

NCIA Regional Noise Management Plan (RNMP)

Annual Report (covering the 2016 Calendar Year)

Prepared for the

Albert Energy Regulator (AER)

And

The Alberta Utilities Commission (AUC)

August 2017

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NCIA Regional Noise Management Plan (RNMP)

Annual Report to the Alberta Energy Regulator (AER) and

The Alberta Utilities Commission (AUC)

2017 (covering the calendar year 2016)

1 Executive Summary

NCIA completed field validation measurements for the Regional Noise Model (RNM) in 2016 (conducted by ACI Acoustical Consultants Inc.). These results are compared to the June 2015 Regional Noise Model (see Section 3).

Measured versus modeled results for the 2016 data are shown in Table 5 and Figure 2. Figure 3 and Figure 4 split the data into the two time periods representing the 2012 RNM and the 2015 RNM to make it easier to see the comparisons of the measured data to the predicted ranges of the 2012 RNM and the 2015 RNM. A discussion of the most recent results is presented in Section 4 of this report.

Figure 5 shows trend analysis that was completed for any location that had at least 4 years or more of data. It is evident from this Figure that there are no significant trends (either up or down) in the sound levels of the measured data over time when one considers the variability created by the meteorological conditions. These are best identified by the upper and lower ranges found in Figures 2 to 4.

- 2 AER Audits of NCIA Member Facilities
 - No Audits by AER were conducted in 2016.
- 3 Regional Noise Model Update
 - The next update to the Regional Noise Model is planned for 2018.
 - Tables 1 to 3 are reproduced from the last annual report and show the current state of the site level models that make up the 2015 NCIA Regional Noise Model.



Table 1

Site Noise Models in Regional Noise Model Prepared by SLR

Company	Plant / Unit	Model Date	
Agrium	Redwater Fertilizer Operations Plant	December 7, 2001 & January 21, 2008	
Air Liquide	Cogeneration Unit	June, 1998	
Cenovus	Bruderheim Operations	March, 2010	
Dow Chemical Canada	Ethylene; Fractionator; Polyethylene I, II & III; Ethylene Oxide / Ethylene Glycol; Ethane Storage; Power & Utilities; Cogeneration plants	December 15, 2014	
Maxim Power Corp. (non NCIA member)	Deerland Peaking Station	July, 2008	
North West Redwater Partnership	Sturgeon Refinery (3 units)	November 22, 2007	
Pembina Pipeline	Redwater Fractionation & Storage Facility	January 17, 2003	
Shell Canada	Refinery; Upgrader (base plant and expansion plant); Cogen	September, 2014	
Shell Chemicals	Styrene; MEG	March 19, 2009	
Sherritt Fort Saskatchewan Integrated Site:			
Agrium	Nitrogen production	January 17, 2003	
Corefco	Metal production	February 13, 2006 *	
Sherritt International	Metal production	February 13, 2006	
Oerlikon-Metco	Chemical preparation	February 13, 2006	
Umicore	Metal products	February 13, 2006 *	
Smith & Nephew	Surgical appliances	February 13, 2006 *	
Keyera Fort Saskatchewan	Fractionation and storage	March, 2014	
Plains Midstream	Fractionation and storage	March, 2014	

* integrated into Sherritt model



Site Noise Models in Regional Noise Model Prepared by Others

Company	Plant / Unit	Acoustical Consultant	Model Date
Access Pipelines	Sturgeon Terminal	FFA	July 21, 2010
Value Creation	Oilsands Upgrader	RWDI	May, 2004
Suncor (formerly Petro Canada)	Fort Hills Sturgeon Upgrader	RWDI	September 3, 2008
Pembina Pipeline	Expansion	Stantec	June 27, 2013
Sasol	Gas to Liquids Plant	Stantec / RWDI	May, 2013

Table 3Heartland Plants where Basic Noise Models were Built

Plant / Unit	Process	Data Provided	Model Data	
NCIA MEMBER COMPANIE	S	1	:	
Aux Sable Canada *	Off Gas Plant	Sound Power Levels	September 2, 2010	
Aux Sable Canada *	Extraction Plant	Sound Power Levels	September 2, 2010	
Plains Midstream ¹	Fractionation and Storage Complex	Fence line Measurements	March 2, 2010	
Evonik Canada Inc.	Hydrogen Peroxide Plant	Fenceline Measurements	June 11, 2010	
Keyera Energy	Fractionation and Storage Complex	Fenceline Measurements	March 2, 2011	
Chemtrade Logistics **	Central Service Center	Diagnostic Measurements	September 21, 2010	
Chemtrade Logistics **	Sulfides Facility	Diagnostic Measurements	September 21, 2010	
Praxair Canada Inc.	Air Separation Plant	Fence line Measurements	June 11, 2010	
Praxair Canada Inc.	Carbon Dioxide Plant	Fence line Measurements	June 11, 2010	
Non-Member Companies				
ATCO Midstream	Liquid Extraction Plant	Sound Power Levels	June 23 2011	
Smith & Nephew	Pharmaceuticals	Sound Power Levels	June 23, 2011	

* based on PWL's delivered by the facility's acoustical specialist

** became Chemtrade after 2012 assessment date

1 2012 database replaced with a detailed database in 2015 model update



4 2016 Monitoring results for Regional Noise Model

ACI Acoustical Consultants Inc. (ACI), of Edmonton AB, was retained by the Northeast Capital Industrial Association (NCIA) to conduct an environmental noise survey within Alberta's Industrial Heartland (AIH). The purpose of the study was to conduct noise monitoring for a single 48-hour period at eleven (11) prespecified locations within the AIH. Additional noise monitoring, spanning two (2) 48-hour periods, was conducted at a 12th monitoring location (referred to as Location 12) as an independent control/reference point. The noise monitoring was conducted in support of the NCIA's Regional Noise Management Plan. In addition, the results from the noise monitoring survey will be used to validate the Regional Noise Level Assessment Model (the Regional Noise Model). All noise monitoring procedures and equipment used was in accordance with the requirements of the Alberta Energy Regulator (AER) Directive 038 on Noise Control. Site work was conducted by ACI in July and August, 2016 by P. Froment, B.Sc., P.L.(Eng.).

As part of the study, 48-hour noise monitoring was conducted at a total of thirteen (13) locations throughout the Alberta's Industrial Heartland. It was found that the isolated LeqNight sound levels (both broadband and 1/3 octave band), from at least one (1) over-night period, were similar to those from previous measurements.

The noise levels at most locations consisted of low frequency components with occasional mid/high frequency components that could be attributed to the nearest facility relative to each individual noise monitoring location. Despite the noise being relatively low in frequency, none of the sites indicated any low frequency tonal components. As in previous years, the noise from train passages were again prevalent at all locations and tended to dominate the noise climate as they passed through, particularly when there were train whistles. Though the train passages were not as often subjectively observed during the site visits in comparison to previous years, the isolation analysis indicated a similar number of rail passages when compared to 2015.

Measured versus modeled results are shown in Table 5 and Figures 2-4 below. Focusing on the 2016 results (previous years' results were discussed in previous annual reports available on the NCIA website), there is reasonably good agreement between the measured sound pressure levels and the predicted range of sound pressure levels from the 2015 RNM at locations 2, 3a, 4b, 8c, 9, 11 and 13. For locations 1a, 5 and 10 the model is over predicting the sound pressure levels. For location 6 the model is under predicting the sound pressure levels.

With respect to locations 1a and 10, we know that Sherritt International completed off-site noise monitoring in 2015 that suggested their off-site noise impact may be less than their site model suggests. Additional work is expected to happen in 2017 on this file that may lead to a site noise model update in the future.

For location 4b, we now know that the Shell Scotford model is over predicting noise levels somewhat (based on new on-site measurements for the site model) and that will be corrected in the 2018 Regional Noise Model update.



For location 5, Pembina has made a number of changes on their site and are currently working to update their site noise model. We expect that this discrepancy will decrease once the 2018 RNM update is completed.

For location 6, as we have seen in previous years, the model is under predicting the noise level in this area. The Agrium Redwater site noise model has now been updated and will be incorporated into the 2018 RNM update. We believe that will address the discrepancy at this location.

There are no obvious trends in the measured data to suggest that noise levels in the area are either increasing or decreasing due to industrial operations over time (see Figure 5 below).



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Table 4Monitoring Location Details

	UTM Coordinates			
Location No.	(approximate)		Description	
	Easting (m)	Northing (m)		
1a	355040	5954162	2 m north of 100 Ave, and 520 m northwest of Highway 15 near Mel Martin's Transfer Facility and approximately 550 m southwest of the Agrium Fort Saskatchewan Facility.	
2	358261	5957223	90 m southeast of 125 Street and 1 km north of Highway 15 Near bend in River Road where it becomes 125 Street, between Dow and Keyera facilities.	
За	358353	5959156	6 m east of 125 Street and 220 m north of Petrogas facility. This location was changed from the 2012 noise monitoring location in an effort to better quantify the contributions of the facilities north of the Dow facility.	
4b	361665	5960870	1.2 km south of the south fence line of the Shell Scotford site and 1.6 km east of 130 Street; 490 m south of the entrance to the electrical substation to the northwest.	
5	361777	5964711	200 m north of Township Road 560A and 5 m east of Range Road 215, at 300 m north of the north fence line of the Shell Scotford facility.	
6	364322	5967894	1.0 km north of Township Road 562 and 3 m east of Range Road 213A, 1.6 km East of Agrium Redwater facility.	
7			Not measured in 2016 due to construction activities on North West Redwater Partnership site.	
8c	358880	5965456	1.6 km south of highway 643 (eastbound) and 365 m east of Range Road 221, 30 m north of the northern fence line for the Pembina/InterPipeline facility.	
9	355872	5957574	5 m southwest of the intersection of Lamoureux Drive & Godbout Avenue, 1.3 km northwest of the Dow facility and 1.4 km west of the Keyera facility.	
10	355925	5955818	30 m west of 119 Street and 12 m north of the access road to Agrium Fort Saskatchewan, 750 m northeast of the Agrium facility and 180 m west of the Dow fence line.	
11	358430	5963804	3 m northwest of Intersection of Range Road 221 and Township Road 560, 1.7 km southwest of Pembina/Williams facility.	
12a	368223	5963070	Independent control/reference point. It was located 15 m east of Range Road 211 and 450 m south of Township Road 560. Approximately 1.6 km west of Highway 830 and 2.7 km north of Highway 15.	
13	358667	5970180	3 m east of Range Road 221 and 100 m south of Township Road 564. This location was for background purposes.	

The complete report is included as Appendix 1 of this report.



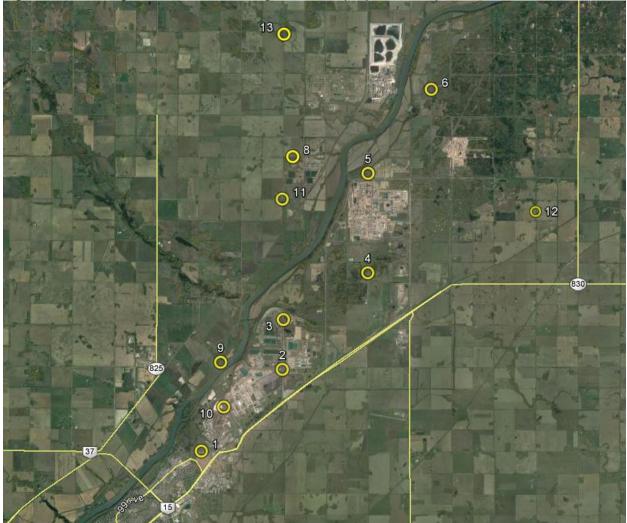


Figure 1: NCIA Regional Noise Monitoring Locations (as per Table 4)



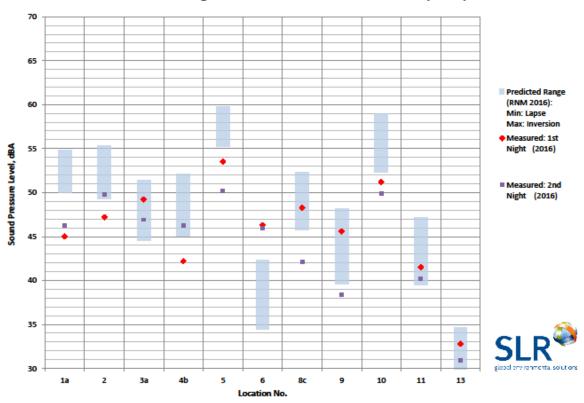


Table 5Comparison of Measured versus Modelled results

	Predicted Sound Level (RNM 2016)		Measured	Sound Level
			(2016)	
	Temperature	Temperature		
Location	Lapse	Inversion	First Night	Second Night
	Condition	Condition		
1a	50	54.8	45.0	46.2
2	49.3	55.3	47.2	49.8
3a	44.5	51.4	49.2	46.9
4b	45	52.1	42.2	46.2
5	55.2	59.8	53.5	50.2
6	34.5	42.3	46.3	45.9
8c	45.8	52.3	48.3	42.1
9	39.6	48.2	45.6	38.4
10	52.3	59.0	51.2	49.9
11	39.5	47.2	41.5	40.2
13	25.7	34.7	32.8	30.9



Figure 2: Predicted Range versus Measured Sound Levels (2016)



Predicted Range versus Measured Sound Levels (2016)

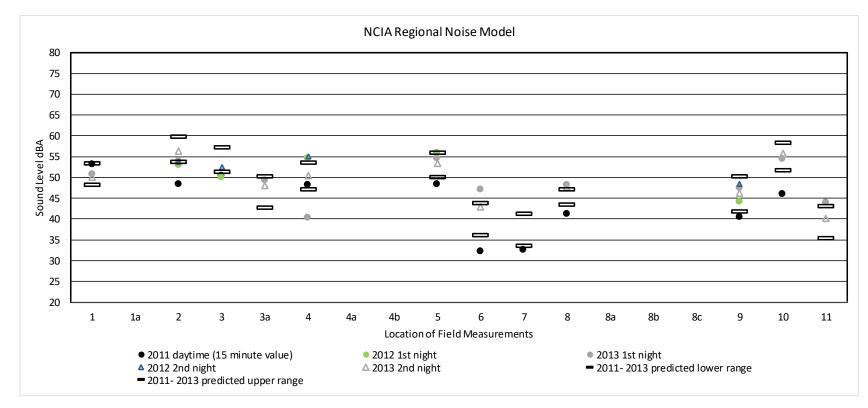
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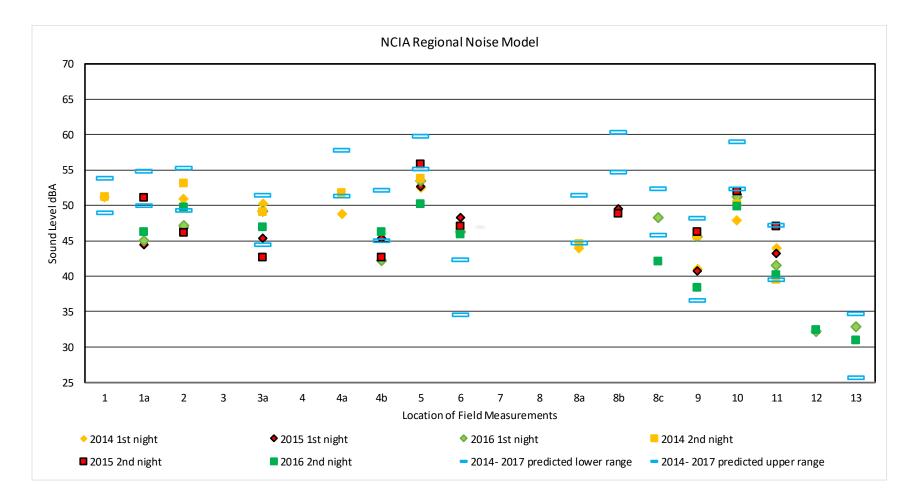
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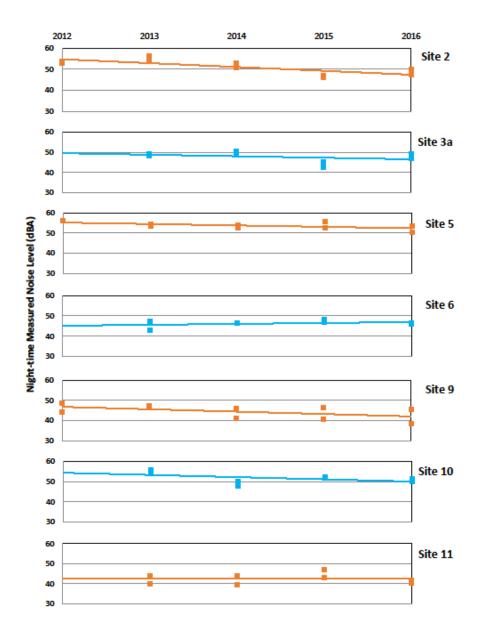














5 NCIA Member Compliance

Table 6 summarizes the compliance requirements for NCIA member and non-member companies' vis-a-vis the NCIA RNMP.

NCIA	AER	RNMP	Compliance
Member	Regulated	Participant	Vehicle
Yes	Yes	Yes	NCIA - RNMP
No	Yes	No	AER to Determine
Yes	No	No	Municipality/AEP
Yes	No	Yes	NCIA - RNMP
No	No	Yes	Potential NCIA-RNMP
No	No	No	Other Regulatory Jurisdictions

Table 6Compliance Requirements for NCIA Member Companies

As of this date, Table 7 summarizes the NCIA member companies and their status with respect to Table 5 above.

