ASB
Uranium (U), total in water	0.000989 ± 10.0%	mg/L	11/16/2020	COW_ASB
Zinc (Zn), total in water	0.00847 ± 10.7%	mg/L	11/16/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	122	mg/L	11/29/2020	COW_ASB
Total Hardness, calculated in water	380	mg/L	11/29/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	13.40 ± 4.4%	NTU	11/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	127.000	mg/L	11/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	27.50	mg/L	11/17/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	11/17/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	11/17/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	104.700	%	11/17/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	11/17/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	11/17/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	11/17/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/17/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	11/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	11/17/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	11/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	11/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	8	MPN/100mL	11/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	6	MPN/100mL	11/17/2020	ALS
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Total Coliforms by QT97	162	MPN/100mL	11/17/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	6.3 ± 15%	mg/L	11/5/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	6.19	mg/L	11/29/2020	COW_ASB
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	11/17/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	11/17/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	11/17/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	11/17/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	11/17/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	11/17/2020	ALS
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Surrogate: 1,4-Difluorobenzene	96.1	%	11/17/2020	ALS
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Acetone	<0.050	mg/L	11/17/2020	ALS
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Benzene	<0.00050	mg/L	11/17/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	11/17/2020	ALS
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Bromoform	<0.0010	mg/L	11/17/2020	ALS
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Bromomethane	<0.001	mg/L	11/17/2020	ALS
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Chlorobenzene	<0.0010	mg/L	11/17/2020	ALS
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Chloroethane	<0.001	mg/L	11/17/2020	ALS
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Chloroform	<0.00050	mg/L	11/17/2020	ALS
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Chloromethane	<0.005	mg/L	11/17/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	11/17/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	11/17/2020	ALS
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Dichloromethane	<0.00500	mg/L	11/17/2020	ALS
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Ethylbenzene	<0.00050	mg/L	11/17/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	11/17/2020	ALS
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o-Xylene	<0.0005	mg/L	11/17/2020	ALS
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Styrene	<0.0010	mg/L	11/17/2020	ALS
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Toluene	<0.00050	mg/L	11/17/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	11/17/2020	ALS
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Vinyl Chloride	<0.0005	mg/L	11/17/2020	ALS
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Sample No. : 337331
Sample Description : SWQ36-4
Sample Date : November 3, 2020
Sample Received : November 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	287 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, total to pH 4.5	298 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	5.3 ± 2.8%	mg/L		11/6/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.018 ± 16.9%	mg/L		11/8/2020	COW_ASB
Nitrate+Nitrite Nitrogen	<0.003 ± 7.8%	mg/L		11/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	134 ± 6%	mg/L		11/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	67.8 ± 10%	mg/L		11/7/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	7 ± 15%	mg/L		11/9/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	154 ± 6.1%	mg/L		11/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	999 ± 7.2%	uS		11/4/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.63 ± 0.07 units	units		11/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	573 ± 6.5%	mg/L		11/5/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	271.0	mg/L		11/5/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	844 ± 6.2%	mg/L		11/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	21.2 ± 13%	mg/L		11/5/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	25.5 ± 13%	mg/L		11/5/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	0.000540 ± 9.2%	mg/L		11/16/2020	COW_ASB
Arsenic (As), total in water	0.005022 ± 8.1%	mg/L		11/16/2020	COW_ASB
Barium (Ba), total in water	0.10725 ± 11.8%	mg/L		11/16/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/16/2020	COW_ASB
Boron (B), total in water	0.16249 ± 24.2%	mg/L		11/16/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		11/16/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	39.950 ± 20.9%	mg/L	11/16/2020	COW_ASB
Chromium (Cr), total in water	0.00251 ± 12.8%	mg/L	11/16/2020	COW_ASB
Copper (Cu), total in water	0.005550 ± 12.1%	mg/L	11/16/2020	COW_ASB
Iron (Fe), total in water	1.6149 ± 9.7%	mg/L	11/16/2020	COW_ASB
Lead (Pb), total in water	0.001705 ± 8.3%	mg/L	11/16/2020	COW_ASB
Magnesium (Mg), total in water	61.072 ± 10.5%	mg/L	11/16/2020	COW_ASB
Manganese (Mn), total in water	0.23240 ± 11.2%	mg/L	11/16/2020	COW_ASB
Nickel (Ni), total in water	0.005908 ± 12.2%	mg/L	11/16/2020	COW_ASB
Phosphorus (P), total in water	0.3803 ± 4.5%	mg/L	11/16/2020	COW_ASB
Potassium (K), total in water	14.594 ± 18.3%	mg/L	11/16/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	11/16/2020	COW_ASB
Sodium (Na), total in water	64.109 ± 9.2%	mg/L	11/16/2020	COW_ASB
Uranium (U), total in water	0.001850 ± 10.0%	mg/L	11/16/2020	COW_ASB
Zinc (Zn), total in water	0.01805 ± 10.7%	mg/L	11/16/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	99.8	mg/L	11/29/2020	COW_ASB
Total Hardness, calculated in water	351	mg/L	11/29/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	50.40 ± 4.4%	NTU	11/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	133.000	mg/L	11/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	49.90	mg/L	11/17/2020	ALS
