

Memo



To: Kristal Harman, Director – Manitoba Environment, Climate and Parks (MECP)

From: Amir A. Iravani – Dillon Consulting Limited (Dillon)
Katie Whyte – Dillon

cc: Zac Moorhead – Dillon
Robert Hochkievich – Dillon
Christine Cusack – Dillon
Siobhan Burland Ross – Environmental Approvals, MECP
Eshetu Beshada – Environmental Approvals, MECP
Peter Crocker – Environmental Compliance and Enforcement, MECP
Nada Suresh – Environmental Compliance and Enforcement, MECP
Sonja Bridges – Environmental Compliance and Enforcement, MECP
Linda Gammon – Urbanmine Inc.

Date: September 16, 2022

Subject: Urbanmine Noise Monitoring Report #2 – Responses to MECP Comments

Our File: 22-4062

1. The raw monitoring data for Locations 1, 2 and 3 must be provided using the same format shown in Appendix A of the Urbanmine Ambient Noise Monitoring Report #1.

Relevant files are uploaded to Dillon ownCloud for the MECP to download.

2. A digital copy of the raw data for Locations 1, 2, and 3 must be submitted in a excel spreadsheet using the same format shown in Appendix A of the Urbanmine Ambient Noise Monitoring Report #1.

Relevant files are uploaded to Dillon ownCloud for the MECP to download.

3. Table 1 in the report must be presented in the same format as presented in Item 3 of the Urbanmine Ambient Noise Monitoring Report #1 Response Memo dated April 21, 2022.

Please see attached.

4. A site activity log outlining what equipment was in operation at Urbanmine during the monitoring period must be provided and included in the discussion to determine the effectiveness of the noise mitigation measures implemented at the development.

With the exception of indoor non-ferrous line all other equipment were operational during the monitoring period, with the exception of temporary downtime for equipment listed in the table below.

Noise Monitoring		Equipment Not Operating
Date	Time	
06-May-22	11:00:00	Sierra Shear
06-May-22	12:00:00	Sierra Shear
06-May-22	13:00:00	Sierra Shear
06-May-22	14:00:00	Sierra Shear
06-May-22	15:00:00	Sierra Shear
06-May-22	16:00:00	Sierra Shear
06-May-22	17:00:00	Sierra Shear
16-May-22	7:00:00	Sierra Shear
16-May-22	8:00:00	Sierra Shear
16-May-22	9:00:00	Sierra Shear
16-May-22	10:00:00	Sierra Shear
16-May-22	11:00:00	Sierra Shear
16-May-22	12:00:00	Sierra Shear
16-May-22	13:00:00	Sierra Shear
16-May-22	14:00:00	Sierra Shear
16-May-22	15:00:00	Sierra Shear
16-May-22	16:00:00	Sierra Shear
16-May-22	17:00:00	Sierra Shear
17-May-22	8:00:00	Bano Ferrous Line
17-May-22	9:00:00	Bano Ferrous Line

5. This report is intended to assess and determine the noise impact created by various activities of the Urbanmine facility, the monitoring report must report noise levels exceeding the 55 decibel Leq (hourly) that are logged by the monitoring devices and that can be directly attributed to Urbanmine's activities.

Audio files can be provided to the MECP for review. With the exception of scattered and random short-duration (i.e., less than one minute) noise emissions associated with material handling (e.g., metal parts dropping) no other noise heard on the audio files can be distinctly attributed to Urbanmine activities. This is also indicative of the data that was measured during periods that Urbanmine was not operational (i.e., after 5:00 pm, evenings/nighttime and weekend).

6. The report must include a detailed discussion on how specific wind and/or weather conditions documented during the monitoring period effects noise propagated from the Urbanmine site and how it impacts the off site receptors.

Discussions provided in Section 4.0 of the report provide the expected impact of wind speed/wind direction on the noise impact at the monitoring locations for relevant monitoring periods.

7. The report must identify the sources of concern and operations involving high noise emitters of the Urbanmine facility and make recommendations to reduce or eliminate those noise concerns.

This comment was discussed and responded to during Report #1 review. Please see response to comment #5 (above). Source specific noise measurements will be conducted at the site after all sources are fully commissioned. The measured noise levels will be used to update the model and the associated noise abatement measures. This comment can be better addressed at that stage.