 Table 7

 Summary of NCIA Member Company Information for RNMP

NCIA Member ¹	AER Regulated Status for Noise Control Directive 038	Filed an Annual Update with NCIA for 2016 (Appendix 2)	Developed a Site Noise Management Plan
Access Pipeline	AER regulated under Noise Control Directive 038.	Yes	Not Yet
Agrium Fort Saskatchewan	Not regulated	Yes	Yes
Agrium Redwater	Not regulated	Yes	Yes
Air Liquide Canada	Not regulated	Yes	Partly
ATCO Power	Heartland facility <u>not</u> operational.	Yes	Yes
Aux Sable Canada	Regulated under Section 11 of the OSCA and therefore D-038.	Yes	Yes



NCIA Member ¹	AER Regulated Status for Noise Control Directive 038	Filed an Annual Update with NCIA for 2016 (Appendix 2)	Developed a Site Noise Management Plan
Cenovus	Not regulated	Yes	Not Yet
Chemtrade West	Not regulated	Yes	Yes
Dow Chemical Canada	Regulated under D-038 Operator No. 0F05	Yes	Yes
Enbridge Pipelines	Is regulated	Yes	Yes
Evonik	Not regulated	Yes	Partly
Fort Hills Energy Partnership	Not operational but will be regulated Operator No. 0XP9	No	Not Yet
Keyera Corp.	Regulated under D-038 Operator No. A5W1 LSD - 02-14-055-22W4 Facility No. F-12695	Yes	Yes
MEG Energy	Is Regulated	Yes	Yes
MEGlobal	Not regulated	Included with Dow's submission	Yes
North West Redwater Partnership	Not operational but will be regulated. LSD - E1/2-18-56-21-W4M	Yes	Yes
Oerlikon Metco (Canada)	Not regulated	Yes	Yes
Pembina NGL Corporation	Regulated under D-038	Yes	Yes
Plains Midstream Canada	Regulated under D-038 Operator No. 60 LSD - 14-55-22 W4M Facility No. 12699	Yes	Yes
Praxair Canada	Not regulated	No	Partly
Shell Chemicals	Not regulated	Yes	Yes
Shell Refinery	Regulated under Section 11 of the OSCA and therefore Noise Control Directive 038. AER Approval No. 11640.	Yes	Yes
Shell Upgrader	AER Approval No. 8522 regulated under D-038.	Yes	Yes
Sherritt International	Not regulated	Yes	Yes



NCIA Member ¹	AER Regulated Status for Noise Control Directive 038	Filed an Annual Update with NCIA for 2016 (Appendix 2)	Developed a Site Noise Management Plan
Umicore Canada	Not Regulated	Yes	Yes
Value Creation	Not operational, but will be regulated.	Yes	Not Yet

¹ Bold type in the above table signifies that these members have operational assets on the ground within Alberta's Industrial Heartland. Non-bold type means these companies are members, but <u>do not have operational assets</u>, at this time, in the region and were therefore <u>not required to complete the annual input form</u>, although some did provide updates on their projects.

6 Regional Noise Model

6.1 Improvements/Corrective Actions implemented in 2016 (Appendix 2)

- Agrium Agrium Redwater hired SLR Consulting to complete a Noise Model Update to address discrepancies in the existing NCIA Regional Noise Model. Approximately 50 of the 400 noise sources in the model were measured and updated. The most significant changes resulted from noise from open building doors where the previous site model assumed the doors to be closed. Further sources were added, namely the Phos 30# steam vents. See the detailed reports on this in Appendix 2. Agrium Redwater is planning to install silencers on the Phos 30# steam vents during the September 2017 turnaround.
- Pembina NGL Corporation Two projects have been approved for construction and will become operational in 2017 (RFS III Fractionation Plant and South Rail Yard Expansion project). Pembina is working with SLR Consulting to update the site noise model which will be incorporated into the 2018 RNM update.
- 3. Plains Midstream Canada Construction activities will continue in 2017 with Phase 1, 2 & 3 expansion plans. These planned activities may result in changes that require the facility to update the Regional Noise Model again and this will be evaluated as the expansion proceeds.
- 4. Shell Shell Scotford amalgamated the Refinery, Chemicals and Upgrader noise management plans into one document (see Appendix 2). The site model for Quest and for the Chemicals plant were updated in 2016. These will be captured in the 2018 RNM update. The debottlenecking project will also require an update to the site model. It is expected this will happen in 2018 and be captured by the 2018 RNM update.

6.2 Other Items for Follow-up Based on 2016 Field Measurements

1. Discrepancy between measured versus predicted sound levels at monitoring location #4, #6 and #8. It should be noted that we now understand that the Shell Scotford model is over



predicting the noise levels from the site (based on new site level noise measurements) which have resulted in a change in the site model. This change will be captured in the next Regional Noise Model update in 2018.

- 2. With respect to location 6, this will be addressed by Agrium Redwater as part of their site model update which will be captured in the 2018 RNM update.
- 3. With respect to location 5 and 8, this may be due to activities at the Pembina site or at the North West Redwater Partnership site. The Pembina part of this will be addressed as part of the 2018 RNM update.

6.3 Next Steps for 2017/2018

- 1. Agrium Agrium Redwater is in the process of planning and purchasing silencers for the Phos 30 # Steam Vents. These silencers will be installed during the September turnaround in 2017.
- 2. It is our understanding that site level noise models have or will be updated for Aux Sable Canada, Agrium Redwater, Keyera, Pembina NGL Corporation, and Shell Scotford. These site level model updates will be incorporated into the 2018 RNM update.
- 3. Sherritt International completed off-site noise monitoring in 2015 that suggested their offsite noise impact may be less than their site model suggests. Additional work is expected to happen in 2017 on this file that may lead to a site noise model update in the future.
- 4. Gather information from members to begin the 2018 RNM update.



APPENDIX 1

2016 Field Validation Monitoring Report



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2016 Environmental Noise Survey

For The

Regional Noise Model Annual Field Validation Monitoring

Prepared for: Northeast Capital Industrial Association

> Prepared by: P. Froment, B.Sc., B.Ed., P.L.(Eng.) aci Acoustical Consultants Inc. Edmonton, Alberta APEGA Permit to Practice #P7735

> > **□**□ **Ci** Project #: 16-030 February 3, 2017

Executive Summary

aCi Acoustical Consultants Inc., of Edmonton AB, was retained by the Northeast Capital Industrial Association (NCIA) to conduct an environmental noise survey within Alberta's Industrial Heartland (AIH). The purpose of the study was to conduct a single 48-hour noise monitoring at eleven (11) prespecified locations within the AIH. An additional noise monitoring, spanning two (2) 48-hour periods, was conducted at an 12th monitoring location (referred to as Location 12) as an independent control/reference point. The noise monitoring was conducted in support of the NCIA's Regional Noise Management Plan. In addition, the results from these noise monitoring will be used to validate the Regional Noise Level Assessment Model (the Regional Noise Model). All noise monitoring procedures and equipment used was in accordance with the requirements of the Alberta Energy Regulator (AER) Directive 038 on Noise Control. Site work was conducted for **aCi** in July and August, 2016 by P. Froment, B.Sc., P.L.(Eng.).

As part of the study, a total of thirteen (13) 48-hour noise monitorings were conducted throughout the Alberta's Industrial Heartland. It was found that the isolated $L_{eq}Night^1$ broadband and 1/3 octave band L_{eq} sound levels, from at least one (1) over-night period, were similar to those from previous measurements.

The noise levels at most locations consisted of low frequency components with occasional mid/high frequency components that could be attributed to the nearest facility relative to each individual noise monitoring location. Despite the noise being relatively low in frequency, none of the sites indicated any low frequency tonal components. The noise from train passages were again prevalent at all locations and tended to dominate the noise climate as they passed through, particularly when there were train whistles. Though the train passages were not as often subjectively observed during the site visits in comparison to previous years, the isolation analysis indicated a similar number of rail passages when compared to 2015.

¹ The term L_{eq} represents the energy equivalent sound level. This is a measure of the equivalent sound level for a specified period of time accounting for fluctuations.



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1.0 Introduction

aCi Acoustical Consultants Inc., of Edmonton AB, was retained by the Northeast Capital Industrial Association (NCIA) to conduct an environmental noise survey within Alberta's Industrial Heartland (AIH). The purpose of the study was to conduct a single 48-hour noise monitoring at eleven (11) prespecified locations within the AIH. An additional noise monitoring, spanning two (2) 48-hour periods, was conducted at an 12th monitoring location (referred to as Location 12) as an independent control/reference point. The noise monitoring was conducted in support of the NCIA's Regional Noise Management Plan. In addition, the results from these noise monitoring will be used to validate the Regional Noise Level Assessment Model (the Regional Noise Model). All noise monitoring procedures and equipment used was in accordance with the requirements of the Alberta Energy Regulator (AER) Directive 038 on Noise Control. Site work was conducted for **a**Ci in July and August, 2016 by P. Froment, B.Sc., P.L.(Eng.).

2.0 Location Description

Alberta's Industrial Heartland (AIH) is located northeast of Edmonton, AB and extends into five different municipalities as indicated in <u>Figure 1</u>. This includes 533 km² within the City of Fort Saskatchewan and the Counties of Lamont, Strathcona and Sturgeon, in addition to 49 km² in the City of Edmonton's "Edmonton Energy and Technology Park". The area has 40+ companies in various sectors that include producing and processing oil, gas and petrochemicals in addition to advanced manufacturing.

Topographically, the AIH does have some varying elevation changes however in general it can be considered relatively flat with no substantial hills. Areas with more significant changes in elevation are found adjacent to the North Saskatchewan River (the River) which divides the AIH from the southwest to the northeast (excluding the AIH area within the City of Edmonton's limits). The vegetation varies from open grain fields to thick dense vegetation. Due to the relative distance from the noise monitoring locations to the nearby facilities (with the exception of Noise Monitor Location 12) and the relatively low frequency nature of the industrial noise, the level of vegetative sound absorption is considered negligible to low.



3.0 Measurement Methods

As part of the study, a total of thirteen (13) 48-hour noise monitorings were conducted at 12 locations¹ throughout the AIH, as indicated in Figure 2.

Similarly to the 2015 Noise Survey², a noise monitoring was **not** conducted at Noise Monitor Location 7 due to the current construction activities at the Northwest Redwater Partnership (NWR) refinery. As discussed with the NCIA Regional Noise Management Plan Steering Committee on March 31, 2016, Noise Monitor Location 7 will no longer be used as a noise monitoring location due to the NWR refinery. A new location (Noise Monitor Location 13) was selected to represent this area of the AIH. Therefore, in future reports Noise Monitor Location 7 will not be discussed in great detail. Noise Monitor Location 13 will be discussed in <u>Section 4.0</u>.

All noise monitoring locations were identical to those conducted during the 2015 Noise Survey with the exception of Noise Monitor Location 8. This noise monitor was relocated due to construction and vehicle traffic found at its 2015 location. The new location was selected based on its sight lines to the facilities to the south and east is a more representative of its initial location from 2013 & 2014. It is anticipated that this new location for Noise Monitor 8 will be used in future studies.

The noise monitorings were conducted collecting broadband A-weighted and C-weighted as well as 1/3 octave band sound levels and were conducted during "typical" operations at all facilities³. In particular, the chosen noise monitoring periods avoided any major shut-downs or outages that could adversely affect the "typical" noise levels (either louder or quieter) from a given facility. In addition, the monitorings were conducted in summer conditions (i.e. no snow cover) with little or no precipitation and, if possible, low wind-speeds. Each noise monitoring was accompanied by a 48-hour digital audio recording for more detailed post process analysis. Three (3) local weather monitoring stations were also used for the two (2) 48-hour time monitoring periods. The weather monitors obtained the wind speed, wind direction, temperature, relative humidity, barometric pressure and rain fall data in 15-second sampling periods. Lastly, it should be noted that all measurements were performed in accordance with the methods described in the AER Directive 038 on Noise Control.

³ This was verified by all of the various company representatives.



¹ Once again, it should be noted that two (2) 48-hour monitoring were conducted at Monitoring Location 12.

² This refers to the report, "2015 Environmental Noise Survey for the Regional Noise Model Annual Field Validation

Monitoring" prepared for the NCIA by aci Acoustical Consultants Inc. on November 23, 2015.

4.0 Noise Monitoring Location Description

In addition to Table 1, which provides the UTM coordinates and the start and end times for each noise monitoring, a brief discussion of each noise monitoring location can be found below. All noise measurement instrumentation was calibrated at the start of the measurements and then checked afterwards to ensure that there had been no significant calibration drift over the duration of the measurements. Refer to <u>Appendix I</u> for a detailed description of the measurement equipment used and for all calibration records.

Monitoring Location		oordinates ximate) ¹	Start Time	End Time	
	Easting (m)	Northing (m)			
1	355040	5954162	6/27/16 11:40	6/29/16 11:40	
2	358261	5957223	6/27/16 11:10	6/29/16 11:10	
3	358353	5959156	8/02/16 09:00	8/04/16 09:00	
4	361665	5960870	6/27/16 10:10	6/29/16 10:10	
5	361777	5964711	6/27/16 10:00	6/29/16 10:00	
6	364322	5967894	6/27/16 09:30	6/29/16 09:30	
7	N/A				
8	358880	5965456	8/02/16 13:00	8/04/16 13:00	
9	355872	5957574	8/02/16 14:00	8/04/16 14:00	
10	355925	5955818	6/27/16 11:00	6/29/16 11:00	
11	358430	5963804	8/02/16 13:10	8/04/16 13:10	
12a	260222	5000070	6/27/16 11:00	6/29/16 11:00	
12b	368223	5963070	8/02/16 12:00	8/04/16 12:00	
13	358667	5970180	8/02/16 12:10	8/04/16 12:10	

Table 1. Noise Monitoring Locations with Start and End Times

4.1. Noise Monitor Location 1

The noise monitor at Location 1 was located approximately 2 m north of 100 Avenue, 350 m west of 114 Street and approximately 520 m northwest of Highway 15 as indicated in <u>Figure 2</u> and <u>Figure 3</u>. This put the noise monitor approximately 550 m southwest of the Sherritt International Corporation facility. This is the southernmost noise monitoring location found within the AIH. At this location, there was direct line-of-sight to 100 Avenue, Mel Martin's Transfer Facility and the Sherritt International Corporation facility. There was no significant vegetation between the noise monitor and the facilities to the northeast.

¹ The UTM Coordinates have been updated to reflect the modified 2016 noise monitor locations.



4.2. <u>Noise Monitor Location 2</u>

The noise monitor at Location 2 was located approximately 90 m southeast of 125 Street and approximately 1.0 km north of Highway 15 as indicated in <u>Figure 2</u> and <u>Figure 4</u>. This put the noise monitor approximately 120 m west of the Dow yard, 170 m north of the Dow rail yard and approximately 850 m east-southeast of the Keyera Facility. At this location, there was direct line-of-sight to Dow's main site to the east and to the rail yard to the south. There was no significant vegetation between the noise monitor and the aforementioned facilities.

4.3. <u>Noise Monitor Location 3</u>

The noise monitor at Location 3 was located approximately 6 m east of 125 Street and approximately 220 m north of the entrance to the Petrogas entrance as indicated in Figure 2 and Figure 5. This put the noise monitor approximately 270 m northwest of the Petrogas facility and approximately 120 m southeast of the entrance to the Plains Midstream Facility. At this location, there was direct line-of-sight to equipment found on the Petrogas site. This equipment was not visible during the 2015 Noise Survey due to a relatively significant earth berm. Since the 2015 Noise Survey this berm has been removed. In addition, relative to the 2015 Noise Survey it was subjectively observed that there was a higher volume traffic along 125 Street due to activity at the Plains Midstream facility. There was no significant vegetation between the noise monitor and the aforementioned facilities.

4.4. Noise Monitor Location 4

The noise monitor at Location 4 was located approximately 1.2 km south of the south fence line of the Shell Scotford site and approximately 1.6 km east of Range Road 220 (130 Street) as indicated in Figure 2 and Figure 6. This put the noise monitor at 490 m south of the entrance to the electrical substation to the northwest. At this location, there was direct line-of-sight to the Shell Scotford site but not to the electrical substation to the northwest. There was no significant vegetation between the noise monitor and the Shell Scotford facility.

4.5. <u>Noise Monitor Location 5</u>

The noise monitor at Location 5 was located approximately 200 m north of Township Road 560A and 5 m east of Range Road 215 as indicated in <u>Figure 1</u> and <u>Figure 7</u>. This put the noise monitor approximately 300 m north of the north fence line for the Shell Scotford facility and approximately 135 m west of an industrial yard to the east. At this location, there was direct line-of-sight to the Shell Scotford site but not the industrial yard (due to the topography of the area). There was no significant vegetation between the noise monitor and the Shell Scotford facility.



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4.6. Noise Monitor Location 6

The noise monitor at Location 6 was located approximately 1.0 km north of Township Road 562 and 3 m east of Range Road 213A as indicated in <u>Figure 1</u> and <u>Figure 8</u>. This put the noise monitor approximately 1.6 km east of the Agrium Redwater facility. Due to favorable topography between the noise monitor and Agrium there was direct line-of-sight to the Agrium site through a small row of deciduous trees across the road. There was no significant vegetation between the noise monitor and the Agrium facility. Note also that a weather monitor was placed at this location, adjacent to the noise monitor for the July 27 - 29, 2016 noise monitoring period.

4.7. Noise Monitor Location 7

As previously mentioned this noise monitoring location is no longer used.

4.8. Noise Monitor Location 8

The noise monitor at Location 8 was located approximately 1.6 km south of Highway 643 (eastbound) and 365 m east of Range Road 221 as indicated in <u>Figure 2</u> and <u>Figure 9</u>. This put the noise monitor approximately 30 m north of the northern fence line for the Pembina/Williams facility. At this location, there was direct line-of-sight to the Pembina/Williams site through a thin row of deciduous trees. There was no significant vegetation between the noise monitor and the aforementioned facilities.

4.9. Noise Monitor Location 9

The noise monitor at Location 9 was located approximately 5 m southwest of the intersection of Lamoureux Drive and Godbout Avenue as indicated in <u>Figure 2</u> and <u>Figure 10</u>. This put the noise monitor approximately 1.3 km northwest of the major structures at the Dow facility and approximately 1.4 km west of the Keyera facility. Due to favorable topography, there was direct line-of-sight to the facilities across the River through a thin row of deciduous trees¹. Despite the thin row of trees there was no significant vegetation between the noise monitor and the aforementioned facilities.

4.10. Noise Monitor Location 10

The noise monitor at Location 10 was located approximately 30 m west of 119 Street and 12 m north of the access road to the Agrium Fort Saskatchewan facility as indicated in <u>Figure 2</u> and <u>Figure 11</u>. This put the noise monitor approximately 750 northeast of the major structures at the Agrium facility and approximately 180 m west of the west fence-line of the Dow facility. There was direct line-of-sight to the

¹ This was particularly observable during the night-time period.



Dow facility but not to the Agrium facility (due to the topography of the area). There was no significant vegetation between the noise monitor and the aforementioned facilities. Note also that a weather monitor was placed at this location, adjacent to the noise monitor for the July 27 - 29, 2016 noise monitoring period.

4.11. Noise Monitor Location 11

The noise monitor at Location 11 was located approximately 3 m northwest of the intersection of Range Road 221 and Township Road 560 as indicated in Figure 2 and Figure 12. This put the noise monitor approximately 1.7 km southwest of the major structures at the Pembina/Williams facility and approximately 330 m west of the Pembina/Williams rail yard. At this location, there was direct line-ofsight to the Pembina/Williams facility but not to the rail yard (due to the topography of the area). There was no significant vegetation between the noise monitor and the aforementioned facilities. Note also that a weather monitor was placed near this location for the August 2 - 4, 2016 noise monitoring period.

4.12. Noise Monitor Location 12

The noise monitor at Location 12 was the independent control/reference point. It was located approximately 15 m east of Range Road 211 and 450 m south of Township Road 560 as indicated in Figure 2 and Figure 13. This placed the noise monitor approximately 1.6 km west of Highway 830 and approximately 2.7 km north of Highway 15. At this location, there was direct line-of-sight to the west of the AIH region. The noise monitor was bordered on all sides by a combination of open grassy fields. Due to the distance from the noise monitor to the existing major facilities within the AIH, the vegetative absorption between the noise monitor and these facilities would be considered significant. Note also that a weather monitor was placed at this location, adjacent to the noise monitor for the July 27 - 29 & August 2 - 4, 2016 noise monitoring periods.