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	11/17/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	11/17/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	104.600	%	11/17/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	11/17/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	11/17/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	11/17/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/17/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	11/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	11/17/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	11/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	11/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	46	MPN/100mL	11/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	236	MPN/100mL	11/17/2020	ALS
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Total Coliforms by QT97	1200	MPN/100mL	11/17/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	2.2 ± 15%	mg/L	11/5/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	2.20	mg/L	11/29/2020	COW_ASB
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
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1,1,2-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
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1,2-Dibromoethane	<0.0010	mg/L	11/17/2020	ALS
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1,2-Dichlorobenzene	<0.00050	mg/L	11/17/2020	ALS
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1,2-Dichloroethane	<0.00050	mg/L	11/17/2020	ALS
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1,2-Dichloropropane	<0.0010	mg/L	11/17/2020	ALS
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1,3-Dichlorobenzene	<0.0010	mg/L	11/17/2020	ALS
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1,4-Dichlorobenzene	<0.00100	mg/L	11/17/2020	ALS
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Surrogate: 1,4-Difluorobenzene	95.3	%	11/17/2020	ALS
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Acetone	<0.050	mg/L	11/17/2020	ALS
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Benzene	<0.00050	mg/L	11/17/2020	ALS
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Bromodichloromethane	<0.00050	mg/L	11/17/2020	ALS
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Bromoform	<0.0010	mg/L	11/17/2020	ALS
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Bromomethane	<0.001	mg/L	11/17/2020	ALS
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Chlorobenzene	<0.0010	mg/L	11/17/2020	ALS
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Chloroethane	<0.001	mg/L	11/17/2020	ALS
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Chloroform	<0.00050	mg/L	11/17/2020	ALS
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Chloromethane	<0.005	mg/L	11/17/2020	ALS
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cis-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
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Dibromochloromethane	<0.0005	mg/L	11/17/2020	ALS
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Dichlorodifluoromethane	<0.001	mg/L	11/17/2020	ALS
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Dichloromethane	<0.00500	mg/L	11/17/2020	ALS
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Ethylbenzene	<0.00050	mg/L	11/17/2020	ALS
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Methyltertbutylether [MTBE]	<0.0005	mg/L	11/17/2020	ALS
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o-Xylene	<0.0005	mg/L	11/17/2020	ALS
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Styrene	<0.0010	mg/L	11/17/2020	ALS
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Toluene	<0.00050	mg/L	11/17/2020	ALS
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trans-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
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Trichlorofluoromethane	<0.0010	mg/L	11/17/2020	ALS
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Vinyl Chloride	<0.0005	mg/L	11/17/2020	ALS
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Sample No. : 337332
Sample Description : SWQ36-100
Sample Date : November 3, 2020
Sample Received : November 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	317 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, total to pH 4.5	317 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		11/6/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	>2.000 ± 16.9%	mg/L		11/8/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.128 ± 7.8%	mg/L		11/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	103 ± 6%	mg/L		11/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	19.4 ± 10%	mg/L		11/7/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	11 ± 15%	mg/L		11/9/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	85.0 ± 6.1%	mg/L		11/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	881 ± 7.2%	uS		11/4/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.25 ± 0.07 units	units		11/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	504 ± 6.5%	mg/L		11/5/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	128.0	mg/L		11/5/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	632 ± 6.2%	mg/L		11/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	26.0 ± 13%	mg/L		11/5/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	26.8 ± 13%	mg/L		11/5/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		11/16/2020	COW_ASB
Arsenic (As), total in water	0.004769 ± 8.1%	mg/L		11/16/2020	COW_ASB
Barium (Ba), total in water	0.10923 ± 11.8%	mg/L		11/16/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/16/2020	COW_ASB
Boron (B), total in water	0.10405 ± 24.2%	mg/L		11/16/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		11/16/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	43.742 ± 20.9%	mg/L	11/16/2020	COW_ASB
Chromium (Cr), total in water	0.00211 ± 12.8%	mg/L	11/16/2020	COW_ASB
Copper (Cu), total in water	0.005038 ± 12.1%	mg/L	11/16/2020	COW_ASB
Iron (Fe), total in water	1.4982 ± 9.7%	mg/L	11/16/2020	COW_ASB
Lead (Pb), total in water	0.000858 ± 8.3%	mg/L	11/16/2020	COW_ASB
Magnesium (Mg), total in water	50.225 ± 10.5%	mg/L	11/16/2020	COW_ASB
Manganese (Mn), total in water	0.19331 ± 11.2%	mg/L	11/16/2020	COW_ASB
Nickel (Ni), total in water	0.005535 ± 12.2%	mg/L	11/16/2020	COW_ASB
Phosphorus (P), total in water	0.6883 ± 4.5%	mg/L	11/16/2020	COW_ASB
Potassium (K), total in water	15.473 ± 18.3%	mg/L	11/16/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	11/16/2020	COW_ASB
Sodium (Na), total in water	48.644 ± 9.2%	mg/L	11/16/2020	COW_ASB
Uranium (U), total in water	0.002731 ± 10.0%	mg/L	11/16/2020	COW_ASB
Zinc (Zn), total in water	0.01835 ± 10.7%	mg/L	11/16/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	109	mg/L	11/17/2020	COW_ASB
Total Hardness, calculated in water	316	mg/L	11/17/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	35.90 ± 4.4%	NTU	11/4/2020	COW_ASB
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CCME Total Hydrocarbons