Noise Monitoring		Leq(A) - Hourly	Location 1: Comment (Audio File Info)
Date	Time	ML #1	
06-May-22	11:00:00	62.3	People talking, Truck
06-May-22	12:00:00	63.4	Metal clinging, Truck, Machinery (vac truck and/or rail related)
06-May-22	13:00:00	64.8	Geese, Machinery (vac truck and/or rail related), Truck
06-May-22	17:00:00	65.7	Geese, airplane
06-May-22	18:00:00	65.8	Geese
07-May-22	5:00:00	58.6	Geese, airplane
07-May-22	6:00:00	59.5	Faint audio - no distinguishable noise source is heard
07-May-22	7:00:00	60.8	Geese, traffic, airplane
07-May-22	8:00:00	62.9	Geese, airplane, motorcycles
07-May-22	9:00:00	64.3	Geese, motorcycles
07-May-22	10:00:00	64.7	Faint audio - no distinguishable noise source is heard
07-May-22	11:00:00	64.9	Faint audio - no distinguishable noise source is heard
07-May-22	12:00:00	64.1	Faint audio - no distinguishable noise source is heard
07-May-22	13:00:00	64	Faint audio - no distinguishable noise source is heard other than geese
07-May-22	14:00:00	64.4	Traffic, geese, voices
07-May-22	15:00:00	65.4	Traffic
07-May-22	16:00:00	65	Airplane, dog barking
07-May-22	17:00:00	65.2	Traffic, geese
07-May-22	18:00:00	65.8	Traffic, geese, motorcycle
07-May-22	19:00:00	64.4	Geese
10-May-22	9:00:00	59.4	metal Truck, geese, airplane
10-May-22	10:00:00	59.3	metals clinging
10-May-22	11:00:00	59.1	metal clinging, Truck, geese, airplanes
10-May-22	12:00:00	59.6	metals clinging, Truck, Machinery (vac truck and/or rail related)
10-May-22	13:00:00	60	metals clinging, geese, motorcycle, Machinery (vac truck and/or rail related)
10-May-22	14:00:00	59.6	metals clinging, geese, Machinery (vac truck and/or rail related)
10-May-22	15:00:00	61.1	metal clinging, Truck, motorcycle, Machinery (vac truck and/or rail related)
10-May-22	16:00:00	60.8	metals clinging, geese, Machinery (vac truck and/or rail related)
10-May-22	17:00:00	62	metal clinging, people talking, traffic
10-May-22	18:00:00	63.4	Traffic, geese, airplane
11-May-22	1:00:00	65.4	Faint audio - no distinguishable noise source is heard
11-May-22	2:00:00	60.9	Faint audio - no distinguishable noise source is heard
11-May-22	3:00:00	59.8	Faint audio - no distinguishable noise source is heard
11-May-22	4:00:00	58.9	Train
11-May-22	5:00:00	57.3	Faint audio - no distinguishable noise source is heard (some geese)
11-May-22	6:00:00	56.7	Faint audio - no distinguishable noise source is heard (some geese)
11-May-22	8:00:00	55.5	metal clinging, birds, geese
11-May-22	9:00:00	55.3	metal clinging, Truck, metals clinging, geese
11-May-22	10:00:00	56.8	metal clinging, engine start up, airplane
11-May-22	11:00:00	56.6	metal clinging, engine start up, airplane
11-May-22	12:00:00	57.5	metal clinging, Truck, people talking, train
11-May-22	13:00:00	57.3	metal clinging, metals clinging, train, birds
11-May-22	15:00:00	57.5	metal clinging, Machinery (vac truck and/or rail related), geese
11-May-22	16:00:00	58.4	metals clinging, engine start up, geese, motorcycle
11-May-22	17:00:00	55.5	Geese, machinery (vac truck and/or rail related)
11-May-22	18:00:00	56	Geese, motorcycle
11-May-22	19:00:00	56.3	Truck, sharp beeps, geese
11-May-22	20:00:00	58.3	Geese, airplane
11-May-22	21:00:00	62.4	Geese, Truck, motorcycle
11-May-22	22:00:00	63.1	Faint audio - no distinguishable noise source is heard
11-May-22	23:00:00	61.7	Faint audio - no distinguishable noise source is heard
12-May-22	0:00:00	59.8	Faint audio - no distinguishable noise source is heard
12-May-22	1:00:00	58.8	Faint audio - no distinguishable noise source is heard (some geese)
12-May-22	2:00:00	57.2	Faint audio - no distinguishable noise source is heard
13-May-22	10:00:00	59	metal clinging, Truck, geese, Wind
13-May-22	11:00:00	56.3	Faint audio - no distinguishable noise source is heard
13-May-22	12:00:00	57.7	Faint audio - no distinguishable noise source is heard (some geese)
13-May-22	13:00:00	58.3	Faint audio - no distinguishable noise source is heard
13-May-22	14:00:00	59.4	Faint audio - no distinguishable noise source is heard
13-May-22	15:00:00	57.9	metal clinging, geese
13-May-22	16:00:00	60.2	Wind, geese
13-May-22	17:00:00	60.4	Wind
13-May-22	18:00:00	63.5	Wind, motorcycle
13-May-22	19:00:00	62	Wind
13-May-22	20:00:00	61.3	Wind, birds, geese
13-May-22	21:00:00	68.2	Wind, geese, dog barking, clanging sounds, vehicle beeping
13-May-22	22:00:00	62	Wind
13-May-22	23:00:00	62.3	Wind
14-May-22	0:00:00	62.6	Faint audio - no distinguishable noise source is heard