4.13. Noise Monitor Location 13

The noise monitor at Location 13 was located approximately 3 m east of Range Road 221 and 100 m south of Township Road 564 as indicated in Figure 2 and Figure 14. This put the noise monitor approximately 1.1 km northwest of the lay down yard for the NWR facility and is the north easternmost noise monitoring location found within the AIH. At this location, there was no direct line-of-sight to any facilities. There was moderate vegetation between the noise monitor and the aforementioned facilities. Note also that a weather monitor was placed near this location for the August 2 - 4, 2016 noise monitoring period.



5.0 Equivalent Sound Level & Statistical Descriptors

Environmental noise levels from industry are commonly described in terms of equivalent sound levels or L_{eq} . This is the level of a steady sound having the same acoustic energy, over a given time period, as the fluctuating sound. The concept is that the same amount of annoyance occurs from a sound having a high level for a short period of time as from a sound at a lower level for a longer period of time. In addition, this energy averaged sound level is often A-weighted to account for the reduced sensitivity of average human hearing to low frequency sounds and/or C-weighted to allow for more low frequency noise to be considered. These L_{eq} in dBA/dBC, which are the most common environmental noise measure, are often given for day-time (07:00 to 22:00) L_{eq} Day and night-time (22:00 to 07:00) L_{eq} Night while other criteria use the entire 24-hour period as L_{eq} 24.

Another method of conveying long term noise levels utilizes statistical descriptors. These are calculated from a cumulative distribution of the sound levels over the entire measurement duration and then determining the sound level at xx % of the time. These descriptors can be used to provide a more detailed analysis of the varying noise climate.

For purposes of this study, the following equivalent sound levels and statistical descriptors will be presented and discussed:

LeqDay	- Measured over the day-time $(07:00 - 22:00)$
LeqNight	- Measured over the night-time (22:00 – 07:00)
L10	Sound level that was exceeded only 10% of the time.Good measure of intermittent or intrusive noise
L50	- Sound level that was exceeded 50% of the time (arithmetic average) - Good to compare to L_{eq} to determine steadiness of noise
L90	 sound level that was exceeded 90% of the time Good indicator of typical "ambient" noise levels

For further information, refer to <u>Appendix II</u> for a description of the acoustical terminology and <u>Appendix III</u> for a list of common noise sources and their associated noise levels.



6.0 Results and Discussion

6.1. Environmental Noise Monitorings

The results of the thirteen (13) 48-hour noise monitorings can be found in Table 2¹ and are presented in <u>Figures 15 – 118</u>. The figures include the 15-second broadband dBA and dBC L_{eq} sound levels², 1-hour dBA and dBC, L_{90} , L_{50} , L_{10} sound levels³ and the 1/3 octave band L_{eq} sound levels³ for each noise monitoring location. Table 2 provides results of each of the three daytime periods in addition to the isolated and non-isolated values for the two night-time periods. The isolation analysis for the night-time periods was performed in accordance with Section 4.3.2 of the AER Directive 038. A list of all non-typical noise events removed from each of the thirteen noise monitorings can be found in <u>Appendix IV</u>. Each event that was removed has been dated with its corresponding time period as well as the rationale for its removal. A detailed discussion of the results for each monitoring location can be found below.

Noise Monitoring Location	1st Daytime Period	1st Night-time Period (Non- Isolated)	1st Night-time Period (Isolated)	2nd Daytime Period	2nd Night-time Period (Non-isolated)	2nd Night-time Period (Isolated)	3rd Daytime Period
Looution	L _{eq} Day (dBA)	L _{eq} Night (dBA)		L _{eq} Day (dBA)	L _{eq} Night (dBA)		L _{eq} Day (dBA)
1	61.7	58.3	45.0	62.7	58.6	46.2	59.5
2	49.0	61.7	47.2	56.5	54.0	49.8	60.0
3	54.6	52.3	49.2	55.7	52.4	46.9	62.2
4	41.0	44.1	42.2	45.3	46.7	46.2	46.2
5	57.0	53.7	53.5	56.3	50.7	50.2	49.5
6	52.7	47.4	46.3	55.5	47.6	45.9	60.2
7	N/A						
8	46.4	48.7	48.3	47.0	43.0	42.1	48.8
9	50.9	49.1	45.6	49.9	47.6	38.4	50.1
10	58.1	56.4	51.2	58.4	55.5	49.9	59.1
11	56.9	53.7	41.5	60.3	53.5	40.2	56.1
12 (Period 1)	50.4	47.3	32.2	51.8	47.8	33.5	49.7
12 (Period 2)	47.8	44.5	31.3	48.9	46.1	32.4	52.0
13	42.7	42.3	32.8	44.2	42.3	30.9	43.0

Table 2.	Leg 24-Hour	Results

³ Isolated and Non-isolated values are presented.



¹ The results of each location will be discussed individually.

 $^{^{2}}$ The data provided in the 15-second L_{eq} traces shows the 24-hour time period with the isolated night-time results, after removal of non-typical noise levels. This was done to indicate the relative steadiness of the noise levels and to make it easier to view the night-time data.

6.1.1. Noise Monitoring Location 1

The results of the noise monitoring conducted at Location 1 are provided in Table 2 and in Figures 15 - 21The isolated L_{eq}Night values from Table 2 and the traces found in Figures 15 - 18 indicate relatively consistent noise levels for the two night-time periods¹. The slightly elevated noise levels during the June 28 - 29, 2016 night-time period were subjectively apparent during the site visit and are consistent with the weather conditions during each of the two night-time periods.

The 1/3 octave band L_{eq} sound levels found in Figures 21 - 22 are relatively broadband with a decrease in the higher frequencies (1.25 kHz and above) and an elevated peak in the 25 Hz band, which is consistent with the 2015 Noise Survey.

Based on the results and subjective observations from previous years and when considering the weather conditions, the isolated values are representative of the typical noise climate of this area.

6.1.2. Noise Monitoring Location 2

The results of the noise monitoring conducted at Location 2 are provided in Table 2 and in Figures 23 - 30. The isolated L_{eq} Night traces found in Figures 23 - 24 indicate that a significant amount of data was isolated from the measured (i.e. raw) data². As noted in <u>Appendix IV</u>, the majority of removed "non-typical" incidents were from time periods in which noise from the rail line to the south was the dominant source. The removal of data due to the rail yard is consistent with previous years, however the number of events is relatively higher than in previous years. This is further reinforced by Figures 25 - 28 which indicate a large variance between the measured and isolated data, particularly during the June 27 - 28, 2016 night-time period.

The isolated 1/3 octave figures indicate relatively broadband noise levels, particularly in the mid-frequency bands, with elevated noise levels in the lower (below 100 Hz) frequency bands. This is consistent with the 2015 Noise Survey.

Due to the varying contributions from the rail yard (from day to day and from year to year), a representative average noise level for Location 2 is more difficult to determine in comparison to other locations.

 $^{^2}$ Data was completely removed between 05:13 – 07:00 on June 28, and between 05:03 – 07:00 on June 29, due primarily to birds chirping during that time period.



¹ Data was completely removed between 04:34 - 07:00 on June 28, and between 04:34 - 07:00 on June 29, due to the number of vehicle passages (several per minute) and birds chirping during that time period.

6.1.3. Noise Monitoring Location 3

The results of the noise monitoring conducted at Location 3 are provided in Table 2 and in Figures 31 - 38. The isolated L_{eq} Night values and the traces found in Figures 31 - 34 indicate relatively consistent noise levels throughout both night-time periods¹, particularly from 23:00 – 06:00. Similarly to the 2015 results, as indicated in <u>Appendix IV</u>, there was high amount of "non-typical" events throughout both noise monitoring periods. The majority of the "non-typical" events were from; vehicle pass-by's, particularly between 05:30 and 07:00 each morning and from rail activity to the north. When considering the "typical" noise climate of the area, the isolated L_{50} and L_{90} values (shown in Figures 35 - 36) indicate very little fluctuation in the noise levels.

The 1/3 octave band spectral data is consistent between all noise monitoring periods and indicates elevated noise levels in the lower frequency bands that gradually decrease as the frequency increases. These are again consistent with the results from the 2015 Noise Survey.

Based on the results and subjective observations from previous years and when considering the weather conditions, the isolated values are representative of the typical noise climate of this area.

6.1.4. Noise Monitoring Location 4

The results of the noise monitoring conducted at Location 4 are provided in Table 2 and in Figures 39 - 46. The isolated L_{eq} Night values from Table 2 and the traces found in Figures 39 - 42 indicate varying noise levels for both night-time periods. In reviewing the weather conditions, found in Appendix V², there were no parameters (wind speed, wind direction, etc.) that would account for the variance in noise levels between the two nights. However, it should be noted that this variation in noise level has occurred in previous measurements at this location. In addition, subjective observations made in previous years have indicated that this location is highly influenced by small variations in meteorological conditions. Therefore, it is possible, that the variation can be attributed to small fluctuations in the weather conditions between the two nights.

As illustrated in Figure 40, the noise climate for the June 28 - 29, 2016 overnight period has less variations in the noise levels. This is also consistent with subjective observations made on-site during this night-

 $^{^{2}}$ It should be noted however, that the nearest weather station for this noise monitoring period was found approximately 7.5 km northeast of this location.



¹ It should be noted that the data was completely removed between 05:16 - 07:00 on August 4 due to the number of vehicle passages (several per minute) and birds chirping during that time period.

time period. The 1/3 octave band spectral data is consistent between both noise monitoring periods with slightly lower levels for the June 27 - 28, 2016 overnight period. Based on the results and subjective observations from previous years and when considering the weather conditions, the isolated values are representative of the typical noise climate of this area.

6.1.5. Noise Monitoring Location 5

The results of the noise monitoring conducted at Location 5 are provided in Table 2 and in Figures 47 - 54. Figures 47 - 50 indicate relatively consistent isolated 15-second L_{eq} traces throughout both night-time periods. This is further confirmed in Figures 51 - 52 where there are minimal differences between the L₁₀, L₅₀ and L₉₀ values which indicates that noise levels were relatively steady and are reflective of typical noise levels. Despite, the consistency of the traces there is still a variance of 3 dBA between the two night-time periods. Similarly to Noise Monitoring Location 4, there were no specific weather parameters (wind speed, wind direction, etc.), found in Appendix V¹, that would account for the variance in noise levels between the two nights. When considering the location of Monitor Location 5 and Monitor Location 4, relative to the nearest facility (north and south, respectively), it is anticipated that the variance in noise levels between the two night-time periods can be attributed to the weather conditions.

The 1/3 octave band spectral data is consistent between both noise monitoring periods with slightly lower levels for the June 28 – 29, 2016 overnight period. In reviewing the weather conditions, found in <u>Appendix V</u>, there were no parameters (wind speed, wind direction, etc.) that would account for the variance in noise levels between the two nights (approximately 3 dBA). Based on comparisons between these results and those the 2015 Noise Survey, the isolated values from the June 27 – 28, 2016 overnight period are representative of the typical noise climate of this area.

6.1.6. Noise Monitoring Location 6

The results of the noise monitoring conducted at Location 6 are provided in Table 2 and in Figures 55 - 62. The isolated L_{eq} Night values from Table 2 and the traces found in Figures 55 - 58 indicate relatively consistent noise levels throughout both night-time periods. The isolated L_{eq} Night values are consistent with those from the 2015 Noise Survey in addition to the 2014 Noise Survey in which both night-time periods resulted in L_{eq} Night noise levels of 46.3 dBA.

¹ It should be noted however, that the nearest weather station for this noise monitoring period was found approximately 4.0 km northeast of this location.



The noise was subjectively broadband across all frequencies which is consistent with the 1/3 octave band L_{eq} traces and with the results from the 2015 Noise Survey.

6.1.7. Noise Monitoring Location 7

As previously mentioned this noise monitoring location will no longer be used as a noise monitoring location due to the NWR refinery.

6.1.8. Noise Monitoring Location 8

The results of the noise monitoring conducted at Location 8 are provided in Table 2 and in Figures 63 - 70. The isolated L_{eq} Night values and the traces found in Figures 63 - 66 indicate varying noise levels between the two night-time periods. Specifically, there is a difference of 6.2 dBA between the two night-time periods. The variance in noise level can be attributed to the weather conditions between the two nights. In particular, the wind during the August 3 – 4, 2016 night-time period was from the north-northwest for a majority of the monitoring period, thus causing upwind conditions from the noise monitor to the facility to the southeast. This relatively large reduction in noise level between nights was also observed for Noise Monitor 9.

The 1/3 octave band spectral data is consistent between both noise monitoring periods with lower levels for the August 3 - 4, 2016 overnight period. Based on comparisons between these results and those from the 2014 Noise Survey¹, the isolated values from the August 2 - 3, 2016 overnight period are more representative of the typical noise climate of this area.

6.1.9. Noise Monitoring Location 9

The results of the noise monitoring conducted at Location 9 are provided in Table 2 and in Figures 71 - 78. The isolated L_{eq} Night values and the traces found in Figures 71 - 74 indicate varying noise levels between the two night-time periods. Specifically, there is a difference of 7.2 dBA between the two night-time periods. The variance in noise level can be attributed to the weather conditions between the two nights. In particular, the wind during the August 3 – 4, 2016 night-time period was from the north-northwest for a majority of the monitoring period, thus causing upwind conditions from the noise monitor to the facilities

¹ As previously mentioned, this location was moved back to an area consistent with the 2014 Noise Survey. As such, a comparison to the 2014 Noise Survey is more appropriate.



NCIA - Regional Noise Model 2016 Field Validation Monitoring - DRAFT a⊏i Project #16-030 to the east-southeast. This relatively large reduction in noise level between nights was also observed for Noise Monitor 8.

The 1/3 octave band spectral data is consistent between both noise monitoring periods with lower levels for the August 3 - 4, 2016 overnight period. Based on comparisons between these results and those from the 2015 Noise Survey, the isolated values from the August 2 - 3, 2016 overnight period are more representative of the typical noise climate of this area.

6.1.10. Noise Monitoring Location 10

The results of the noise monitoring conducted at Location 10 are provided in Table 2 and in Figures 79 - 86. The isolated L_{eq} Night values and the traces found in Figures 79 - 82 indicate relatively consistent noise levels, particularly for the June 28 - 29, 2016 night-time period¹. The consistency of the noise climate at this location is further confirmed in Figures 83 - 84 where there is very little difference between the isolated L_{10} , L_{50} and L_{90} values which indicates that noise levels were relatively steady and are reflective of typical noise levels.

Similarly to previous years, it was noted that not one site dominated the noise climate of the area. Instead noise was distinctly audible from each the various surrounding facilities and was more prominent when any particular facility was upwind from the noise monitoring location. The 1/3 octave band L_{eq} sound levels indicate elevated noise levels in the lower frequency bands that gradually decrease as the frequency increases with a significant reduction beyond the 5 kHz.

Based on the results and subjective observations from previous years and when considering the weather conditions, the isolated values of both night-time periods are representative of the typical noise climate of this area.

6.1.11. Noise Monitoring Location 11

The results of the noise monitoring conducted at Location 11 are provided in Table 2 and in Figures 87 - 94. The isolated L_{eq} Night values from Table 2 and the traces found in Figures 87 - 90 indicate varying noise levels for both night-time periods². In particular, there is a relatively significant decrease in

 $^{^{2}}$ Data was completely removed between 06:04 – 07:00 on August 3, 2016 due to the number of vehicle passages (several per minute during that time period.



¹ Data was completely removed between 05:30 - 07:00 on June 28, and between 05:37 - 07:00 on June 29, due to the number of vehicle passages (several per minute during that time period.

NCIA - Regional Noise Model 2016 Field Validation Monitoring - DRAFT □□ Project #16-030 the noise levels from approximately 03:00 - 07:00 during the August 2 - 3, 2016 night-time period. In

reviewing the weather conditions, found in <u>Appendix V</u>, the decrease in noise level (approximately 10 dBA) can be attributed to the shift in wind direction from east-northeast to north and northwest. This resulted in the noise monitor shifting from being in a downwind location to an upwind location relative to the facilities to the northeast and east. These wind conditions occurred again during the August 3 - 4, 2016 night-time period and again resulted in lower than anticipated isolated L_{eq}Night values.

Subjectively, the noise arriving at this monitoring location (when excluding rail activity) was relatively broadband with the mid/high frequencies coming from the northeast and east. The 1/3 octave band L_{eq} sound levels indicate elevated noise levels in the lower frequency bands that gradually decrease as the frequency increases. The contribution of the train and the 1/3 octave band L_{eq} sound levels are consistent with the 2015 Noise Survey.

6.1.12. Noise Monitoring Location 12

The results of the noise monitoring conducted at Location 12 are provided in Table 2 and in Figures 95 - 110. As previously mentioned, this location was the independent control/reference point. Therefore, the results from this location span two (2) 48-hour monitoring periods¹.

For all night-time periods there is a significant difference between the non-isolated L_{eq} Night noise levels in comparison to the isolated L_{eq} Night noise levels for all night-time periods. This can be attributed to this location being relatively far any major facility², therefore most instances of vehicular traffic on Range Road 211 or rail activity along the nearby CP rail line dominate the noise climate. This was similar for all night-time periods and is consistent with the results from the 2015 Noise Survey.

In the absence of the vehicular or rail activity the 1/3 octave band L_{eq} sound levels indicate a similar trace to the other monitoring locations with elevated noise levels in the lower frequency bands (20 Hz - 80 Hz) that gradually decrease as the frequency increases.

² This location is approximately 2.3 km northeast of the ATCO Natural Gas Salt Cavern Storage Site.



¹ Data was completely removed between 05:25 - 07:00 on June 28, 05:28 - 07:00 on June 29, 05:03 - 07:00 on August 3 and from 05:10 - 07:00 on August 4 due to the number of vehicle passages (several per minute during that time period) and due to the morning chorus.

6.1.13. Noise Monitoring Location 13

The results of the noise monitoring conducted at Location 13 are provided in Table 2 and in Figures 111 - 118. The isolated L_{eq} Night values from Table 2 and the traces found in Figures 111 - 114 indicate varying noise levels for both night-time periods. The variance in noise level can be attributed to the weather conditions between the two nights. In particular, the wind during the August 3 – 4, 2016 night-time period was from the north-northwest for a majority of the time, thus causing upwind conditions from the noise monitor to the facilities to the east-southeast.

The 1/3 octave band spectral data is consistent between both noise monitoring periods with lower levels for the August 3 - 4, 2016 overnight period. In addition, the 1/3 octave band L_{eq} sound levels indicate a similar trace to the other monitoring locations with elevated noise levels in the lower frequency bands (20 Hz – 80 Hz) that gradually decrease as the frequency increases.