Fraction 1 (C6-C10) - BTEX	<0.10	mg/L	11/17/2020	ALS
Total Hydrocarbons (C6-C50)	<0.38	mg/L	11/17/2020	ALS

Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/17/2020	ALS
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	101.000	mg/L	11/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	308	MPN/100mL	11/17/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	0.0000072	mg/L	11/17/2020	ALS
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VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/17/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/17/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/17/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/17/2020	ALS
Surrogate: 1,4-Difluorobenzene	95.3	%	11/17/2020	ALS
Acetone	<0.050	mg/L	11/17/2020	ALS

VOC plus F1 by GCMS

Benzene	<0.00050	mg/L	11/17/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/17/2020	ALS
Bromoform	<0.0010	mg/L	11/17/2020	ALS
Bromomethane	<0.001	mg/L	11/17/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/17/2020	ALS
Chloroethane	<0.001	mg/L	11/17/2020	ALS
Chloroform	<0.00050	mg/L	11/17/2020	ALS
Chloromethane	<0.005	mg/L	11/17/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/17/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/17/2020	ALS
Dichloromethane	<0.00500	mg/L	11/17/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/17/2020	ALS
F1	<0.1000	mg/L	11/17/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/17/2020	ALS
o-Xylene	<0.0005	mg/L	11/17/2020	ALS
Styrene	<0.0010	mg/L	11/17/2020	ALS
Toluene	<0.00050	mg/L	11/17/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/17/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/17/2020	ALS

CCME PHC F2-F4 in water

Surrogate: 2-Bromobenzotrifluoride	101.700	%	11/17/2020	ALS
Fraction 2 (C10-C16)	<0.100	mg/L	11/17/2020	ALS
Fraction 3 (C16-C34)	<0.250	mg/L	11/17/2020	ALS
Fraction 4 (C34-C50)	<0.250	mg/L	11/17/2020	ALS

Phenol (4AAP)

Phenols (4AAP) in water	0.006	mg/L	11/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	19.00	mg/L	11/17/2020	ALS
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Sum of Xylene Isomer Concentrations

Xylenes (Total) in water	<0.00064	mg/L	11/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	548	MPN/100mL	11/17/2020	ALS
Total Coliforms by QT97	>2420	MPN/100mL	11/17/2020	ALS

Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	11/17/2020	ALS
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Total Nitrogen by High Temperature Combustion

Total Nitrogen	5.9 ± 15%	mg/L	11/5/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	5.77	mg/L	11/17/2020	COW_ASB
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Sample No. : 337333
Sample Description : SWQ1-1
Sample Date : November 3, 2020
Sample Received : November 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	289 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, total to pH 4.5	289 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		11/6/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.007 ± 16.9%	mg/L		11/8/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.010 ± 7.8%	mg/L		11/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	37.5 ± 6%	mg/L		11/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	13.3 ± 10%	mg/L		11/7/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		11/9/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	33.0 ± 6.1%	mg/L		11/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	632 ± 7.2%	uS		11/4/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.27 ± 0.07 units	units		11/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	368 ± 6.5%	mg/L		11/5/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	50.0	mg/L		11/5/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	418 ± 6.2%	mg/L		11/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	11.6 ± 13%	mg/L		11/5/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	11.6 ± 13%	mg/L		11/5/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		11/16/2020	COW_ASB
Arsenic (As), total in water	0.001300 ± 8.1%	mg/L		11/16/2020	COW_ASB
Barium (Ba), total in water	0.077923 ± 11.8%	mg/L		11/16/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/16/2020	COW_ASB
Boron (B), total in water	0.03975 ± 24.2%	mg/L		11/16/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		11/16/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	68.307 ± 20.9%	mg/L	11/16/2020	COW_ASB
Chromium (Cr), total in water	0.00125 ± 12.8%	mg/L	11/16/2020	COW_ASB
Copper (Cu), total in water	0.002697 ± 12.1%	mg/L	11/16/2020	COW_ASB
Iron (Fe), total in water	0.48162 ± 9.7%	mg/L	11/16/2020	COW_ASB
Lead (Pb), total in water	0.000079 ± 8.3%	mg/L	11/16/2020	COW_ASB
Magnesium (Mg), total in water	25.380 ± 10.5%	mg/L	11/16/2020	COW_ASB
Manganese (Mn), total in water	0.01557 ± 11.2%	mg/L	11/16/2020	COW_ASB
Nickel (Ni), total in water	0.001873 ± 12.2%	mg/L	11/16/2020	COW_ASB
Phosphorus (P), total in water	0.0911 ± 4.5%	mg/L	11/16/2020	COW_ASB
Potassium (K), total in water	4.880 ± 18.3%	mg/L	11/16/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	11/16/2020	COW_ASB
Sodium (Na), total in water	27.846 ± 9.2%	mg/L	11/16/2020	COW_ASB
Uranium (U), total in water	0.000077 ± 10.0%	mg/L	11/16/2020	COW_ASB
Zinc (Zn), total in water	0.00613 ± 10.7%	mg/L	11/16/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	171	mg/L	11/29/2020	COW_ASB
Total Hardness, calculated in water	275	mg/L	11/29/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	12.80 ± 4.4%	NTU	11/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	38.900	mg/L	11/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	13.00	mg/L	11/17/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/17/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	11/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.004	mg/L	11/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	11/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	121	MPN/100mL	11/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	135	MPN/100mL	11/17/2020	ALS
Total Coliforms by QT97	687	MPN/100mL	11/17/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	0.3 ± 15%	mg/L	11/5/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	0.32	mg/L	11/29/2020	COW_ASB
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VOC plus F1 by GCMS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/17/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/17/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/17/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/17/2020	ALS
Surrogate: 1,4-Difluorobenzene	100.4	%	11/17/2020	ALS
Acetone	<0.050	mg/L	11/17/2020	ALS
Benzene	<0.00050	mg/L	11/17/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/17/2020	ALS
Bromoform	<0.0010	mg/L	11/17/2020	ALS
Bromomethane	<0.001	mg/L	11/17/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/17/2020	ALS
Chloroethane	<0.001	mg/L	11/17/2020	ALS
Chloroform	<0.00050	mg/L	11/17/2020	ALS
Chloromethane	<0.005	mg/L	11/17/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/17/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/17/2020	ALS
Dichloromethane	<0.00500	mg/L	11/17/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/17/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/17/2020	ALS
o-Xylene	<0.0005	mg/L	11/17/2020	ALS
Styrene	<0.0010	mg/L	11/17/2020	ALS
Toluene	<0.00050	mg/L	11/17/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/17/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/17/2020	ALS

