

IMMINGHAM EASTERN RO-RO TERMINAL



Environmental Statement: Volume 3
Appendix 14.1: Sound Monitoring Survey
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APFP Regulations 2009 – Regulation 5(2)(a) and 5(2)(e)
PINS Reference – TR030007

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Appendix 14.1

Sound Monitoring Surveys Information

Monitoring location 1(M1) Kings Road

14.1.1 Table 1 below provides information on the survey location and conditions.

Table 1: Location M1 survey location details

Location M1	Description	
	Day	Night
Location description and OS grid reference (Easting/Northing)	Opposite 54 Kings Road, Immingham ///daisy.dunk.feathers 519294,415136	
Monitoring date and time	a) 17/11/2021 at 13:12-14:12 b) 24/03/2022 at 12:30-15:30; 18:35-21:35 c) 25/03/2022 at 07:27-11:30 d) 03/05/2022 at 11:34-12:34; 15:35-18:35	e) 17/11/2021 at 03:14-03:44 f) 22/04/2022 at 21:04 – 23/04/2022 07:04
Monitoring height above ground	1.4 m	
Distance to nearest building facade	Greater than 3.5 m	
Average wind speeds (m/s)	a) 2 b) No wind perceived c) No wind perceived d) 2.7	e) No wind perceived f) 4.4
Wind direction	a) E b) No wind perceived c) No wind perceived d) E	e) No wind perceived f) NE
Temperature (°C)	a) 12 b) 18 c) 6 d) 11	e) 8 f) 9
Cloud coverage	a) 7/8 b) 0/8 c) 0/8 d) 6/8	e) 0/8 f) 6/8
Sound Level Meter and Serial No.	a) Norsonic Nor 140 s/n 1403077 b) Rion Model NL-52 s/n 01021278	e) Norsonic Nor 140 s/n 1403077 f) Rion Model NL-52 s/n 242750

Location M1	Description	
	Day	Night
	c) Rion Model NL-52 s/n 01021278 d) Norsonic Nor 140 s/n 1403077	
Field Calibrator and Serial No.	a), b), c) d) Brüel & Kjær Model 4231 s/n 2217877	e), f) Brüel & Kjær Model 4231 s/n 2217877
Description of the sound climate	a) Dominated by road traffic noise, mainly heavy goods vehicles. b) Rumble of HGV cargo. Road traffic; Traffic and industrial hum c) Road traffic. d) Road Traffic, HGV	e) Dominated by traffic noise. Additional noise source due to loading and unloading of lorries. f) Road traffic.

Figures 1 and 2 below shows photographs of the monitoring location.



Figure 1: Location M1 on Kings Road looking towards the North West (Day).



Figure 2: Location M1 on Kings Road (Night).

Monitoring location 2 (M2) Queens Road

14.1.2 Table 2 below provides information on the survey location and conditions.

Table 2: Location M2 survey location details

Location M2	Description	
	Day	Night
Location description and OS grid reference (Easting/Northing)	Opposite Queens Road Café, Queens Road, Immingham ///overjoyed.dented.chest 520026,414828	
Monitoring date and time	a) 17/11/2021 at 12:41-15:41 b) 24/03/2022 at 12:10-15:40; 18:23-21:47. c) 25/03/2022 at 07:17-11:42. d) 03/05/2022 at 11:34-12:34; 15:25-18:25	e) 17/11/2021 at 04:02- 04:32 f) 22/04/2022 at 21:00- 07:00
Monitoring height above ground	1.4 m	
Distance to nearest building facade	Greater than 3.5 m	
Average wind speeds (m/s)	a) 2.0 b) 2.6 c) 1.3 d) 4.4	e) No wind perceived f) No wind perceived
Wind direction	a) E b) SE c) SE d) E	e) No wind perceived f) No wind perceived
Temperature (°C)	a) 11 b) 17 c) 17 d) 11	e) 8 f) 9
Cloud coverage	a) 2/8 b) 0/8 c) 0/8 d) 7/8	e) 0/8 f) 0/8
Sound Level Meter and Serial No.	a) Norsonic Nor140 s/n 1403909 b) Rion Model NL-52 s/n 386762. c) Rion Model NL-52 s/n 386762. d) Rion Model NL-52 s/n 386766	e) Norsonic Nor140 s/n 1403909 f) Rion Model NL-52 s/n 00909493
Field Calibrator and Serial No.	a) Norsonic Type 1251 s/n 34393	e) Norsonic Type 1251 s/n 34393

Location M2	Description	
	Day	Night
	b) Brüel & Kjær Model 4231 s/n 3005464 c) Brüel & Kjær Model 4231 s/n 3005464 d) Brüel & Kjær Model 4231 s/n 2217877	f) Brüel & Kjær Model 4231 s/n 2217877
Description of the sound climate	a) Dominant by road traffic noise with occasional factory noises (Windsor Materials Handling). b) Rumble of HGV cargo, road traffic. c) Rumble of HGV cargo, road traffic. d) Road traffic noise, HGV.	e) Dominant source is a building to the North West with a perceivable hum as well as traffic from Queen's Road and distant traffic. f) Queens road traffic.

Figures 3 and 4 below shows photographs of the monitoring location.



Figure 3: Location M2 Queens Road looking towards the South-West (Night).