6.2. <u>2016 General Subjective Observations from Site Visits and Data Analysis</u>

- Due to the varying contributions from the rail yard (from day to day and from year to year), a representative average noise level for Noise Monitor Location 2 is more difficult to determine in comparison to other locations.
- The trace of the 1/3 octave band L_{eq} sound levels for all noise monitoring locations were similar to those measured in previous years.
- The noise arriving at most monitor locations consisted primarily of low frequency components that gradually decreased in noise level as the frequency increased.
- Despite the noise being relatively low in frequency, none of the sites indicated any specific low frequency tonal components.
- The noise from train passages was prevalent at all locations and tended to dominate the noise climate as they passed through, particularly when there were train whistles. Though the train passages were not subjectively observed during the site visits in comparison to previous years, the isolation analysis indicated a similar number of rail passages when compared to 2015.
- Data obtained from the August 2 4, 2016 noise monitoring periods illustrated the potential acoustical consequence of noise propagation due to meteorological conditions. Specifically, the shift from a receiving point upwind condition to a downwind condition.



6.3. Night-time Weather Conditions

As previously mentioned, 3 local weather monitoring stations were used throughout all noise monitoring periods to obtain the wind speed, wind direction, temperature, relative humidity, barometric pressure and rain fall data in 1-minute sampling periods. All weather data are presented in <u>Appendix V¹</u>. A brief discussion of each night-time period can be found below. The wind speeds during certain night-time periods were in excess of the limits of AER Directive 038. However, through the use of the audio files and the 1/3 octave band L_{eq} sound levels, all instances of high wind speeds that influenced the noise monitoring results were isolated (i.e. removed). Therefore, the results found within Table 2 are considered in compliance with AER Directive 038.

6.3.1. June 27 – 28, 2016

Weather Monitor near Noise Monitor Location 6

The wind conditions during the night-time period were considered calm (primarily below 5 km/hr) and predominantly from the east to south directions. The temperature ranged from 13°C to 21°C and the relative humidity ranged from approximately 51% - 89%. The barometric pressure was consistent and relatively flat at approximately 94 kPa. Lastly, there was no precipitation.

Weather Monitor near Noise Monitor Location 10

The wind conditions during the night-time period were considered moderate (primarily below 10 km/hr) and from the south-southeast. The temperature ranged from 12°C to 23°C and the relative humidity ranged from approximately 50% - 82%. The barometric pressure was consistent and relatively flat at approximately 95 kPa. Lastly, there was no precipitation.

Weather Monitor near Noise Monitor Location 12

The wind conditions during the night-time period were considered calm (primarily below 5 km/hr for a majority of the night-time period). The wind shifted from the north, at the beginning of the night-time period, to the south by the end. The temperature ranged from 12°C to 18°C and the relative humidity ranged from approximately 68% - 92%. The barometric pressure was consistent and relatively flat at approximately 95kPa. Lastly, there was no precipitation.

¹ Rainfall was only presented for the night-time period (for all noise monitoring periods) as only the night-time period was isolated.



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6.3.2. June 28 – 29, 2016

Weather Monitor near Noise Monitor Location 6

The wind conditions during the night-time period were considered calm (primarily below 5 km/hr) and predominantly from the east to south directions. The temperature ranged from 10°C to 19°C and the relative humidity ranged from approximately 68% - 94%. The barometric pressure was consistent and relatively flat at approximately 95 kPa. Lastly, there was no precipitation.

Weather Monitor near Noise Monitor Location 10

The wind conditions during the night-time period were considered moderate (primarily below 10 km/hr). The wind was initially from the north, shifting to the southwest before gradually shifting to the south. The temperature ranged from 13°C to 20°C and the relative humidity ranged from approximately 59% - 90%. The barometric pressure was consistent and relatively flat at approximately 95 kPa. Lastly, there was no precipitation.

Weather Monitor near Noise Monitor Location 12

The wind conditions during the night-time period were considered moderate (below 10 km/hr the entire night-time period). The wind was initially from the north-northeast before shifting to the southwest for the majority of the night-time period. The temperature ranged from 10°C to 18°C and the relative humidity ranged from approximately 74% - 92%. The barometric pressure was consistent and relatively flat at approximately 95kPa. Lastly, there was no precipitation.



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6.3.3. <u>August 2 – 3, 2016</u>

Weather Monitor near Noise Monitor Location 11

The wind conditions during the start of night-time period were considered moderate (primarily between 5 - 12 km/hr) and from the east. The wind calmed (at or below 5 km/hr) after approximately 02:00 and then shifted to the west-northwest for the remainder of the night-time period. The temperature ranged from 12°C to 20°C and the relative humidity ranged from approximately 55% - 89%. The barometric pressure was consistent and relatively flat at approximately 94 kPa. Lastly, there was no precipitation.

Weather Monitor near Noise Monitor Location 13

The wind was relatively calm (primarily below 5 km/hr) from varying directions¹ throughout the entire night-time period. The temperature ranged from 10°C to 17°C and the relative humidity ranged from approximately 78% - 92%. The barometric pressure was consistent and relatively flat at approximately 95 kPa. Lastly, there was no precipitation.

Weather Monitor near Noise Monitor Location 12

The wind conditions during the night-time period were considered calm (primarily below 5 km/hr for a majority of the night-time period). The wind shifted from the southeast to northeast, at the beginning of the night-time period, to the south-southwest by the end. The temperature ranged from 12°C to 18°C and the relative humidity ranged from approximately 76% - 91%. The barometric pressure was consistent and relatively flat at approximately 95kPa. Lastly, there was no precipitation.

¹ The wind direction fluctuates more greatly when wind speeds are below 5 km/hr and are essentially calm. In these instances, the wind direction has a minimal influence of the propagation of the sound.



6.3.4. <u>August 3 – 4, 2016</u>

Weather Monitor near Noise Monitor Location 11

The wind conditions were considered moderate (primarily between 5 - 10 km/hr) and predominantly from the west-northwest for the night-time period. The temperature ranged from 12°C to 17°C and the relative humidity ranged from approximately 77% - 90%. The barometric pressure was consistent and relatively flat at approximately 94 kPa. Lastly, there was no precipitation.

Weather Monitor near Noise Monitor Location 13

The wind was relatively calm (primarily below 5 km/hr) from varying directions¹ throughout the entire night-time period. The temperature ranged from 12°C to 15°C and the relative humidity ranged from approximately 85% - 94%. The barometric pressure was consistent and relatively flat at approximately 95 kPa. Lastly, there was no precipitation.

Weather Monitor near Noise Monitor Location 12

The wind conditions were considered moderate (primarily between 5 - 10 km/hr) and predominantly from the southwest for the night-time period. The temperature ranged from 11°C to 16°C and the relative humidity ranged from approximately 75% - 92%. The barometric pressure was consistent and relatively flat at approximately 94kPa. Lastly, there was no precipitation.

¹ The wind direction fluctuates more greatly when wind speeds are below 5 km/hr and are essentially calm. In these instances, the wind direction has a minimal influence of the propagation of the sound.



7.0 Conclusion

As part of the study, a total of thirteen (13) 48-hour noise monitorings were conducted throughout the Alberta's Industrial Heartland. It was found that the isolated L_{eq} Night broadband and 1/3 octave band L_{eq} sound levels, from at least one (1) over-night period, were similar to those from previous measurements.

The noise levels at most locations consisted of low frequency components with occasional mid/high frequency components that could be attributed to the nearest facility relative to each individual noise monitoring location. Despite the noise being relatively low in frequency, none of the sites indicated any low frequency tonal components. The noise from train passages were again prevalent at all locations and tended to dominate the noise climate as they passed through, particularly when there were train whistles. Though the train passages were not as often subjectively observed during the site visits in comparison to previous years, the isolation analysis indicated a similar number of rail passages when compared to 2015.



8.0 <u>References</u>

- Environmental Noise Survey for the Regional Noise Model Annual Field Validation Monitoring, prepared for the NCIA by aci Acoustical Consultants Inc., December 3, 2015.
- Alberta Energy Regulator (AER), Directive 038 on Noise Control, 2007, Calgary, Alberta
- International Organization for Standardization (ISO), *Standard 1996-1, Acoustics Description,* measurement and assessment of environmental noise – Part 1: Basic quantities and assessment procedures, 2003, Geneva Switzerland.
- International Organization for Standardization (ISO), *Standard* 9613-1, *Acoustics Attenuation of* sound during propagation outdoors Part 1: Calculation of absorption of sound by the atmosphere, 1993, Geneva Switzerland.
- International Organization for Standardization (ISO), Standard 9613-2, Acoustics Attenuation of sound during propagation outdoors Part 2: General method of calculation, 1996, Geneva Switzerland.



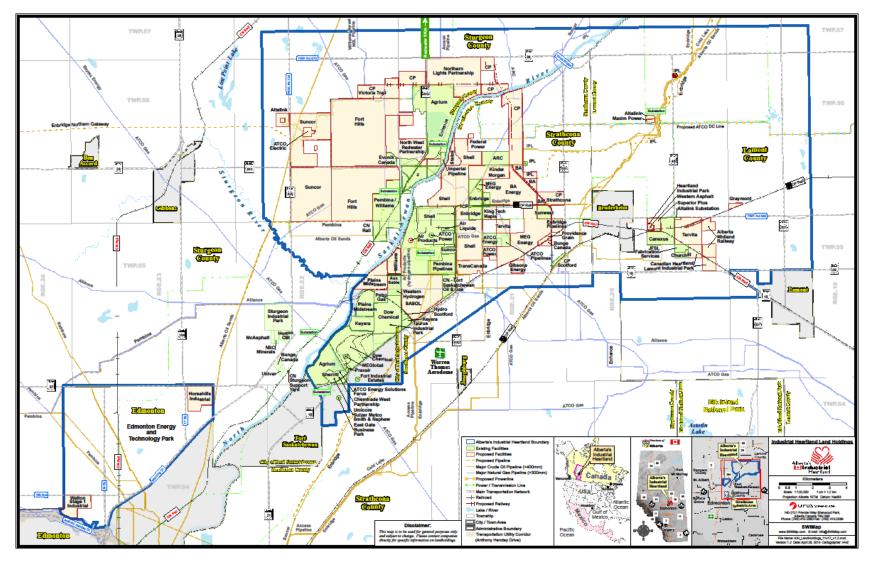


Figure 1. Study Area



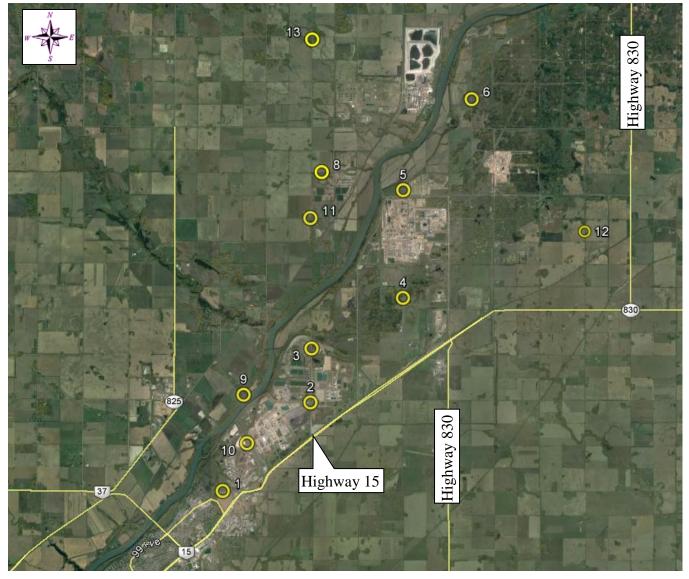


Figure 2. 2015 Study Area (With Noise Monitoring Locations)



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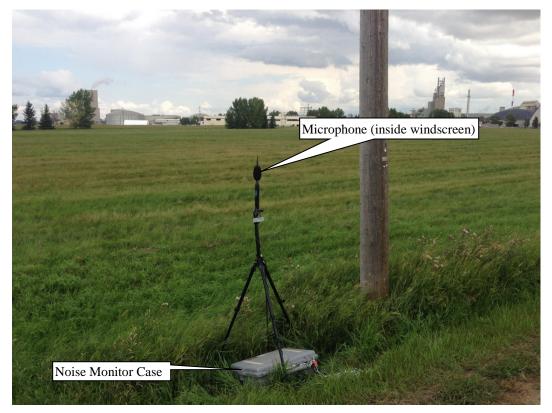


Figure 3. Noise Monitor #1



Figure 4. Noise Monitor #2





Figure 5. Noise Monitor #3

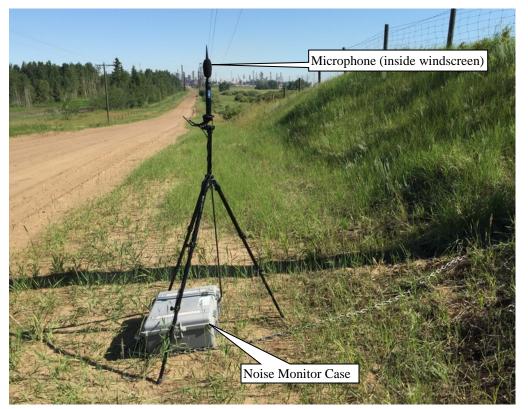


Figure 6. Noise Monitor #4





Figure 7. Noise Monitor #5

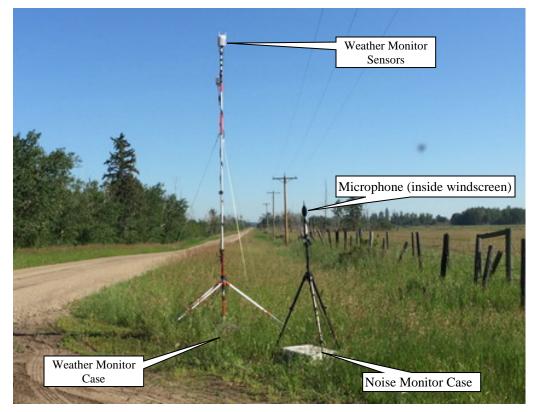


Figure 8. Noise Monitor #6 (With Weather Monitor)



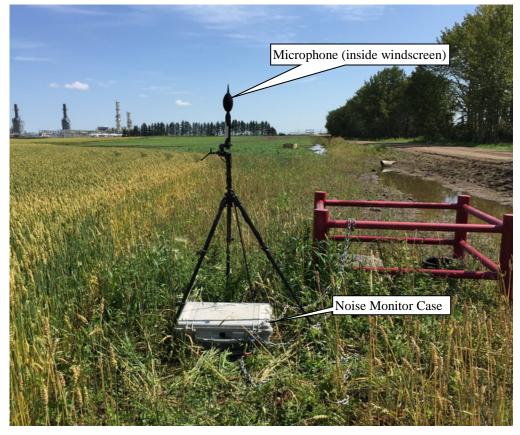


Figure 9. Noise Monitor #8

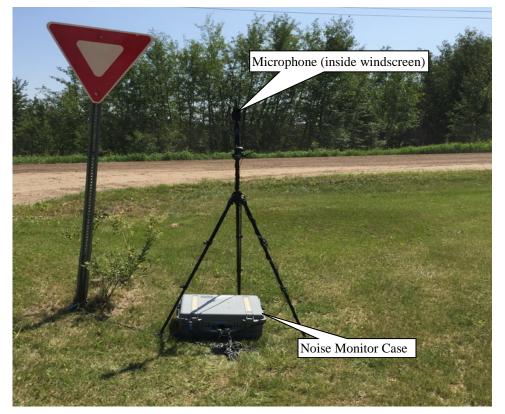


Figure 10. Noise Monitor #9



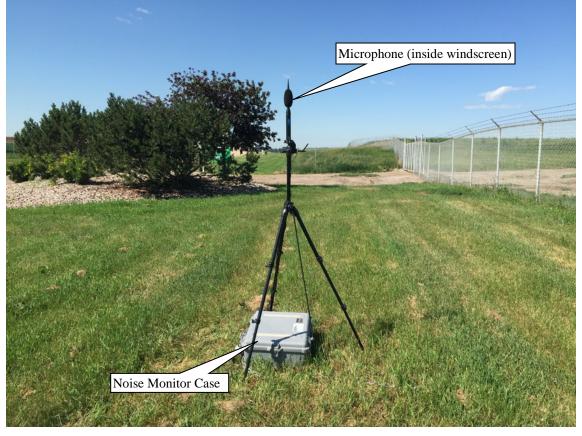


Figure 11. Noise Monitor #10

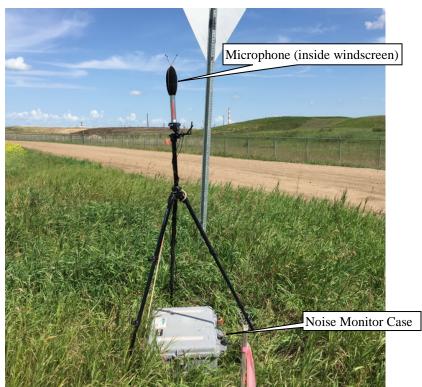


Figure 12. Noise Monitor #11



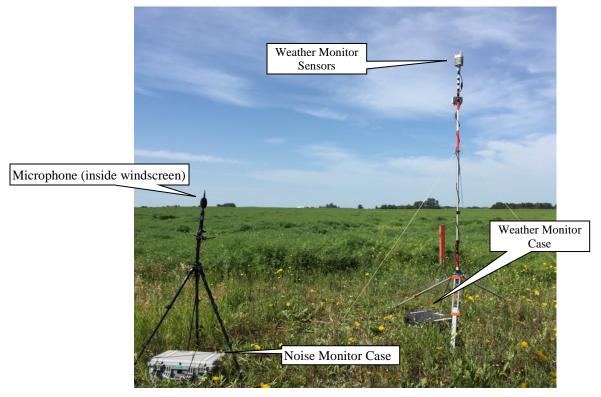


Figure 13. Noise Monitor #12 (With Weather Monitor)