Sample No. : 337334
Sample Description : SWQ1-2
Sample Date : November 3, 2020
Sample Received : November 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	289 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, total to pH 4.5	289 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		11/6/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.004 ± 16.9%	mg/L		11/8/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.011 ± 7.8%	mg/L		11/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	38.5 ± 6%	mg/L		11/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	11.9 ± 10%	mg/L		11/7/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		11/9/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	36.0 ± 6.1%	mg/L		11/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	640 ± 7.2%	uS		11/4/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.27 ± 0.07 units	units		11/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	362 ± 6.5%	mg/L		11/5/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	58.0	mg/L		11/5/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	420 ± 6.2%	mg/L		11/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	12.2 ± 13%	mg/L		11/5/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	11.5 ± 13%	mg/L		11/5/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		11/16/2020	COW_ASB
Arsenic (As), total in water	0.001284 ± 8.1%	mg/L		11/16/2020	COW_ASB
Barium (Ba), total in water	0.076932 ± 11.8%	mg/L		11/16/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/16/2020	COW_ASB
Boron (B), total in water	0.04360 ± 24.2%	mg/L		11/16/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		11/16/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	69.403 ± 20.9%	mg/L	11/16/2020	COW_ASB
Chromium (Cr), total in water	0.00546 ± 12.8%	mg/L	11/16/2020	COW_ASB
Copper (Cu), total in water	0.003153 ± 12.1%	mg/L	11/16/2020	COW_ASB
Iron (Fe), total in water	0.51190 ± 9.7%	mg/L	11/16/2020	COW_ASB
Lead (Pb), total in water	0.000170 ± 8.3%	mg/L	11/16/2020	COW_ASB
Magnesium (Mg), total in water	24.483 ± 10.5%	mg/L	11/16/2020	COW_ASB
Manganese (Mn), total in water	0.01563 ± 11.2%	mg/L	11/16/2020	COW_ASB
Nickel (Ni), total in water	0.002830 ± 12.2%	mg/L	11/16/2020	COW_ASB
Phosphorus (P), total in water	0.0867 ± 4.5%	mg/L	11/16/2020	COW_ASB
Potassium (K), total in water	4.819 ± 18.3%	mg/L	11/16/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	11/16/2020	COW_ASB
Sodium (Na), total in water	27.428 ± 9.2%	mg/L	11/16/2020	COW_ASB
Uranium (U), total in water	0.000044 ± 10.0%	mg/L	11/16/2020	COW_ASB
Zinc (Zn), total in water	0.00737 ± 10.7%	mg/L	11/16/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	173	mg/L	11/17/2020	COW_ASB
Total Hardness, calculated in water	274	mg/L	11/17/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	17.90 ± 4.4%	NTU	11/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	39.100	mg/L	11/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	12.80	mg/L	11/17/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/17/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	11/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.014	mg/L	11/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	11/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	167	MPN/100mL	11/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	167	MPN/100mL	11/17/2020	ALS
Total Coliforms by QT97	866	MPN/100mL	11/17/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	0.3 ± 15%	mg/L	11/5/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	0.26	mg/L	11/17/2020	COW_ASB
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VOC plus F1 by GCMS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/17/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/17/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/17/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/17/2020	ALS
Surrogate: 1,4-Difluorobenzene	96.7	%	11/17/2020	ALS
Acetone	<0.050	mg/L	11/17/2020	ALS
Benzene	<0.00050	mg/L	11/17/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/17/2020	ALS
Bromoform	<0.0010	mg/L	11/17/2020	ALS
Bromomethane	<0.001	mg/L	11/17/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/17/2020	ALS
Chloroethane	<0.001	mg/L	11/17/2020	ALS
Chloroform	<0.00050	mg/L	11/17/2020	ALS
Chloromethane	<0.005	mg/L	11/17/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/17/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/17/2020	ALS
Dichloromethane	<0.00500	mg/L	11/17/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/17/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/17/2020	ALS
o-Xylene	<0.0005	mg/L	11/17/2020	ALS
Styrene	<0.0010	mg/L	11/17/2020	ALS
Toluene	<0.00050	mg/L	11/17/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/17/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/17/2020	ALS