Item No. 3 - Attachment - Summary Table

Noise Monitoring		Leq(A) - Hourly	Location 1: Comment (Audio File Info)
Date	Time	ML #1	
14-May-22	1:00:00	64.3	Faint audio - no distinguishable noise source is heard
14-May-22	2:00:00	57.8	Faint audio - no distinguishable noise source is heard
14-May-22	3:00:00	55.1	Faint audio - no distinguishable noise source is heard (some geese)
14-May-22	5:00:00	57.3	Faint audio - no distinguishable noise source is heard (some geese)
14-May-22	6:00:00	58.2	Wind, geese
14-May-22	7:00:00	57	Wind
14-May-22	8:00:00	57.2	Wind, geese, airplane
14-May-22	9:00:00	57.1	Geese, traffic
14-May-22	10:00:00	57	Faint audio - no distinguishable noise source is heard (some geese)
14-May-22	11:00:00	57.6	Faint audio - no distinguishable noise source is heard (some geese)
14-May-22	12:00:00	57.3	Faint audio - no distinguishable noise source is heard
14-May-22	13:00:00	56	Faint audio - no distinguishable noise source is heard
14-May-22	14:00:00	58	Geese, traffic
14-May-22	15:00:00	57.4	Faint audio - no distinguishable noise source is heard
14-May-22	16:00:00	55.9	Traffic
14-May-22	17:00:00	58.4	Faint audio - no distinguishable noise source is heard
14-May-22	18:00:00	57.1	Geese, traffic
14-May-22	19:00:00	56.4	Faint audio - no distinguishable noise source is heard (some geese)
14-May-22	21:00:00	58.5	Faint audio - no distinguishable noise source is heard
14-May-22	22:00:00	57	Faint audio - no distinguishable noise source is heard
14-May-22	23:00:00	55.8	Faint audio - no distinguishable noise source is heard
15-May-22	6:00:00	55.2	Faint audio - no distinguishable noise source is heard (some geese)
15-May-22	10:00:00	57.2	Faint audio - no distinguishable noise source is heard
15-May-22	11:00:00	55.8	Faint audio - no distinguishable noise source is heard
15-May-22	12:00:00	57	Faint audio - no distinguishable noise source is heard
15-May-22	13:00:00	56.4	Wind, geese, motorcycle
15-May-22	14:00:00	56.3	Geese, motorcycle
15-May-22	15:00:00	58.6	Geese, motorcycle
15-May-22	16:00:00	58	Traffic, geese
15-May-22	17:00:00	58.8	Faint audio - no distinguishable noise source is heard (some geese)
15-May-22	18:00:00	59.8	Faint audio - no distinguishable noise source is heard
15-May-22	19:00:00	62.6	Dog barking, geese,
15-May-22	20:00:00	64.7	Faint audio - no distinguishable noise source is heard (some geese)
15-May-22	21:00:00	66.4	Geese, train
16-May-22	1:00:00	63.3	Airplane
16-May-22	2:00:00	63.1	Faint audio - no distinguishable noise source is heard
16-May-22	3:00:00	62	Faint audio - no distinguishable noise source is heard
16-May-22	4:00:00	61.1	Faint audio - no distinguishable noise source is heard
16-May-22	5:00:00	57	Faint audio - no distinguishable noise source is heard (some geese)
16-May-22	6:00:00	56.4	Geese, Machinery (vac truck and/or rail related), clanking
16-May-22	7:00:00	59.4	metal clinging, Machinery (vac truck and/or rail related), geese
16-May-22	8:00:00	61.3	metal clinging, Machinery (vac truck and/or rail related), Truck, geese
16-May-22	9:00:00	63.2	sirens, Truck
16-May-22	10:00:00	64.6	Metal clinging, truck, machinery (vac truck and/or rail related)
16-May-22	11:00:00	60.2	Truck, metal clinging, geese
16-May-22	12:00:00	62.7	metal clinging, Truck, train, Machinery (vac truck and/or rail related), geese
16-May-22	13:00:00	60.9	metal clinging, Truck, train, geese
16-May-22	14:00:00	59	metal clinging, Truck, geese
16-May-22	15:00:00	57	metal clinging
16-May-22	16:00:00	58.3	metal clinging, Truck
16-May-22	17:00:00	58.7	Faint audio - no distinguishable noise source is heard
16-May-22	18:00:00	59.2	Faint audio - no distinguishable noise source is heard
16-May-22	19:00:00	60.8	Dog barking, geese
16-May-22	20:00:00	61.6	Geese
16-May-22	21:00:00	64.3	Faint audio - no distinguishable noise source is heard
17-May-22	0:00:00	66.9	Geese
17-May-22	1:00:00	65.5	Geese
17-May-22	2:00:00	63.5	Geese
17-May-22	3:00:00	60.5	Geese
17-May-22	4:00:00	60.1	Geese
17-May-22	5:00:00	55.6	Geese, traffic
17-May-22	8:00:00	55.7	Machinery (vac truck and/or rail related), dog barking, geese, birds
17-May-22	9:00:00	56.9	Machinery (vac truck and/or rail related), geese