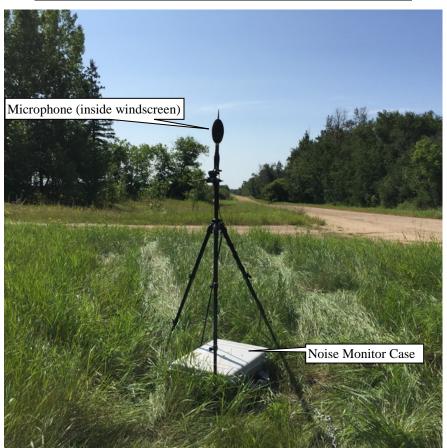
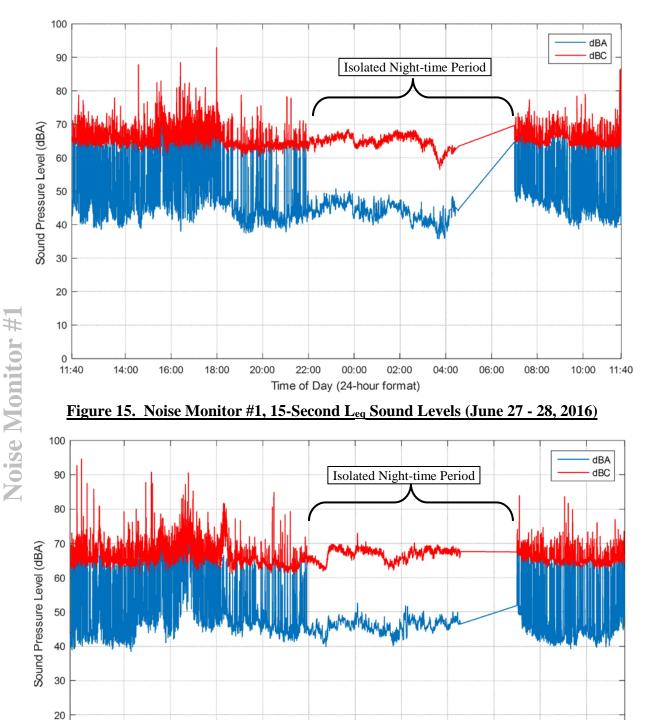


Figure 14. Noise Monitor #13







10

0

11:40

14:00

16:00

18:00

20:00

00:00

Time of Day (24-hour format)

Figure 16. Noise Monitor #1, 15-Second Leg Sound Levels (June 28 - 29, 2016)

22:00

02:00

04:00

06:00

08:00

10:00

11:40

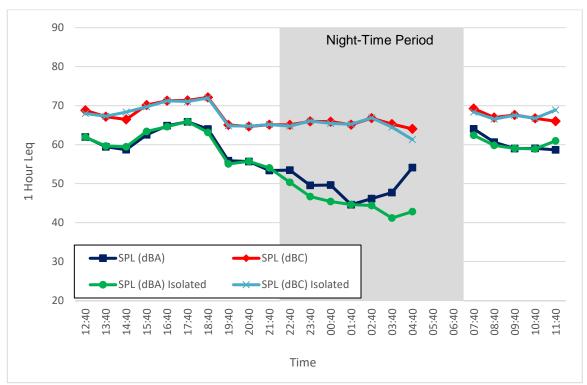


Figure 17. Noise Monitor #1, 1-Hour Leg Sound Levels (June 27 - 28, 2016)¹

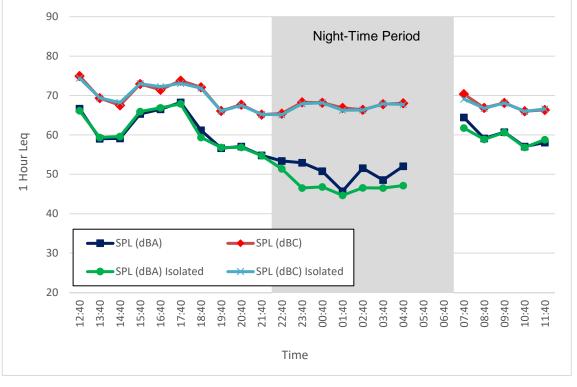


Figure 18. Noise Monitor #1, 1-Hour Leq Sound Levels (June 28 - 29, 2016)¹

¹ Again, it should be noted that data from 04:34 to 07:00 was entirely removed due to traffic along the adjacent road.



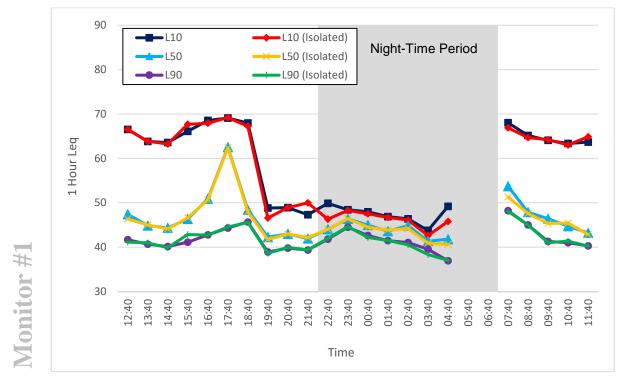


Figure 19. Noise Monitor #1, 1-Hour L10, L50, L90 Leg Sound Levels (June 27 - 28, 2016)¹

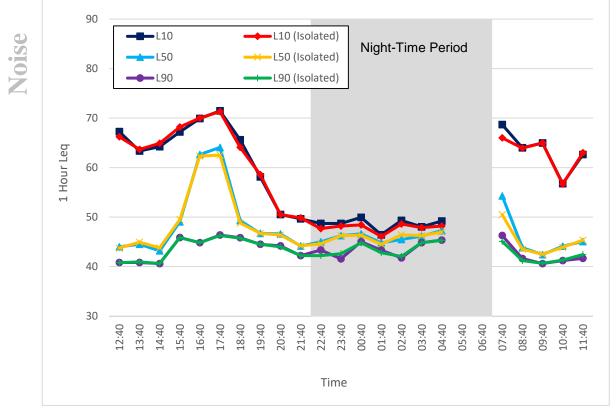
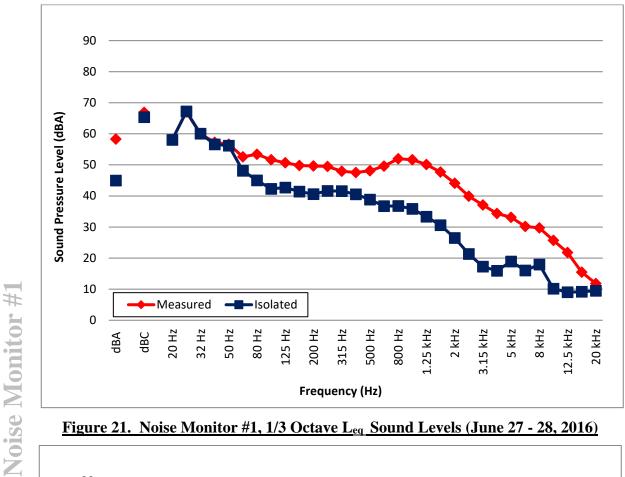


Figure 20. Noise Monitor #1, 1-Hour L₁₀, L₅₀, L₉₀ L_{eq} Sound Levels (June 28 - 29, 2016)¹

¹ Again, it should be noted that data from 04:34 to 07:00 was entirely removed due to traffic along the adjacent road.





90 80 70 Sound Pressure Level (dBA) 60 50 40 30 20 10 Measured Isolated _

Figure 21. Noise Monitor #1, 1/3 Octave Leq_Sound Levels (June 27 - 28, 2016)

Figure 22. Noise Monitor #1, 1/3 Octave Leg Sound Levels (June 28 - 29, 2016)

315 Hz

Frequency (Hz)

500 Hz

800 Hz

1.25 kHz

3.15 kHz

2 kHz

5 kHz

8 kHz



0

dBA

20 Hz

dBC

32 Hz

50 Hz

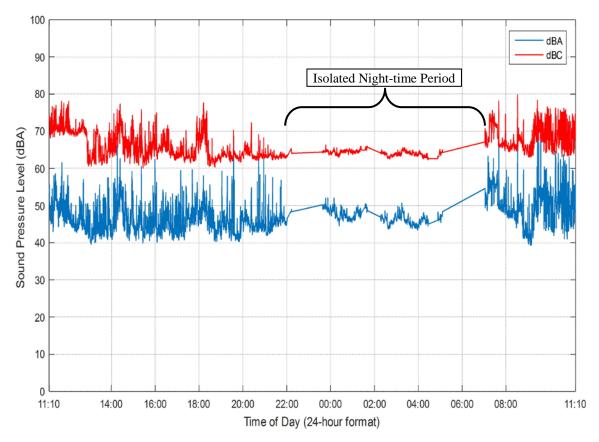
80 Hz

125 Hz

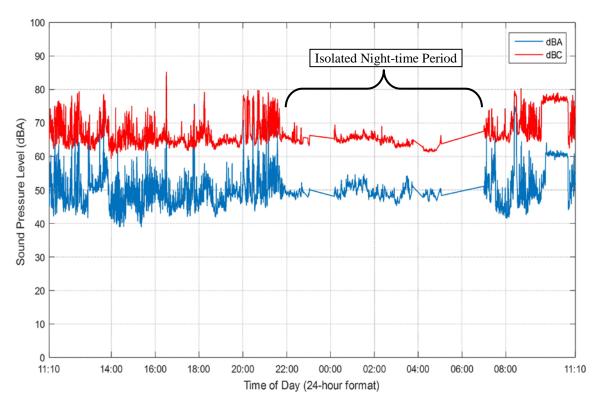
200 Hz

20 kHz

12.5 kHz











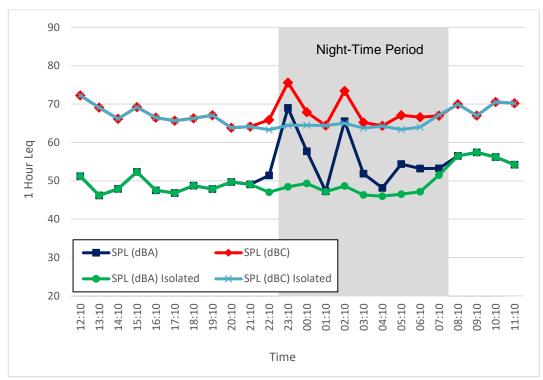


Figure 25. Noise Monitor #2, 1-Hour Leg Sound Levels (June 27 - 28, 2016) 1

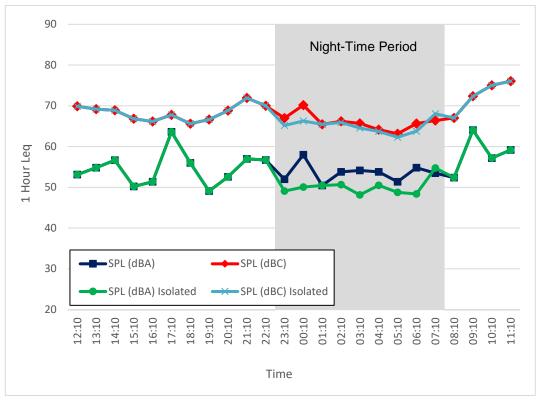


Figure 26. Noise Monitor #2, 1-Hour Leg Sound Levels (June 28 - 29, 2016)²

² Data from 05:03 to 07:00 was entirely removed due to traffic along the adjacent road.



¹ Data from 05:13 to 07:00 was entirely removed due to traffic along the adjacent road.

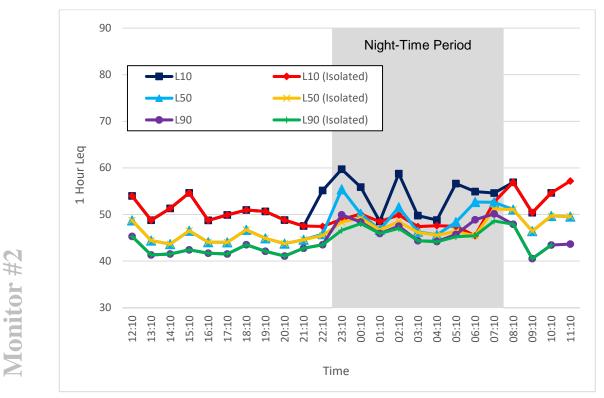


Figure 27. Noise Monitor #2, 1-Hour L10, L50, L90 Leg Sound Levels (June 27 - 28, 2016)¹

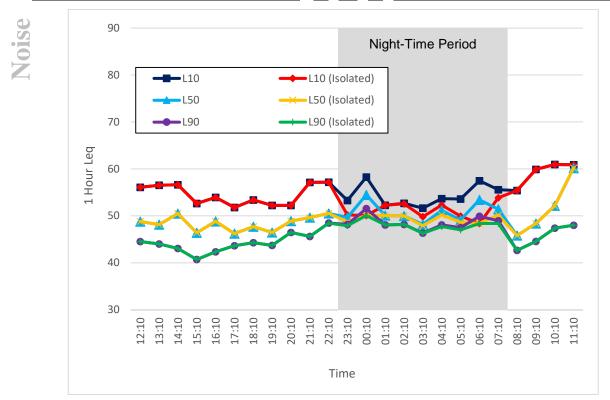
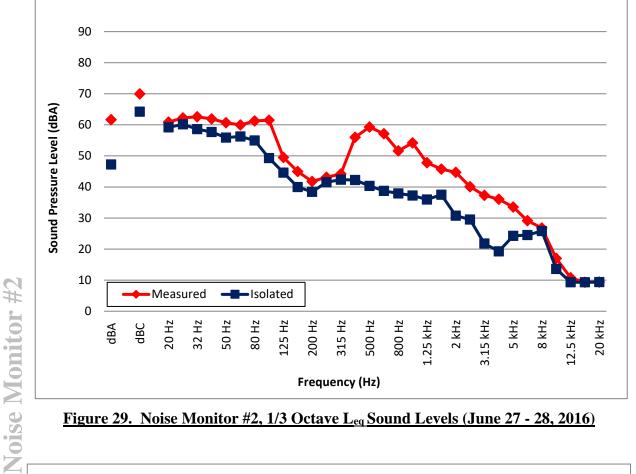


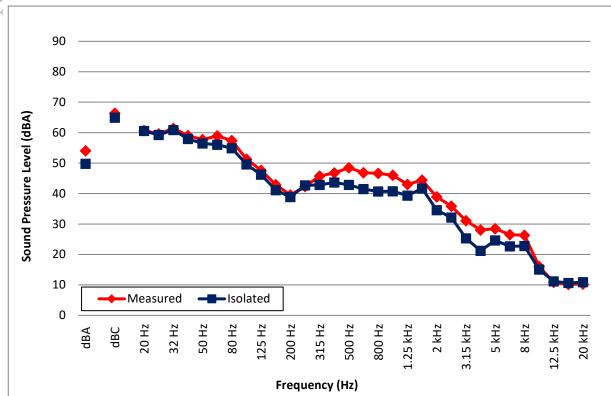
Figure 28. Noise Monitor #2, 1-Hour L10, L50, L90 Leq Sound Levels (June 28 - 29, 2016)²

¹ Data from 05:13 to 07:00 was entirely removed due to traffic along the adjacent road.

 2 Data from 05:03 to 07:00 was entirely removed due to traffic along the adjacent road.







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Figure 30. Noise Monitor #2, 1/3 Octave Leq Sound Levels (June 28 - 29, 2016)



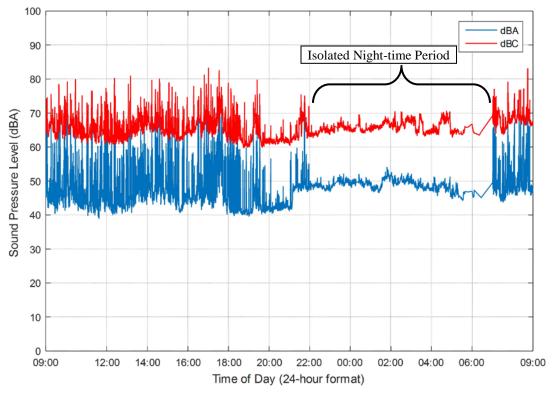


Figure 31. Noise Monitor #3, 15-Second Leq Sound Levels (August 2 - 3, 2016)

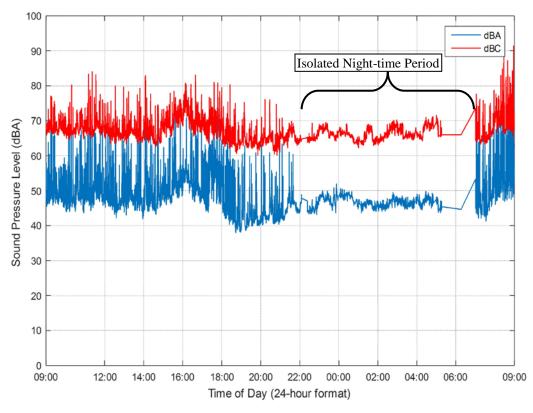


Figure 32. Noise Monitor #3, 15-Second Leg Sound Levels (August 3 - 4, 2016)



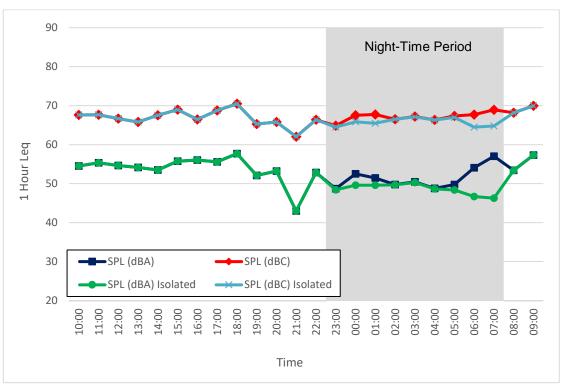


Figure 33. Noise Monitor #3, 1-Hour Leq Sound Levels (August 2 - 3, 2016)

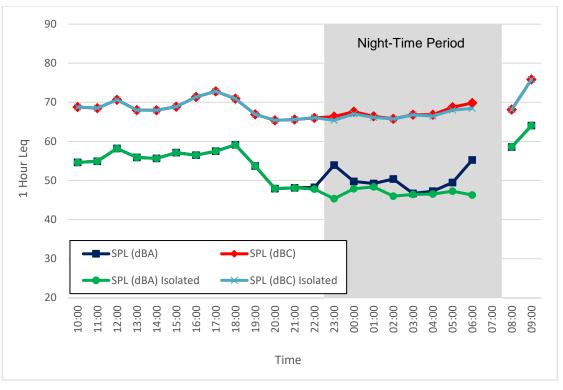


Figure 34. Noise Monitor #3, 1-Hour Leg Sound Levels (August 3 - 4, 2016) 1

¹ Again, it should be noted that data from 05:16 to 07:00 was entirely removed due to traffic along the adjacent road.