Sample No. : 337335
Sample Description : SWQ15-1
Sample Date : November 3, 2020
Sample Received : November 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	231 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, total to pH 4.5	231 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		11/6/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.043 ± 16.9%	mg/L		11/8/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.081 ± 7.8%	mg/L		11/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	130 ± 6%	mg/L		11/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	134 ± 10%	mg/L		11/7/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	4 ± 15%	mg/L		11/9/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	73.0 ± 6.1%	mg/L		11/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1040 ± 7.2%	uS		11/4/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.59 ± 0.07 units	units		11/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	613 ± 6.5%	mg/L		11/5/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	297.0	mg/L		11/5/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	910 ± 6.2%	mg/L		11/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	10.4 ± 13%	mg/L		11/5/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	12.9 ± 13%	mg/L		11/5/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		11/16/2020	COW_ASB
Arsenic (As), total in water	0.002399 ± 8.1%	mg/L		11/16/2020	COW_ASB
Barium (Ba), total in water	0.084557 ± 11.8%	mg/L		11/16/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/16/2020	COW_ASB
Boron (B), total in water	0.04956 ± 24.2%	mg/L		11/16/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		11/16/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	85.481 ± 20.9%	mg/L	11/16/2020	COW_ASB
Chromium (Cr), total in water	0.00621 ± 12.8%	mg/L	11/16/2020	COW_ASB
Copper (Cu), total in water	0.014958 ± 12.1%	mg/L	11/16/2020	COW_ASB
Iron (Fe), total in water	5.7676 ± 9.7%	mg/L	11/16/2020	COW_ASB
Lead (Pb), total in water	0.021801 ± 8.3%	mg/L	11/16/2020	COW_ASB
Magnesium (Mg), total in water	57.640 ± 10.5%	mg/L	11/16/2020	COW_ASB
Manganese (Mn), total in water	0.23295 ± 11.2%	mg/L	11/16/2020	COW_ASB
Nickel (Ni), total in water	0.005910 ± 12.2%	mg/L	11/16/2020	COW_ASB
Phosphorus (P), total in water	0.3677 ± 4.5%	mg/L	11/16/2020	COW_ASB
Potassium (K), total in water	8.696 ± 18.3%	mg/L	11/16/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	11/16/2020	COW_ASB
Sodium (Na), total in water	51.025 ± 9.2%	mg/L	11/16/2020	COW_ASB
Uranium (U), total in water	0.001547 ± 10.0%	mg/L	11/16/2020	COW_ASB
Zinc (Zn), total in water	0.08624 ± 10.7%	mg/L	11/16/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	213	mg/L	11/17/2020	COW_ASB
Total Hardness, calculated in water	451	mg/L	11/17/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	104.00 ± 4.4%	NTU	11/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	125.000	mg/L	11/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	119.00	mg/L	11/17/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/17/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	0.0000101	mg/L	11/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.006	mg/L	11/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	11/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	1300	MPN/100mL	11/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	1200	MPN/100mL	11/17/2020	ALS
Total Coliforms by QT97	>2420	MPN/100mL	11/17/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	0.7 ± 15%	mg/L	11/5/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	0.61	mg/L	11/17/2020	COW_ASB
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VOC plus F1 by GCMS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/17/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/17/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/17/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/17/2020	ALS
Surrogate: 1,4-Difluorobenzene	96.8	%	11/17/2020	ALS
Acetone	<0.050	mg/L	11/17/2020	ALS
Benzene	<0.00050	mg/L	11/17/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/17/2020	ALS
Bromoform	<0.0010	mg/L	11/17/2020	ALS
Bromomethane	<0.001	mg/L	11/17/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/17/2020	ALS
Chloroethane	<0.001	mg/L	11/17/2020	ALS
Chloroform	<0.00050	mg/L	11/17/2020	ALS
Chloromethane	<0.005	mg/L	11/17/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/17/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/17/2020	ALS
Dichloromethane	<0.00500	mg/L	11/17/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/17/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/17/2020	ALS
o-Xylene	<0.0005	mg/L	11/17/2020	ALS
Styrene	<0.0010	mg/L	11/17/2020	ALS
Toluene	<0.00050	mg/L	11/17/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/17/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/17/2020	ALS

Sample No. : 337336
Sample Description : SWQ15-2
Sample Date : November 3, 2020
Sample Received : November 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	286 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, total to pH 4.5	286 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		11/6/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	<0.003 ± 16.9%	mg/L		11/8/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.008 ± 7.8%	mg/L		11/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	180 ± 6%	mg/L		11/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	299 ± 10%	mg/L		11/7/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		11/9/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	55.0 ± 6.1%	mg/L		11/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	1560 ± 7.2%	uS		11/4/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.67 ± 0.07 units	units		11/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1030 ± 6.5%	mg/L		11/5/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	134.0	mg/L		11/5/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1160 ± 6.2%	mg/L		11/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	10.9 ± 13%	mg/L		11/5/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	11.5 ± 13%	mg/L		11/5/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		11/16/2020	COW_ASB
Arsenic (As), total in water	0.001245 ± 8.1%	mg/L		11/16/2020	COW_ASB
Barium (Ba), total in water	0.081941 ± 11.8%	mg/L		11/16/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/16/2020	COW_ASB
Boron (B), total in water	0.29322 ± 24.2%	mg/L		11/16/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		11/16/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	125.64 ± 20.9%	mg/L	11/16/2020	COW_ASB
Chromium (Cr), total in water	0.00215 ± 12.8%	mg/L	11/16/2020	COW_ASB
Copper (Cu), total in water	0.004757 ± 12.1%	mg/L	11/16/2020	COW_ASB
Iron (Fe), total in water	1.7105 ± 9.7%	mg/L	11/16/2020	COW_ASB
Lead (Pb), total in water	0.007865 ± 8.3%	mg/L	11/16/2020	COW_ASB
Magnesium (Mg), total in water	66.530 ± 10.5%	mg/L	11/16/2020	COW_ASB
Manganese (Mn), total in water	0.26479 ± 11.2%	mg/L	11/16/2020	COW_ASB
Nickel (Ni), total in water	0.002799 ± 12.2%	mg/L	11/16/2020	COW_ASB
Phosphorus (P), total in water	0.2600 ± 4.5%	mg/L	11/16/2020	COW_ASB
Potassium (K), total in water	9.838 ± 18.3%	mg/L	11/16/2020	COW_ASB
Selenium (Se), total in water	<0.00019 ± 8.0%	mg/L	11/16/2020	COW_ASB
Sodium (Na), total in water	140.25 ± 9.2%	mg/L	11/16/2020	COW_ASB
Uranium (U), total in water	0.001920 ± 10.0%	mg/L	11/16/2020	COW_ASB
Zinc (Zn), total in water	0.03140 ± 10.7%	mg/L	11/16/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	314	mg/L	11/17/2020	COW_ASB
Total Hardness, calculated in water	588	mg/L	11/17/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	29.30 ± 4.4%	NTU	11/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	206.000	mg/L	11/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	339.00	mg/L	11/17/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/17/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	11/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	11/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	11/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	27	MPN/100mL	11/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	44	MPN/100mL	11/17/2020	ALS
Total Coliforms by QT97	770	MPN/100mL	11/17/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	0.5 ± 15%	mg/L	11/5/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	0.46	mg/L	11/17/2020	COW_ASB
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VOC plus F1 by GCMS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/17/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/17/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/17/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/17/2020	ALS
Surrogate: 1,4-Difluorobenzene	97.1	%	11/17/2020	ALS
Acetone	<0.050	mg/L	11/17/2020	ALS
Benzene	<0.00050	mg/L	11/17/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/17/2020	ALS
Bromoform	<0.0010	mg/L	11/17/2020	ALS
Bromomethane	<0.001	mg/L	11/17/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/17/2020	ALS
Chloroethane	<0.001	mg/L	11/17/2020	ALS
Chloroform	<0.00050	mg/L	11/17/2020	ALS
Chloromethane	<0.005	mg/L	11/17/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/17/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/17/2020	ALS
Dichloromethane	<0.00500	mg/L	11/17/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/17/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/17/2020	ALS
o-Xylene	<0.0005	mg/L	11/17/2020	ALS
Styrene	<0.0010	mg/L	11/17/2020	ALS
Toluene	<0.00050	mg/L	11/17/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/17/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/17/2020	ALS