Noise Monitoring		Leq(A)-Hourly	Location 2: Comment (Audio File Info)
Date	Time	ML #2	
07-May-22	19:00:00	57.9	N/A
10-May-22	8:00:00	57.6	metals clinging, impulsive bangs, truck beeping, machinery operation (vac truck and/or rail related), birds
10-May-22	9:00:00	56.5	metals clinging, truck beeping
10-May-22	10:00:00	56.8	truck beeping, train
10-May-22	11:00:00	57	metal clinging
10-May-22	12:00:00	57.4	truck beeping, metals clinging, birds
10-May-22	13:00:00	56.9	clinging metals, machinery operation (vac truck and/or rail related), truck beeping, birds
10-May-22	14:00:00	56.3	truck beeping, metals clinging, geese
10-May-22	15:00:00	55.7	metal clinging
10-May-22	18:00:00	57.8	Home construction (drilling), machinery operation (vac truck and/or rail related), birds, motorcycle, people talking
10-May-22	20:00:00	55.2	machinery operation (vac truck and/or rail related), birds, train, motorcycle
10-May-22	23:00:00	57.2	machinery operation (vac truck and/or rail related), train
11-May-22	0:00:00	59.7	Train, horns
11-May-22	1:00:00	57.5	Train
11-May-22	14:00:00	57.7	metal clinging, birds
11-May-22	18:00:00	67.5	Home construction (dropping and moving materials), machinery operation (vac truck and/or rail related), airplane
11-May-22	19:00:00	59.4	Home construction (moving material, hammering), people talking, birds
13-May-22	9:00:00	58	metal clinging, truck beeping, dog barking, birds, wind
13-May-22	10:00:00	57.7	wind, sirens, machinery operation (vac truck and/or rail related), birds
13-May-22	11:00:00	58.3	wind, birds
13-May-22	12:00:00	57.4	wind, metal clinging, truck beeping, birds
13-May-22	13:00:00	58	wind, metal clinging, metals clinging, truck beeping, birds
13-May-22	14:00:00	57.6	wind, metal clinging, geese
13-May-22	15:00:00	57.8	wind, metal clinging
13-May-22	16:00:00	59.8	wind, metal clinging, geese
13-May-22	17:00:00	60.1	wind, airplane, motorcycle, birds
13-May-22	18:00:00	59.1	wind, dog barking, geese
13-May-22	19:00:00	56.9	wind, birds
13-May-22	20:00:00	56.7	wind, birds, airplane
13-May-22	21:00:00	61.7	wind, birds, metal clinging, machinery operation
13-May-22	22:00:00	56.1	wind, sirens, machinery operation (vac truck and/or rail related)
13-May-22	23:00:00	55.3	Faint audio - no distinguishable noise source is heard
14-May-22	0:00:00	57.2	wind
14-May-22	14:00:00	59	Birds, geese, sirens
15-May-22	9:00:00	55.9	Home construction, traffic, geese, people talking
15-May-22	10:00:00	59.1	Home construction, traffic, people talking
15-May-22	13:00:00	55.8	Geese, traffic, wind
15-May-22	18:00:00	58.1	Materials clanging, people talking, truck beeping
15-May-22	19:00:00	62.6	People talking, dogs barking, birds
15-May-22	20:00:00	59.4	Geese, traffic, train
15-May-22	21:00:00	57	Geese, train
16-May-22	9:00:00	61.2	metals clinging, machinery operation (vac truck and/or rail related), birds