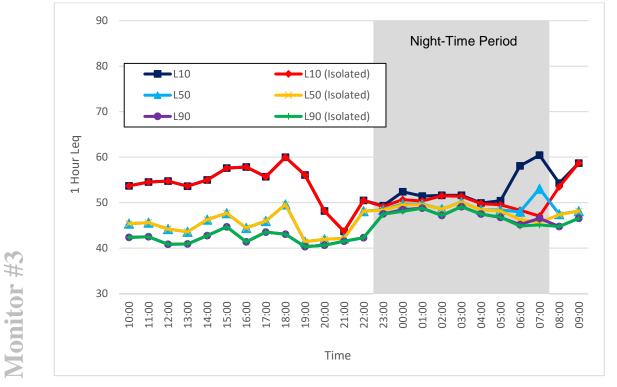


Figure 35. Noise Monitor #3, 1-Hour L10, L50, L90 Leq Sound Levels (August 2 - 3, 2016)

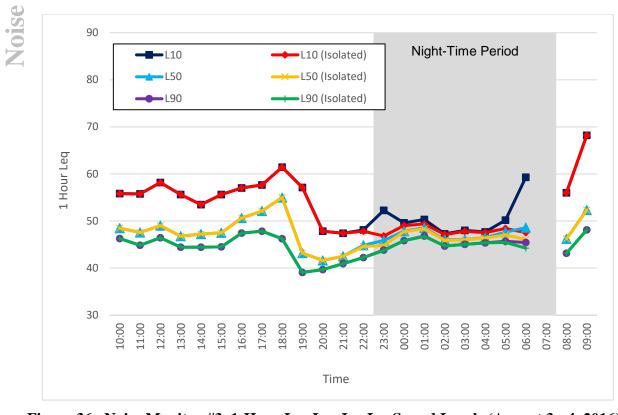
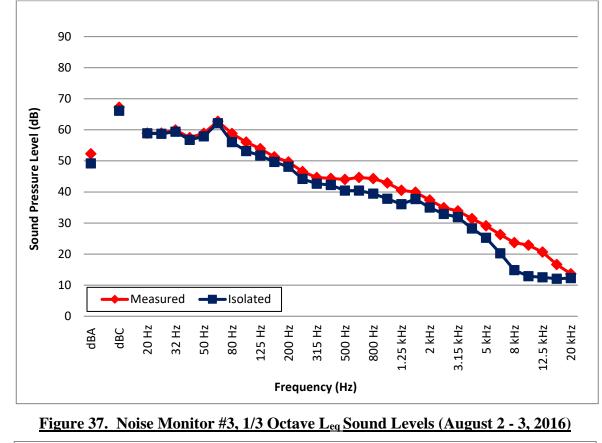


Figure 36. Noise Monitor #3, 1-Hour L₁₀, L₅₀, L₉₀ L_{eq} Sound Levels (August 3 - 4, 2016) 1/2

¹ Data from 05:16 to 07:00 was entirely removed due to traffic along the adjacent road.





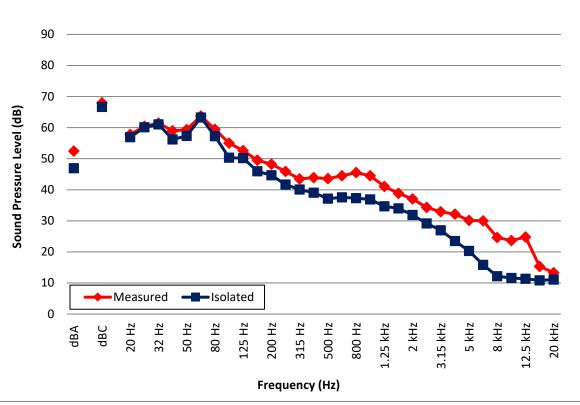
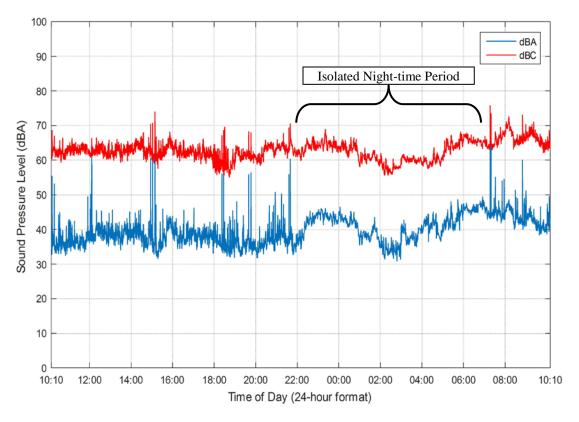


Figure 38. Noise Monitor #3, 1/3 Octave Leq Sound Levels (August 3 - 4, 2016)

41







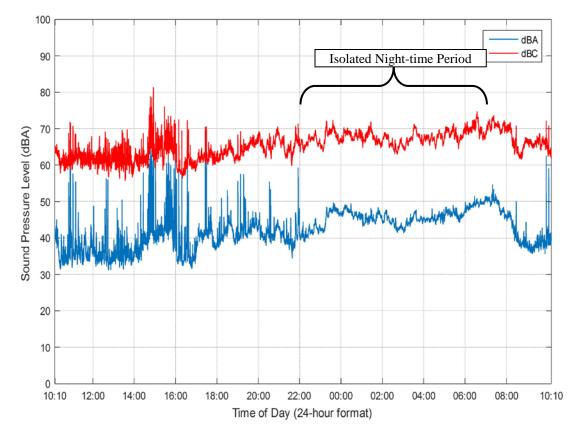
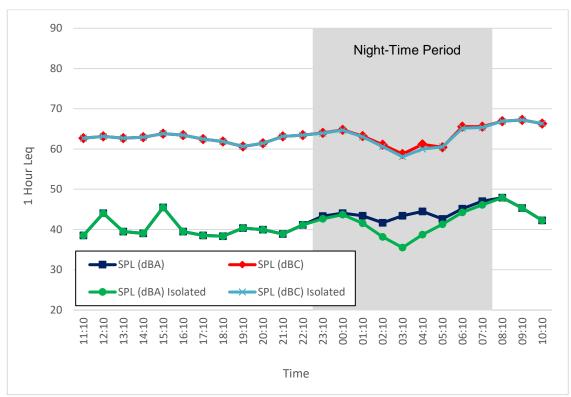


Figure 40. Noise Monitor #4, 15-Second Leg Sound Levels (June 28 - 29, 2016)







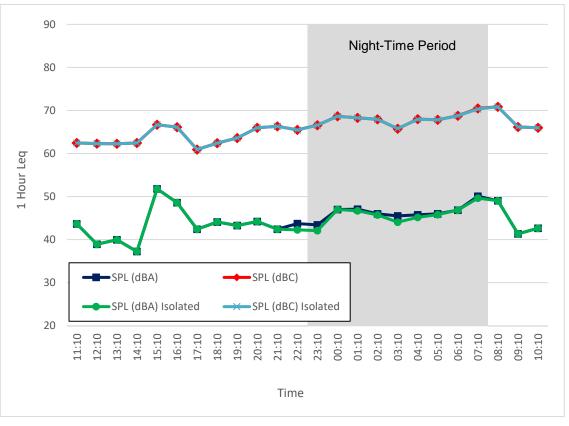


Figure 42. Noise Monitor #4, 1-Hour Leq Sound Levels (June 28 - 29, 2016)



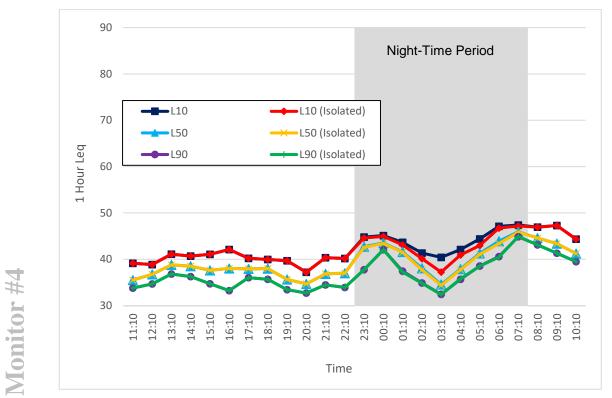


Figure 43. Noise Monitor #4, 1-Hour L10, L50, L90 Leq Sound Levels (June 27 - 28, 2016)

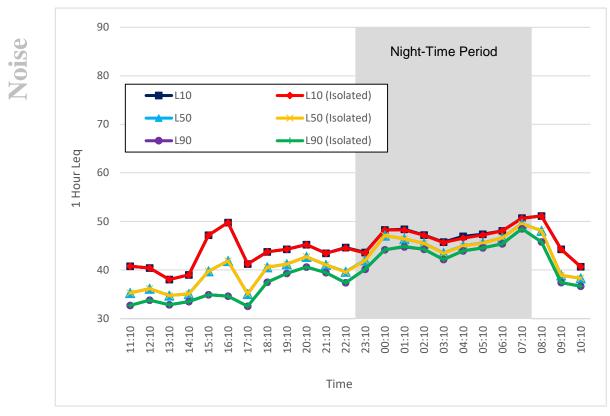


Figure 44. Noise Monitor #4, 1-Hour L10, L50, L90 Leq Sound Levels (June 28 - 29, 2016)



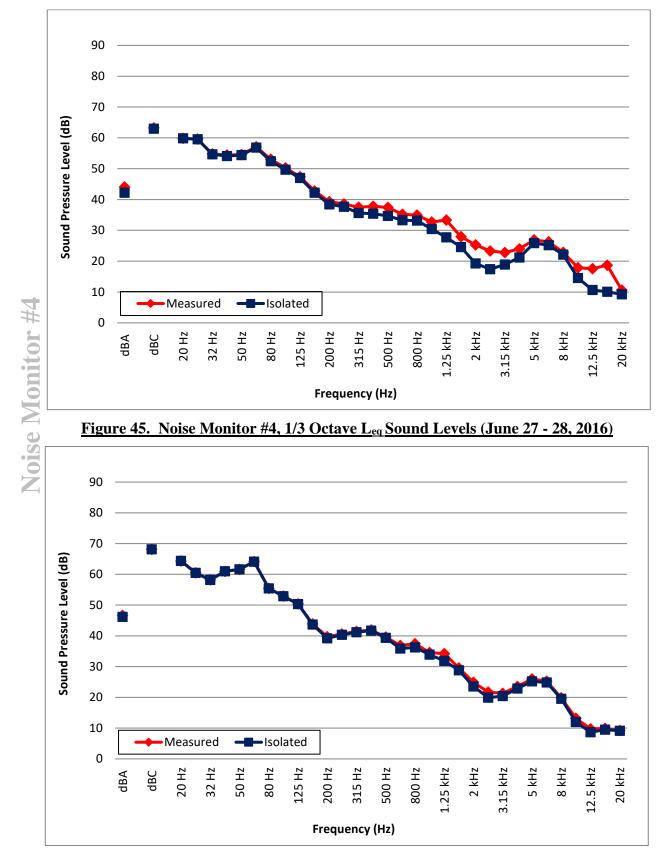


Figure 46. Noise Monitor #4, 1/3 Octave Leg Sound Levels (June 28 - 29, 2016)



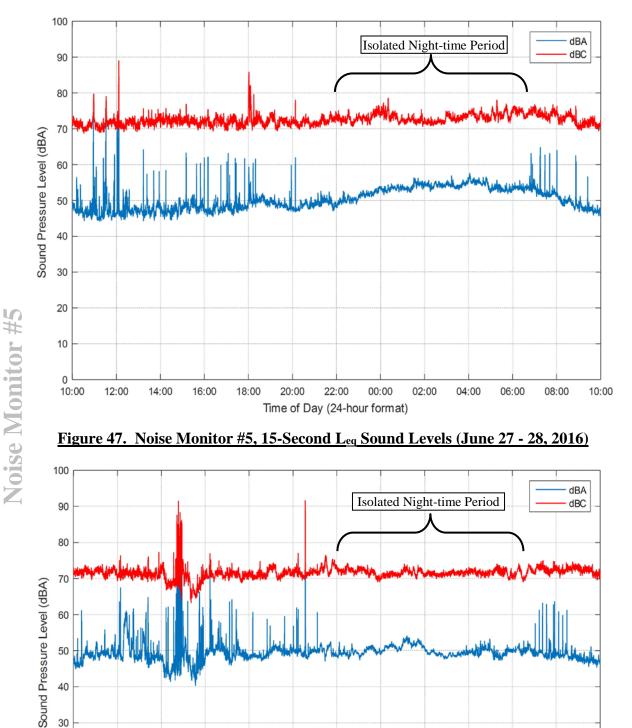


Figure 48. Noise Monitor #5, 15-Second Leg Sound Levels (June 28 - 29, 2016)

22:00

Time of Day (24-hour format)

00:00

02:00

04:00

06:00

08:00



30

20

10

0 10:00

12:00

14:00

16:00

18:00

20:00

10:00

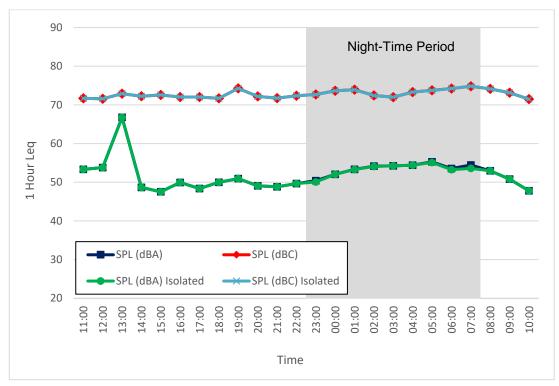


Figure 49. Noise Monitor #5, 1-Hour Leq Sound Levels (June 27 - 28, 2016)

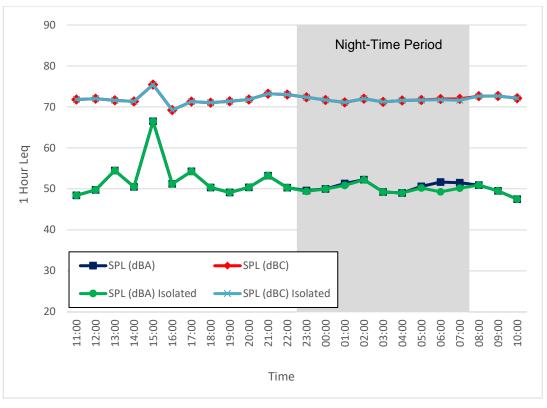


Figure 50. Noise Monitor #5, 1-Hour Leq Sound Levels (June 28 - 29, 2016)



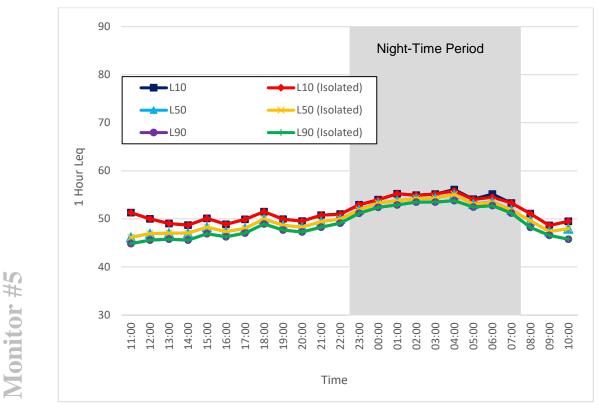


Figure 51. Noise Monitor #5, 1-Hour L10, L50, L90 Leq Sound Levels (June 27 - 28, 2016)

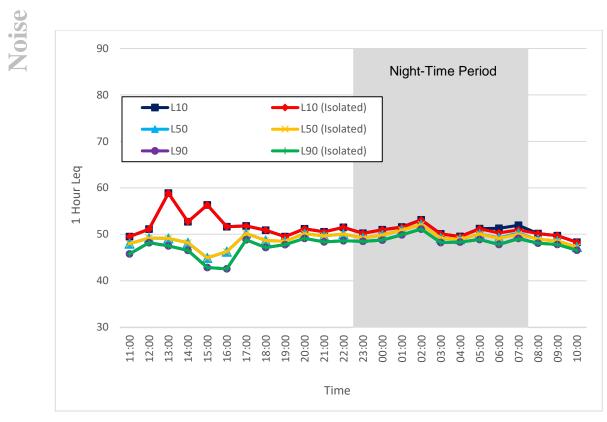
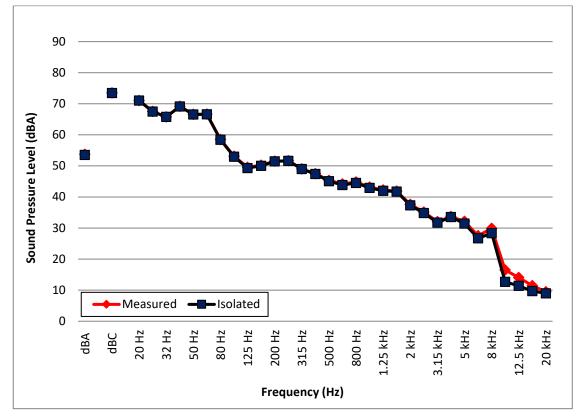


Figure 52. Noise Monitor #5, 1-Hour L₁₀, L₅₀, L₉₀ L_{eq} Sound Levels (June 28 - 29, 2016)





Noise Monitor #5

Figure 53. Noise Monitor #5, 1/3 Octave Leq Sound Levels (June 27 - 28, 2016)

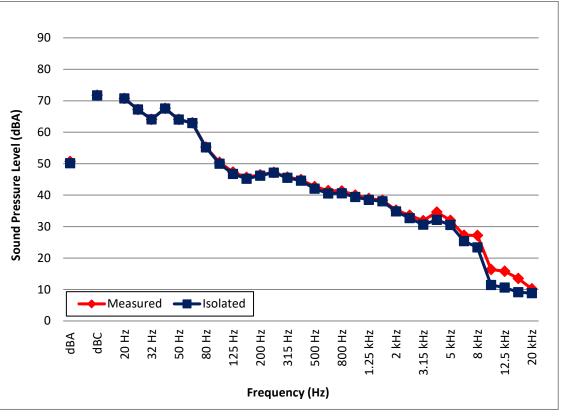


Figure 54. Noise Monitor #5, 1/3 Octave Leq Sound Levels (June 28 - 29, 2016)

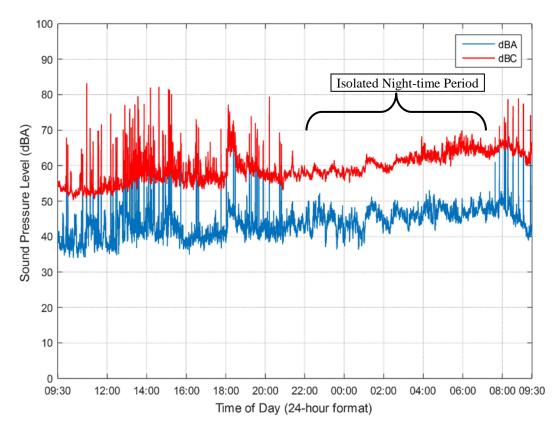


Figure 55. Noise Monitor #6, 15-Second Leg Sound Levels (June 27 - 28, 2016)

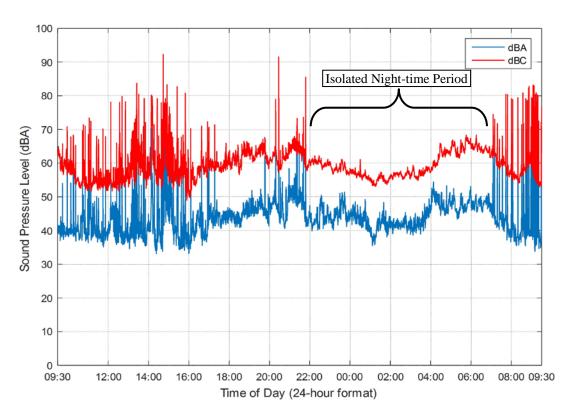


Figure 56. Noise Monitor #6, 15-Second Leq Sound Levels (June 28 - 29, 2016)