Sample No. : 337337
Sample Description : SWQ18-1
Sample Date : November 3, 2020
Sample Received : November 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	455 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, total to pH 4.5	455 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		11/6/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.019 ± 16.9%	mg/L		11/8/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.027 ± 7.8%	mg/L		11/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	194 ± 6%	mg/L		11/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	432 ± 10%	mg/L		11/7/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		11/9/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	29.0 ± 6.1%	mg/L		11/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2190 ± 7.2%	uS		11/4/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	7.89 ± 0.07 units	units		11/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1430 ± 6.5%	mg/L		11/5/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	147.0	mg/L		11/5/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1580 ± 6.2%	mg/L		11/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	4.4 ± 13%	mg/L		11/5/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	4.6 ± 13%	mg/L		11/5/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		11/16/2020	COW_ASB
Arsenic (As), total in water	0.001267 ± 8.1%	mg/L		11/16/2020	COW_ASB
Barium (Ba), total in water	0.027574 ± 11.8%	mg/L		11/16/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/16/2020	COW_ASB
Boron (B), total in water	0.40646 ± 24.2%	mg/L		11/16/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		11/16/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	150.25 ± 20.9%	mg/L	11/16/2020	COW_ASB
Chromium (Cr), total in water	0.00149 ± 12.8%	mg/L	11/16/2020	COW_ASB
Copper (Cu), total in water	0.002991 ± 12.1%	mg/L	11/16/2020	COW_ASB
Iron (Fe), total in water	1.2299 ± 9.7%	mg/L	11/16/2020	COW_ASB
Lead (Pb), total in water	0.000454 ± 8.3%	mg/L	11/16/2020	COW_ASB
Magnesium (Mg), total in water	114.54 ± 10.5%	mg/L	11/16/2020	COW_ASB
Manganese (Mn), total in water	0.05493 ± 11.2%	mg/L	11/16/2020	COW_ASB
Nickel (Ni), total in water	0.002703 ± 12.2%	mg/L	11/16/2020	COW_ASB
Phosphorus (P), total in water	0.0833 ± 4.5%	mg/L	11/16/2020	COW_ASB
Potassium (K), total in water	14.660 ± 18.3%	mg/L	11/16/2020	COW_ASB
Selenium (Se), total in water	0.00283 ± 8.0%	mg/L	11/16/2020	COW_ASB
Sodium (Na), total in water	223.18 ± 9.2%	mg/L	11/16/2020	COW_ASB
Uranium (U), total in water	0.009808 ± 10.0%	mg/L	11/16/2020	COW_ASB
Zinc (Zn), total in water	0.00855 ± 10.7%	mg/L	11/16/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	375	mg/L	11/17/2020	COW_ASB
Total Hardness, calculated in water	847	mg/L	11/17/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	29.40 ± 4.4%	NTU	11/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	278.000	mg/L	11/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	434.00	mg/L	11/17/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/17/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	11/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	11/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	11/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	69	MPN/100mL	11/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	119	MPN/100mL	11/17/2020	ALS
Total Coliforms by QT97	659	MPN/100mL	11/17/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	0.4 ± 15%	mg/L	11/5/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	0.40	mg/L	11/17/2020	COW_ASB
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VOC plus F1 by GCMS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/17/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/17/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/17/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/17/2020	ALS
Surrogate: 1,4-Difluorobenzene	96.0	%	11/17/2020	ALS
Acetone	<0.050	mg/L	11/17/2020	ALS
Benzene	<0.00050	mg/L	11/17/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/17/2020	ALS
Bromoform	<0.0010	mg/L	11/17/2020	ALS
Bromomethane	<0.001	mg/L	11/17/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/17/2020	ALS
Chloroethane	<0.001	mg/L	11/17/2020	ALS
Chloroform	<0.00050	mg/L	11/17/2020	ALS
Chloromethane	<0.005	mg/L	11/17/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/17/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/17/2020	ALS
Dichloromethane	<0.00500	mg/L	11/17/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/17/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/17/2020	ALS
o-Xylene	<0.0005	mg/L	11/17/2020	ALS
Styrene	<0.0010	mg/L	11/17/2020	ALS
Toluene	<0.00050	mg/L	11/17/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/17/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/17/2020	ALS

Sample No. : 337338
Sample Description : SWQ18-2
Sample Date : November 3, 2020
Sample Received : November 3, 2020
Sample Plan : Ad hoc sample