Figure 4: Location M2 Queens Road looking towards the South West (Day).

Monitoring location 3 (M3) South Killingholme

14.1.3 Table 3 below provides information on the survey location and conditions.

Table 3: Location M3 survey location, conditions

Location M3	Description	
	Day	Night
Location description and OS grid reference (Easting/Northing)	Number 2, Humber Road South Killingholme ///expiring.wiggly.crumble 515546,416147	
Monitoring date and time	16/11/2021 at 11:15-14:15	17/11/2021 at 02:20-02:50
Monitoring height above ground	1.4 m	
Distance to nearest building facade	Greater than 3.5 m	
Average wind speeds (m/s)	No wind perceived	No wind perceived
Wind direction	No wind perceived	No wind perceived
Temperature (°C)	16	8
Cloud coverage	8/8	2/8
Sound Level Meter and Serial No.	Norsonic Nor140 s/n 1403909	
Field Calibrator and Serial No.	Norsonic Type 1251 s/n 34393	
Description of the sound climate	Dominated by road traffic noise from A160, contribution by the flaming from the chimney nearby.	Dominated by the road traffic noise from A160, contribution by the flaming from the chimney becomes more noticeable.

Figures 5, 6 and 7 below shows photographs of the monitoring location.



Figure 5: Location M3 looking towards A160, South Killingholme (Day)



Figure 6: Location M3 looking towards A160, South Killingholme (Day)



Figure 7: Location M3 South Killingholme looking toward chimney flaring (middle left light source) (Night)

Monitoring location 4 (M4) PAM Building

14.1.4 Table 4 below provides information on the survey location and conditions.

Table 4: Location M4 survey location, conditions

Location M4	Description	
	On Start	At End
Location description and OS grid reference (Easting/Northing)	PAM Building (also representative of PK Construction office) ///scooter.proved.tunes 520599,415379	
Monitoring date and time	07/07/2022 at 15:45	13/07/2022 at 13:15
Monitoring height above ground	1.5 m	
Distance to nearest building facade	Greater than 3.5 m	
Average wind speeds (m/s)	1.0	1.6
Wind direction	SE	NE
Temperature (°C)	24	27
Cloud coverage	0/8	0/8
Sound Level Meter and Serial No.	Rion NL-52 s/n: 00386762	
Field Calibrator and Serial No.	Brüel & Kjær Model 4231 s/n: 2217877	
Description of the sound climate	Dominated by passbys on Robinson Road including vehicles passing over the level crossing. Other sources include distance industrial processes.	

Figures 8 and 9 show photographs taken at the monitoring location.



Figure 8: Location M4 looking towards the PAM Building



Figure 9: Location M4 looking towards Robinson Road

Monitoring location 5 (M5) Nippon Gas

14.1.5 Table 5 below provides information on the survey location and conditions.

Table 5: Location M5 survey location details

Location M6	Description	
	On Start	At End
Location description and OS grid reference (Easting/Northing)	Near Nippon Gas office building ///activism.pocket.breakaway 520154,415362	
Monitoring date and time	07/07/2022 at 16:45	13/07/2022 at 13:30
Monitoring height above ground	1.5 m	
Distance to nearest building facade	Greater than 3.5 m	
Average wind speeds (m/s)	1.0	1.6
Wind direction	SE	NE
Temperature (°C)	24	27
Cloud coverage	0/8	0/8
Sound Level Meter and Serial No.	Rion NL-52 s/n: 01021279	
Field Calibrator and Serial No.	Brüel & Kjær Model 4231 s/n: 2217877	
Description of the sound climate	Dominated by nearby industrial processes. Other sources include road traffic pass-bys.	

Figures 10 and 11 show photographs taken at the monitoring location.



Figure 10: Location M5 looking towards Gresley Way.



Figure 11: Location M5 looking towards Nippon Gases offices.

Monitoring location 6 (M6) ecological receptors Humber Estuary

14.1.6 Table 6 below provides information on the survey location and conditions.

Table 6: Location M6 survey location details

Location M6	Description	
	On Start	At End
Location description and OS grid reference (Easting/Northing)	On northern boundary of IERRT site, representative of the ecological receptors on the mudflats on the Humber Estuary ///agreeing.sideboard.torso 520715,415853	
Monitoring date and time	07/07/2022 at 16:15	13/07/2022 at 14:30
Monitoring height above ground	1.5 m	
Distance to nearest building facade	Greater than 3.5 m	
Wind speeds (m/s)	1.0	1.6
Wind direction	SE	NE
Temperature (°C)	24	27
Cloud coverage	0/8	0/8
Sound Level Meter and Serial No.	Rion NL-52 s/n: 01021278	
Field Calibrator and Serial No.	Brüel & Kjær Model 4231 s/n: 2217877	
Description of the sound climate	Dominated by stockpiling, storage and distribution of gravel. Other sources include road pass-bys and forklift manoeuvres.	Dominated by stockpiling, storage and distribution of gravel. Other sources include squeal from vehicle hydraulic systems, continuous hum from berthed vessels.

Figures 12 and 13 show photographs taken at the monitoring location.



Figure 12: Location M6 looking towards the IERRT project.



Figure 13: Location M6 looking towards nearby stockpiling, storage and distribution of gravel.

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