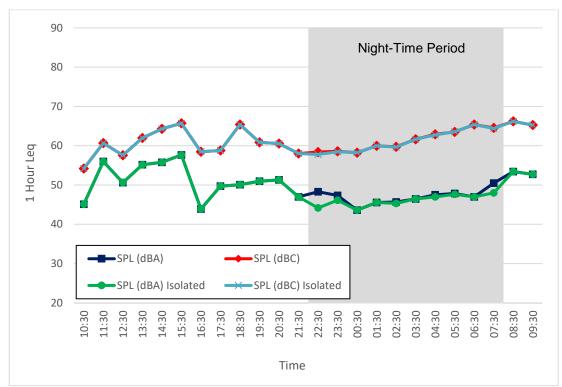


Figure 57. Noise Monitor #6, 1-Hour Leq Sound Levels (June 27 - 28, 2016)

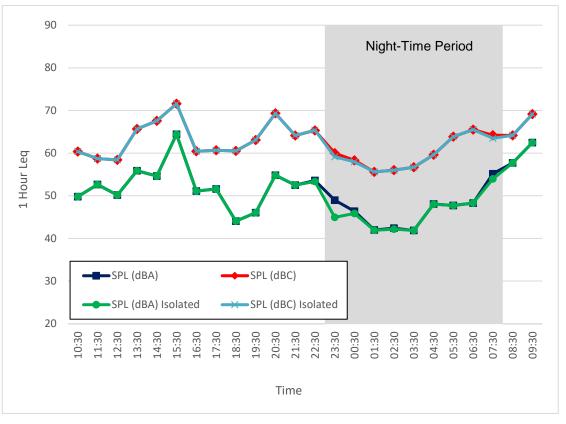


Figure 58. Noise Monitor #6, 1-Hour Leq Sound Levels (June 28 - 29, 2016)



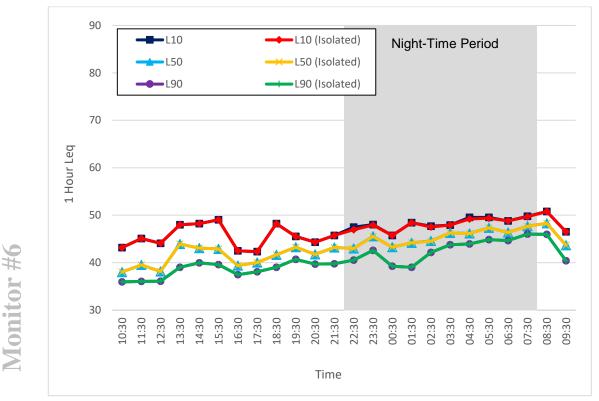


Figure 59. Noise Monitor #6, 1-Hour L10, L50, L90 Leq Sound Levels (June 27 - 28, 2016) Noise 90 L10 (Isolated) Night-Time Period L10 L50 (Isolated) L50 80 L90 (Isolated) L90 70 1 Hour Leg 60 50 40 30 10:30 11:30 12:30 18:30 19:30 21:30 22:30 23:30 13:30 14:30 15:30 16:30 17:30 20:30 00:30 01:30 02:30 03:30 04:30 05:30 06:30 07:30 08:30 09:30 Time

Figure 60. Noise Monitor #6, 1-Hour L10, L50, L90 Leq Sound Levels (June 28 - 29, 2016)



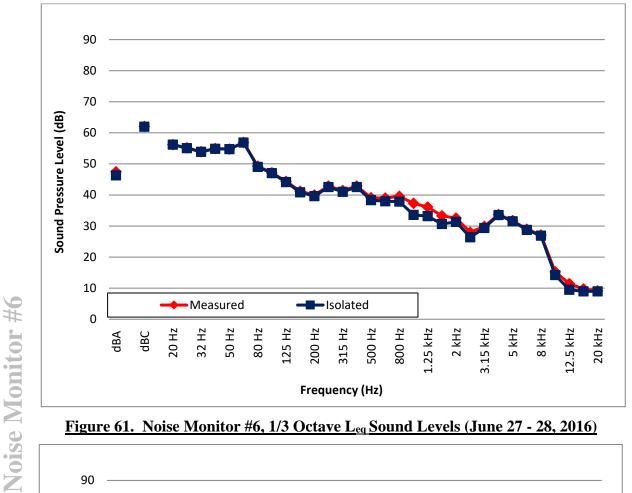


Figure 61. Noise Monitor #6, 1/3 Octave Leq Sound Levels (June 27 - 28, 2016)

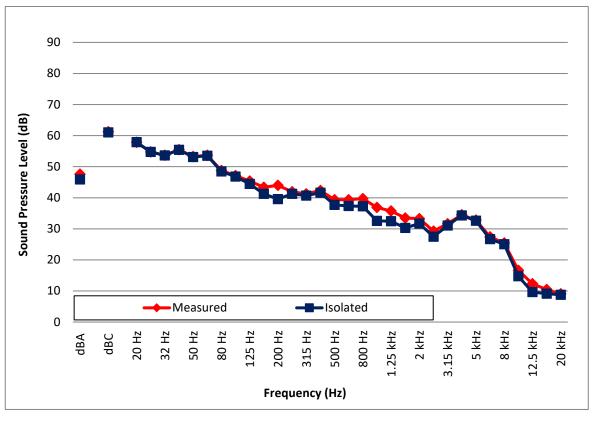


Figure 62. Noise Monitor #6, 1/3 Octave Leq Sound Levels (June 28 - 29, 2016)



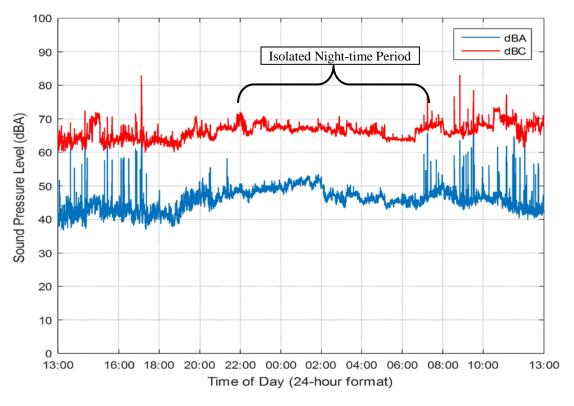


Figure 63. Noise Monitor #8, 15-Second Leg Sound Levels (August 2 - 3, 2016)

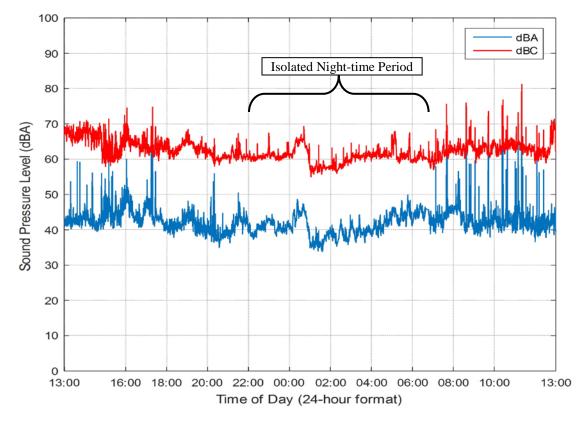
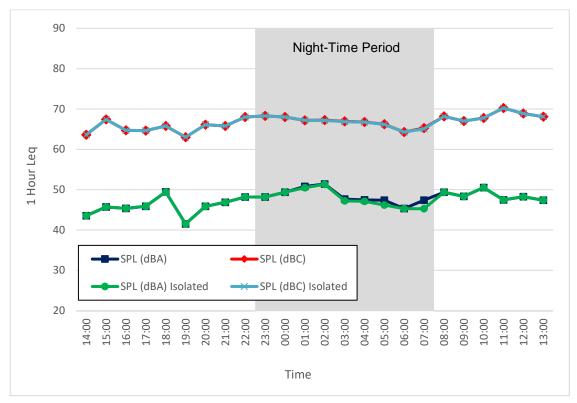


Figure 64. Noise Monitor #8, 15-Second Leg Sound Levels (August 3 - 4, 2016)





Noise Monitor #8

Figure 65. Noise Monitor #8, 1-Hour Leq Sound Levels (August 2 - 3, 2016)

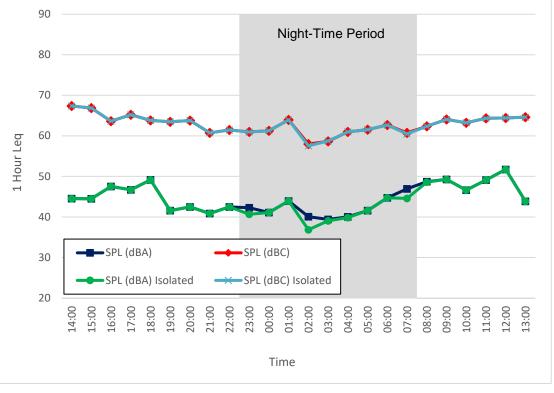


Figure 66. Noise Monitor #8, 1-Hour Leq Sound Levels (August 3 - 4, 2016)



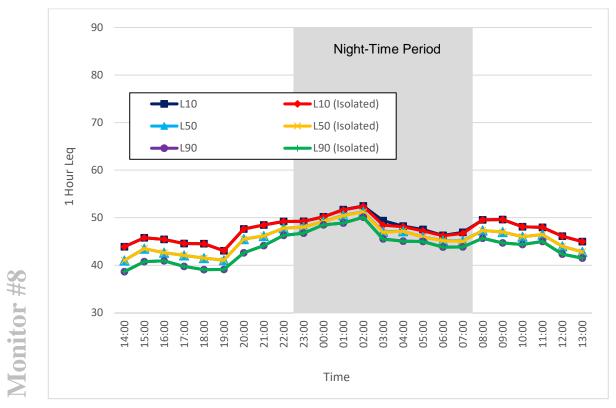


Figure 67. Noise Monitor #8, 1-Hour L10, L50, L90 Leq Sound Levels (August 2 - 3, 2016)

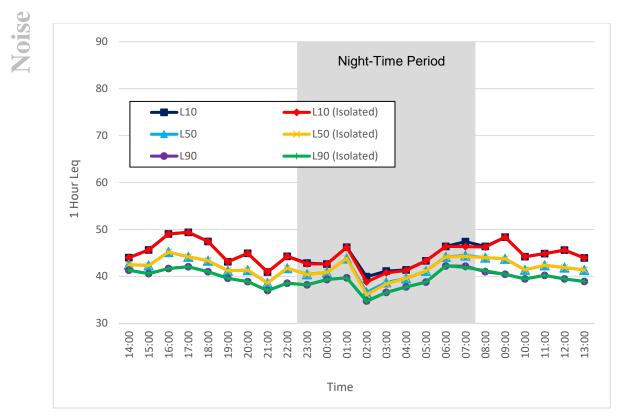


Figure 68. Noise Monitor #8, 1-Hour L₁₀, L₅₀, L₉₀ L_{eq} Sound Levels (August 3 - 4, 2016)



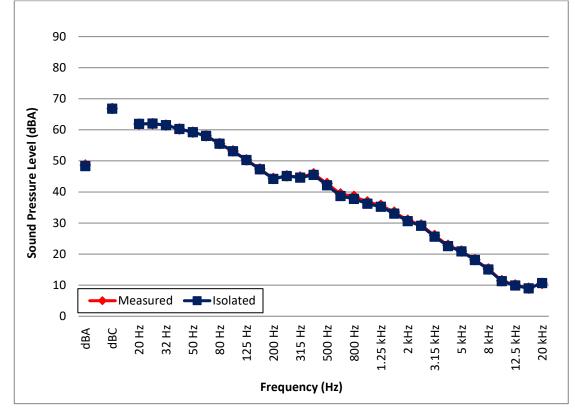


Figure 69. Noise Monitor #8, 1/3 Octave Leg Sound Levels (August 2 - 3, 2016)

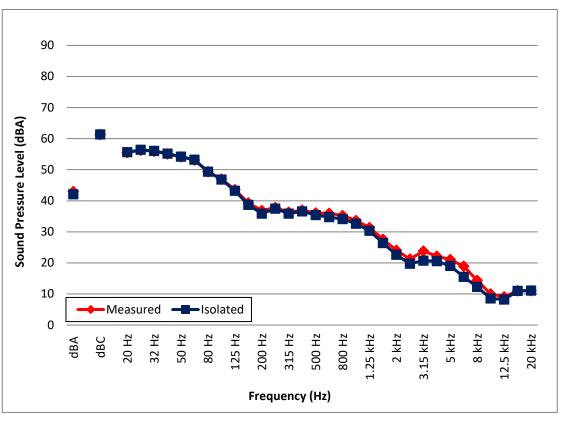


Figure 70. Noise Monitor #8, 1/3 Octave Leg Sound Levels (August 3 - 4, 2016)



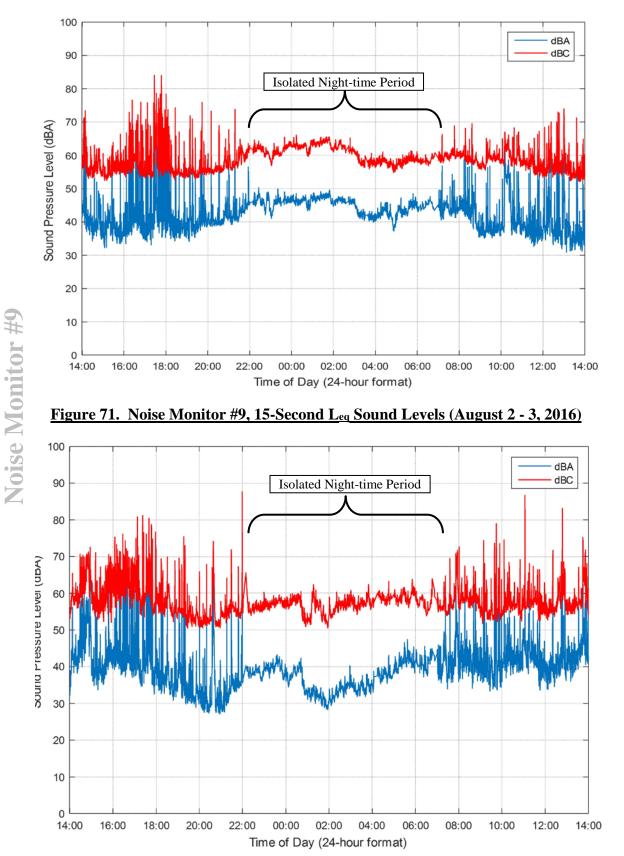


Figure 72. Noise Monitor #9, 15-Second Leg Sound Levels (August 3 - 4, 2016)



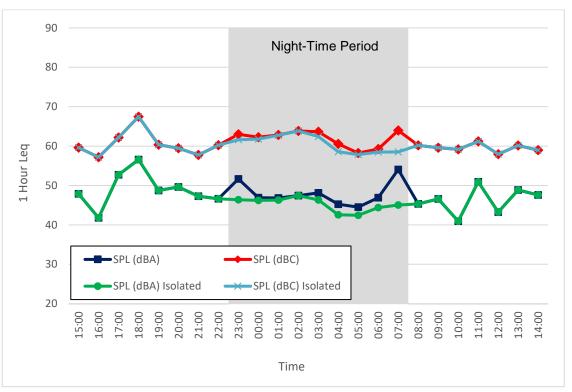


Figure 73. Noise Monitor #9, 1-Hour Leq Sound Levels (August 2 - 3, 2016)

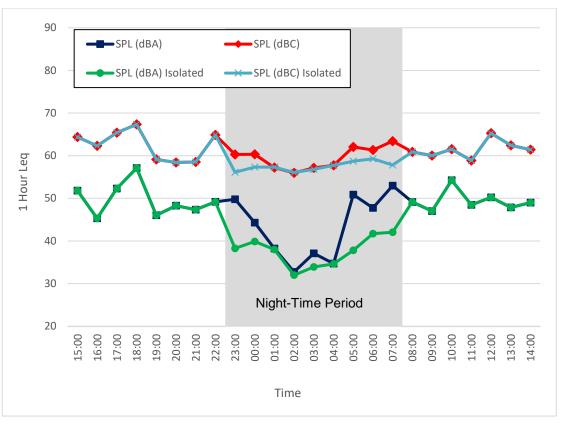


Figure 74. Noise Monitor #9, 1-Hour Leq Sound Levels (August 3 - 4, 2016)



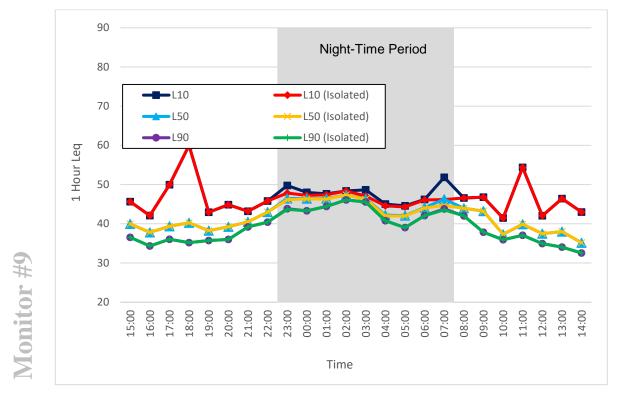


Figure 75. Noise Monitor #9, 1-Hour L₁₀, L₅₀, L₉₀ L_{eq} Sound Levels (August 2 - 3, 2016)

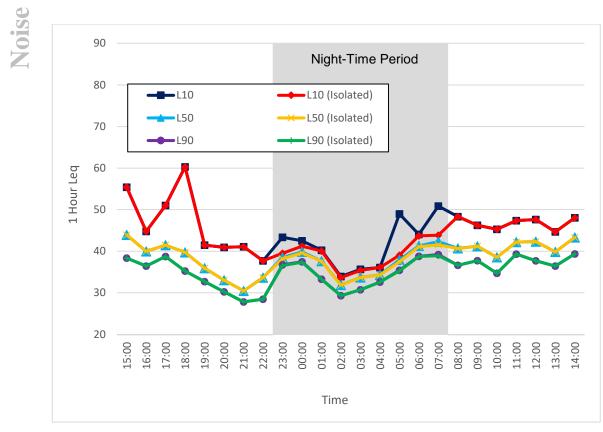


Figure 76. Noise Monitor #9, 1-Hour L₁₀, L₅₀, L₉₀ L_{eq} Sound Levels (August 3 - 4, 2016)