Test Parameters	Result	Units	Comments	Completed	Lab
Alkalinity by Titration					
Alkalinity, bicarbonate, calculated	453 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, total to pH 4.5	453 ± 2.8%	mg/L		11/6/2020	COW_ASB
Alkalinity, phenolphthalein to pH 8.3	<3.0 ± 2.8%	mg/L		11/6/2020	COW_ASB
Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis					
Ammonia, Low	0.111 ± 16.9%	mg/L		11/8/2020	COW_ASB
Nitrate+Nitrite Nitrogen	0.305 ± 7.8%	mg/L		11/8/2020	COW_ASB
Chloride by Mercuric Thiocyanate Method					
Chloride, dissolved in Water	244 ± 6%	mg/L		11/21/2020	COW_ASB
Sulfate by HACH Method					
Sulfate, dissolved in water	416 ± 10%	mg/L		11/7/2020	COW_ASB
BOD5 Seeded by Automated Method					
Biochemical Oxygen Demand Seeded	<4 ± 15%	mg/L		11/9/2020	COW_ASB
COD by Closed Reflux Method					
Chemical Oxygen Demand	22.0 ± 6.1%	mg/L		11/8/2020	COW_ASB
Conductivity by Electrometric Method					
Specific Conductance at 25 degrees C in water	2220 ± 7.2%	uS		11/4/2020	COW_ASB
pH in Laboratory by Electrometric Method					
pH in water	8.13 ± 0.07 units	units		11/4/2020	COW_ASB
Dissolved Solids by Gravimetric Analysis					
Total Dissolved Solid	1460 ± 6.5%	mg/L		11/5/2020	COW_ASB
Total Suspended Solids by Gravimetric Analysis					
Total Suspended Solids, calculated	77.0	mg/L		11/5/2020	COW_ASB
Total Solids by Gravimetric Analysis					
Total Solid	1540 ± 6.2%	mg/L		11/5/2020	COW_ASB
Dissolved Organic Carbon by High Temperature Combustion					
Dissolved Organic Carbon, as NPOC	4.3 ± 13%	mg/L		11/5/2020	COW_ASB
Total Organic Carbon by High Temperature Combustion					
Total Organic Carbon as NPOC	3.9 ± 13%	mg/L		11/5/2020	COW_ASB
Metals Total in Water by ICP-MS					
Antimony (Sb), total in water	<0.000025 ± 9.2%	mg/L		11/16/2020	COW_ASB
Arsenic (As), total in water	0.000867 ± 8.1%	mg/L		11/16/2020	COW_ASB
Barium (Ba), total in water	0.020656 ± 11.8%	mg/L		11/16/2020	COW_ASB
Beryllium (Be), total in water	<0.00003 ± 16.8%	mg/L		11/16/2020	COW_ASB
Boron (B), total in water	0.42275 ± 24.2%	mg/L		11/16/2020	COW_ASB
Cadmium (Cd), total in water	<0.000007 ± 10.4%	mg/L		11/16/2020	COW_ASB

Metals Total in Water by ICP-MS

Calcium (Ca), total in water	139.59 ± 20.9%	mg/L	11/16/2020	COW_ASB
Chromium (Cr), total in water	0.00037 ± 12.8%	mg/L	11/16/2020	COW_ASB
Copper (Cu), total in water	0.001382 ± 12.1%	mg/L	11/16/2020	COW_ASB
Iron (Fe), total in water	0.10224 ± 9.7%	mg/L	11/16/2020	COW_ASB
Lead (Pb), total in water	<0.000065 ± 8.3%	mg/L	11/16/2020	COW_ASB
Magnesium (Mg), total in water	114.51 ± 10.5%	mg/L	11/16/2020	COW_ASB
Manganese (Mn), total in water	0.00409 ± 11.2%	mg/L	11/16/2020	COW_ASB
Nickel (Ni), total in water	0.001113 ± 12.2%	mg/L	11/16/2020	COW_ASB
Phosphorus (P), total in water	0.0148 ± 4.5%	mg/L	11/16/2020	COW_ASB
Potassium (K), total in water	15.401 ± 18.3%	mg/L	11/16/2020	COW_ASB
Selenium (Se), total in water	0.00266 ± 8.0%	mg/L	11/16/2020	COW_ASB
Sodium (Na), total in water	234.07 ± 9.2%	mg/L	11/16/2020	COW_ASB
Uranium (U), total in water	0.009805 ± 10.0%	mg/L	11/16/2020	COW_ASB
Zinc (Zn), total in water	0.00324 ± 10.7%	mg/L	11/16/2020	COW_ASB

Hardness, Calcium & Total by Calculation

Calcium Hardness, calculated in water	349	mg/L	11/17/2020	COW_ASB
Total Hardness, calculated in water	820	mg/L	11/17/2020	COW_ASB

Turbidity in Laboratory by Nephelometric Method

Turbidity in water	8.22 ± 4.4%	NTU	11/4/2020	COW_ASB
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Chloride in Water by IC (Low Level)

Chloride in water by IC (Low Level)	303.000	mg/L	11/17/2020	ALS
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Sulfate in Water by IC

Sulfate in water by IC	458.00	mg/L	11/17/2020	ALS
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Chromium +6

Chromium +6 Hexavalent in water	<0.00050	mg/L	11/17/2020	ALS
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Mercury in Water

Mercury (Hg) total in water	<0.0000050	mg/L	11/17/2020	ALS
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Phenol (4AAP)

Phenols (4AAP) in water	0.003	mg/L	11/17/2020	ALS
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Total Trihalomethanes (THMs)

Total Trihalomethanes (THMs)	<0.0013	mg/L	11/17/2020	ALS
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Fecal Coliform by MPN QT97

Fecal Coliform by QT97	3	MPN/100mL	11/17/2020	ALS
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Total Coliform and E.coli QT97

Escherichia Coliform by QT97	2	MPN/100mL	11/17/2020	ALS
Total Coliforms by QT97	613	MPN/100mL	11/17/2020	ALS

Total Nitrogen by High Temperature Combustion

Total Nitrogen	<0.2 ± 15%	mg/L	11/5/2020	COW_ASB
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Total Kjeldahl Nitrogen Calculated

Total Kjeldahl Nitrogen, calculated	<0.20	mg/L	11/5/2020	COW_ASB
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VOC plus F1 by GCMS

VOC plus F1 by GCMS

1,1,1-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,1,2-Trichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dibromoethane	<0.0010	mg/L	11/17/2020	ALS
1,2-Dichlorobenzene	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloroethane	<0.00050	mg/L	11/17/2020	ALS
1,2-Dichloropropane	<0.0010	mg/L	11/17/2020	ALS
1,3-Dichlorobenzene	<0.0010	mg/L	11/17/2020	ALS
1,4-Dichlorobenzene	<0.00100	mg/L	11/17/2020	ALS
Surrogate: 1,4-Difluorobenzene	95.9	%	11/17/2020	ALS
Acetone	<0.050	mg/L	11/17/2020	ALS
Benzene	<0.00050	mg/L	11/17/2020	ALS
Bromodichloromethane	<0.00050	mg/L	11/17/2020	ALS
Bromoform	<0.0010	mg/L	11/17/2020	ALS
Bromomethane	<0.001	mg/L	11/17/2020	ALS
Chlorobenzene	<0.0010	mg/L	11/17/2020	ALS
Chloroethane	<0.001	mg/L	11/17/2020	ALS
Chloroform	<0.00050	mg/L	11/17/2020	ALS
Chloromethane	<0.005	mg/L	11/17/2020	ALS
cis-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Dibromochloromethane	<0.0005	mg/L	11/17/2020	ALS
Dichlorodifluoromethane	<0.001	mg/L	11/17/2020	ALS
Dichloromethane	<0.00500	mg/L	11/17/2020	ALS
Ethylbenzene	<0.00050	mg/L	11/17/2020	ALS
Methyltertbutylether [MTBE]	<0.0005	mg/L	11/17/2020	ALS
o-Xylene	<0.0005	mg/L	11/17/2020	ALS
Styrene	<0.0010	mg/L	11/17/2020	ALS
Toluene	<0.00050	mg/L	11/17/2020	ALS
trans-1,3-Dichloropropene	<0.0010	mg/L	11/17/2020	ALS
Trichlorofluoromethane	<0.0010	mg/L	11/17/2020	ALS
Vinyl Chloride	<0.0005	mg/L	11/17/2020	ALS

Reference Information

The Analytical Services Branch is accredited by CALA in accordance with ISO 17025 standards for specific tests.

Accredited Test Methods Used :**Test Method**

Alkalinity by Titration
 Ammonia, Nitrogen and Phosphorus by Flow Injection Analysis
 BOD5 Seeded by Automated Method
 COD by Closed Reflux Method
 Conductivity by Electrometric Method
 Dissolved Organic Carbon by High Temperature Combustion
 Dissolved Solids by Gravimetric Analysis

Reference Method

Modified from SM 2320 B. Titration Method
 Modified from SM 4500-NH3 H. NO3 I & P G. Flow Injection Analysis
 Modified from SM 5210 B. 5-Day BOD Test
 Modified from SM 5220 D. Closed Reflux, Colorimetric Method
 Modified from SM 2510 B. Laboratory Measurement
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 C. Total Dissolved Solids Dried at 180°C

Accredited Test Methods Used :

Test Method

Hardness, Calcium & Total by Calculation
 Metals Total in Water by ICP-MS
 pH in Laboratory by Electrometric Method
 Total Kjeldahl Nitrogen Calculated

 Total Nitrogen by High Temperature Combustion
 Total Organic Carbon by High Temperature Combustion
 Total Solids by Gravimetric Analysis
 Total Suspended Solids by Gravimetric Analysis
 Turbidity in Laboratory by Nephelometric Method

Reference Method

Calculated from EPA Methods 200.8
 Modified from EPA Methods 200.8
 Modified from SM 4500 H+B (Electrometric Method)
 Calculated from SM 5310 B. High Temperature Combustion and SM 4500-NO3 I. Flow Injection Analysis
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 5310 B. High Temperature Combustion
 Modified from SM 2540 B. Total Solids Dried at 103-105°C
 Modified from SM 2540 D. Total Suspended Solids Dried at 103-105°C
 Modified from SM 2130 A. Turbidity & 2130 B. Nephelometric Method

Additional Test Methods Used :

Test Method

Chloride by Mercuric Thiocyanate Method
 Sulfate by HACH Method

Reference Method

Modified from SM 4500Cl-G Mercuric Thiocyanate & HACH Method 8113
 Modified from HACH Method 8051, SulfaVer 4, & SM 4500-SO4-2 E. Turbidimetric

Laboratories :

ALS : ALS Canada Ltd (ALS Environmental), 1329 Niakwa Road, Winnipeg, MB R2J 3T4
 COW_ASB : City of Winnipeg Main Laboratory at NEWPCC, 2230 Main Street, Winnipeg, MB R2V 4T8

Additional Comments :

- 1) A quality control report can be provided upon request. These reports may contain quality control results from other samples not included in this test report.
- 2) Analytical Services Branch test methods may incorporate modifications from specified reference methods to improve performance.
- 3) For subcontracted testing, the certificate of analysis can be provided upon request.
- 4) Opinions and/or interpretations expressed in this report are outside the scope of this laboratory's accreditation.

----- **END OF REPORT** -----