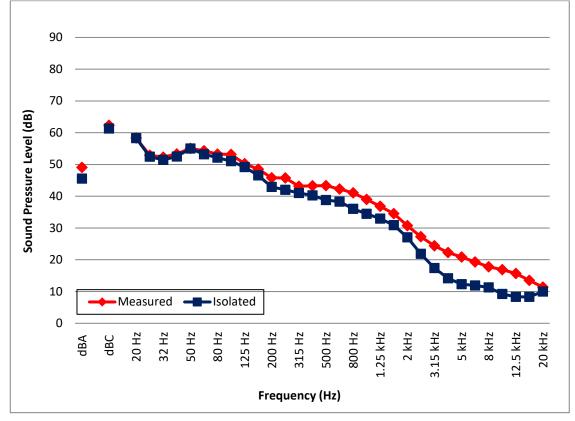


Figure 77. Noise Monitor #9, 1/3 Octave Leg Sound Levels (August 2 - 3, 2016)

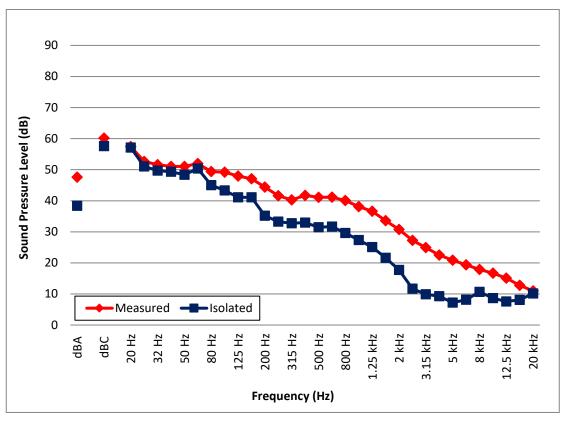
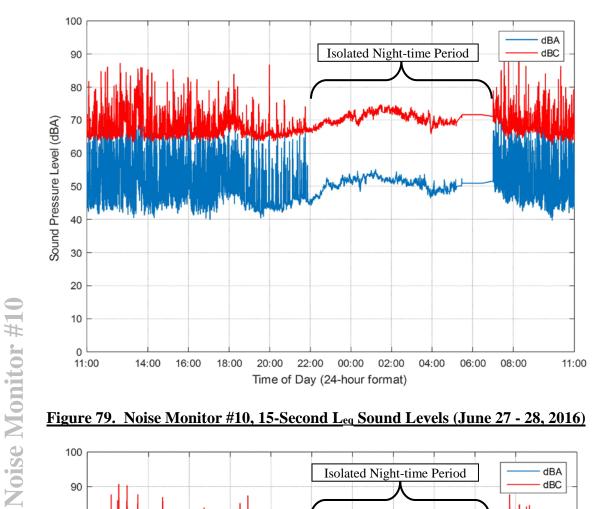


Figure 78. Noise Monitor #9, 1/3 Octave Leg Sound Levels (August 3 - 4, 2016)







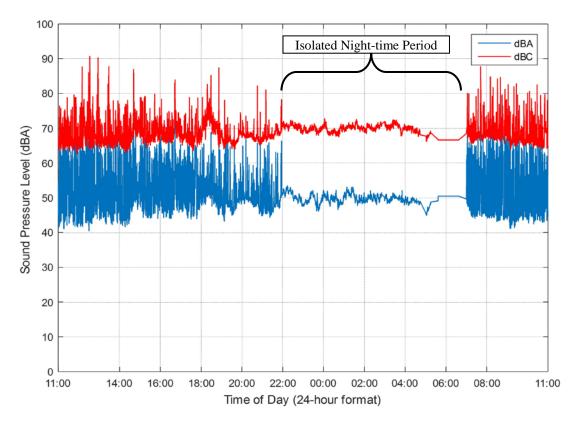


Figure 80. Noise Monitor #10, 15-Second Leg Sound Levels (June 28 - 29, 2016)



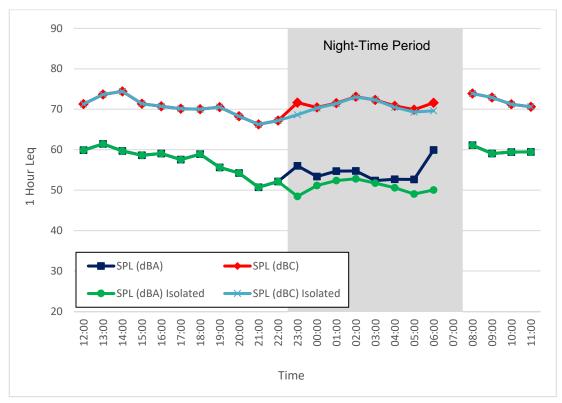


Figure 81. Noise Monitor #10, 1-Hour Leg Sound Levels (June 27 - 28, 2016)¹

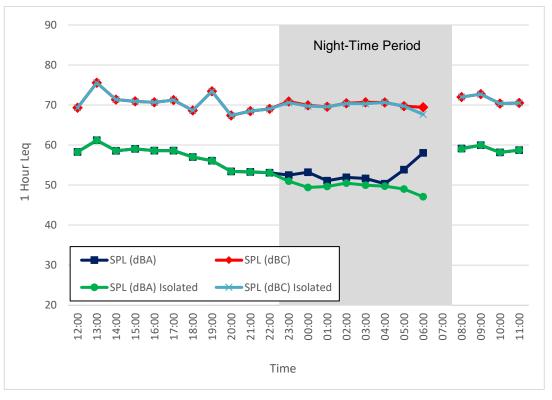


Figure 82. Noise Monitor #10, 1-Hour Leq Sound Levels (June 28 - 29, 2016)²

¹ Data from 05:30 to 07:00 was entirely removed due to traffic along the adjacent road.

 2 Data from 05:37 to 07:00 was entirely removed due to traffic along the adjacent road.



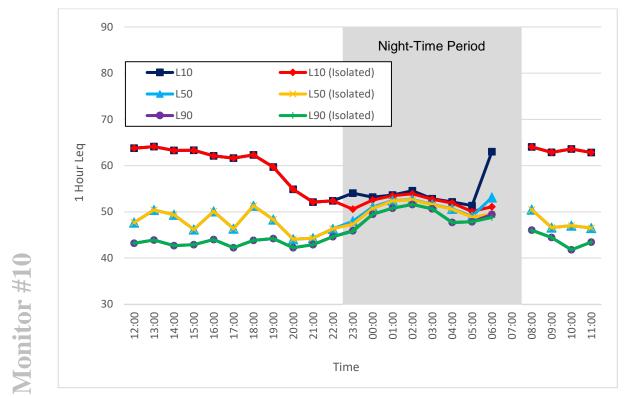


Figure 83. Noise Monitor #10, 1-Hour L10, L50, L90 Leq Sound Levels (June 27 - 28, 2016) 1

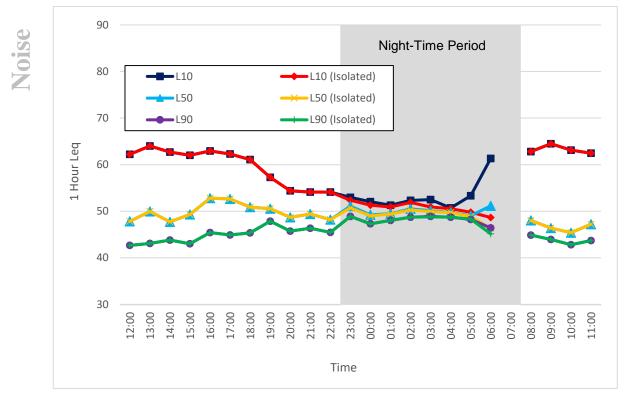


Figure 84. Noise Monitor #10, 1-Hour L10, L50, L90 Leq Sound Levels (June 28 - 29, 2016)²

² Data from 05:37 to 07:00 was entirely removed due to traffic along the adjacent road.



¹ Data from 05:30 to 07:00 was entirely removed due to traffic along the adjacent road.

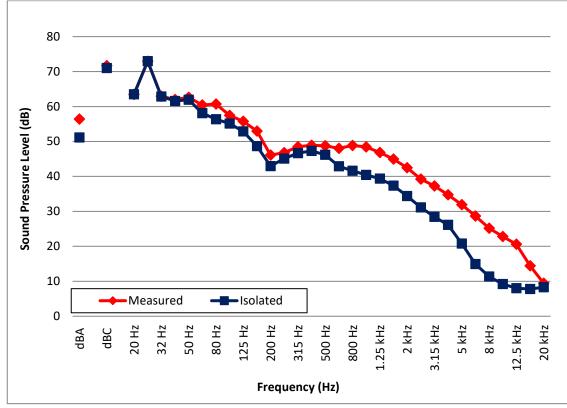


Figure 85. Noise Monitor #10, 1/3 Octave Leq Sound Levels (June 27 - 28, 2016)

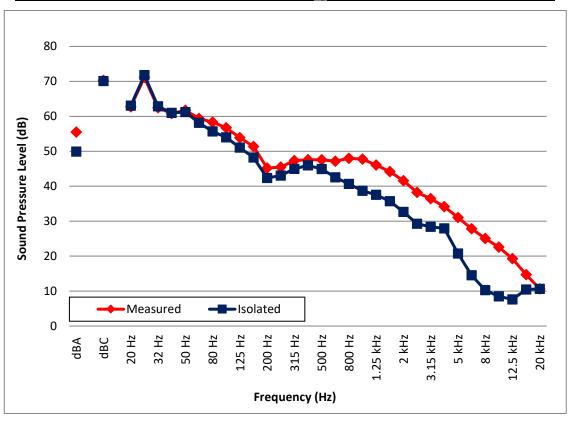


Figure 86. Noise Monitor #10, 1/3 Octave Leg Sound Levels (June 28 - 29, 2016)



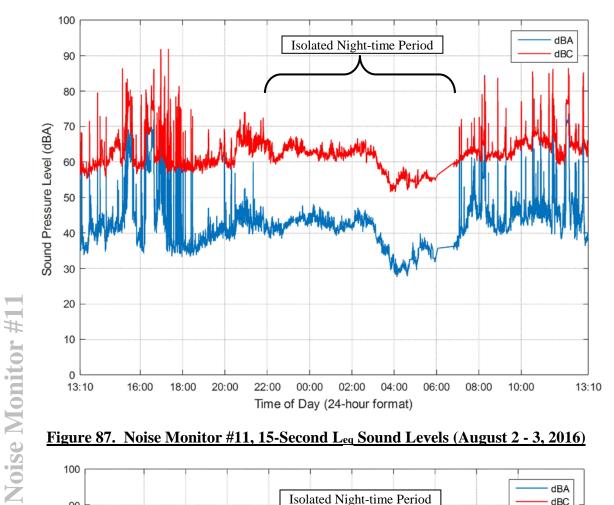


Figure 87. Noise Monitor #11, 15-Second Leg Sound Levels (August 2 - 3, 2016)

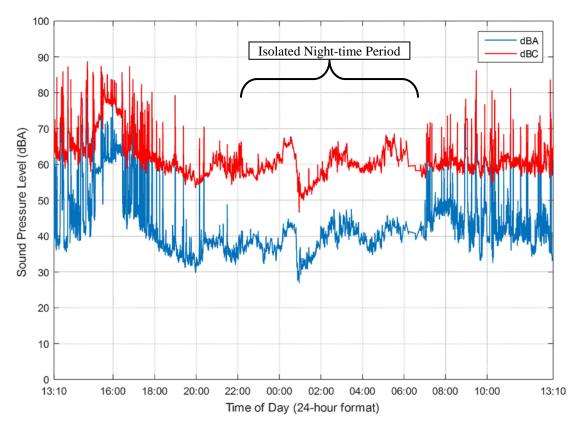


Figure 88. Noise Monitor #11, 15-Second Leq Sound Levels (August 3 - 4, 2016)



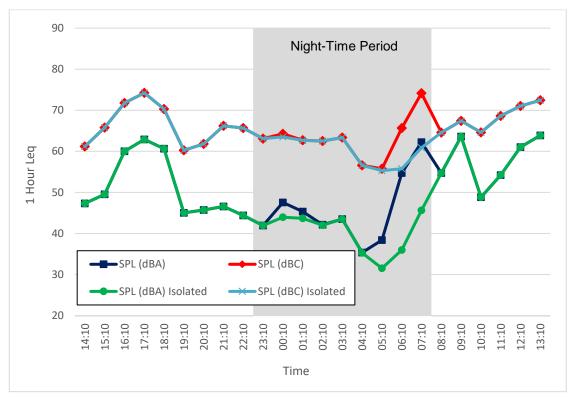


Figure 89. Noise Monitor #11, 1-Hour Leq Sound Levels (August 2 - 3, 2016)¹

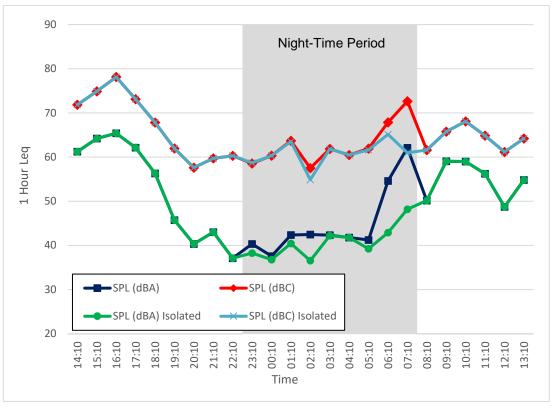


Figure 90. Noise Monitor #11, 1-Hour Leg Sound Levels (August 3 - 4, 2016)

¹ Data from 06:04 to 07:00 was entirely removed due to traffic along the adjacent road.



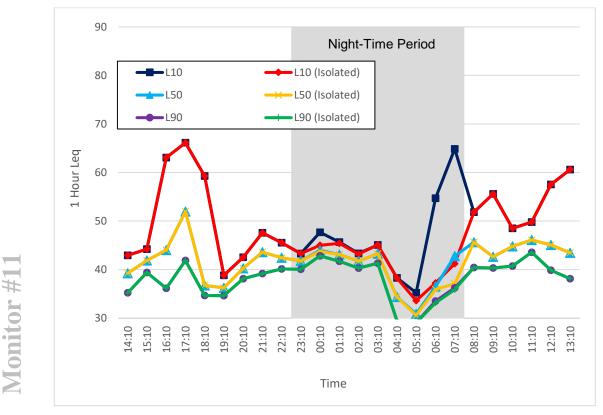


Figure 91. Noise Monitor #11, 1-Hour L10, L50, L90 Leq Sound Levels (August 2 - 3, 2016) 1

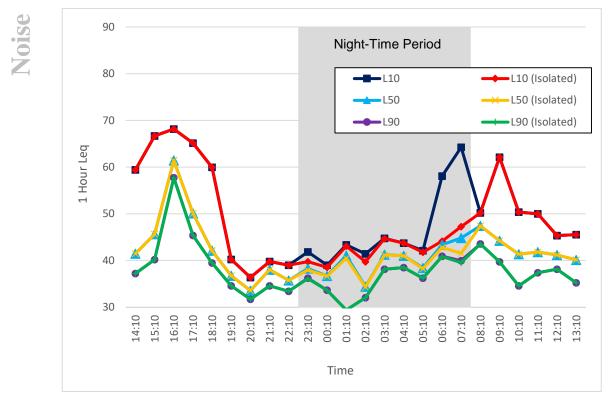


Figure 92. Noise Monitor #11, 1-Hour L10, L50, L90 Leq Sound Levels (August 3 - 4, 2016)

¹ Data from 06:04 to 07:00 was entirely removed due to traffic along the adjacent road.



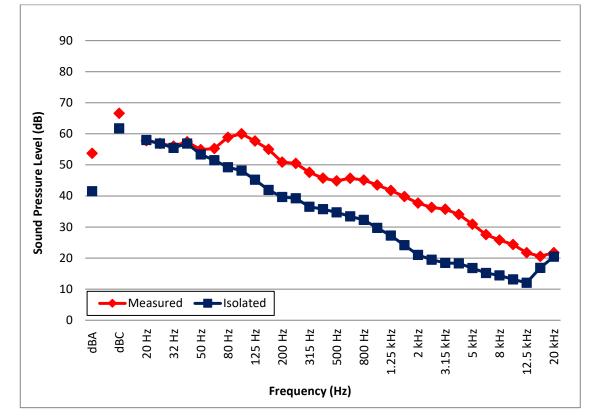


Figure 93. Noise Monitor #11, 1/3 Octave Leq Sound Levels (August 2 - 3, 2016)

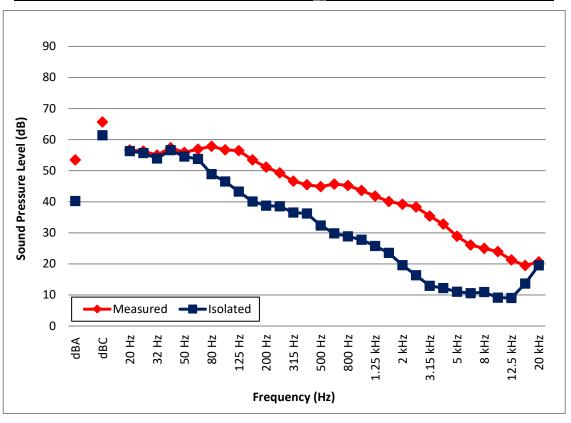
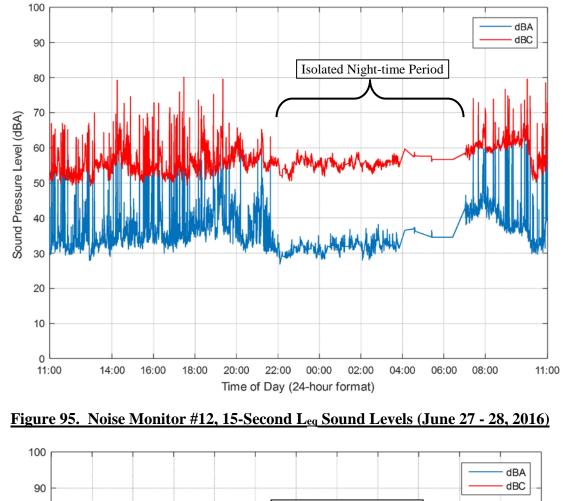


Figure 94. Noise Monitor #11, 1/3 Octave Leg Sound Levels (August 3 - 4, 2016)







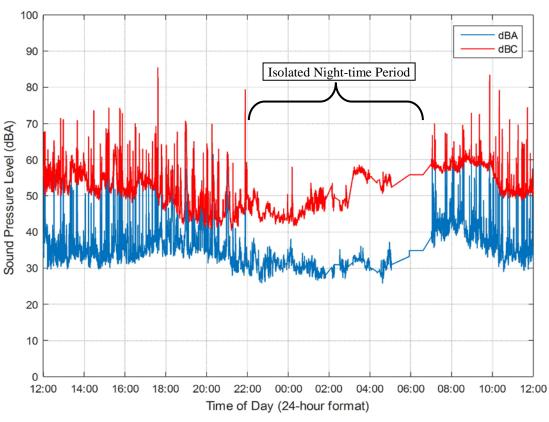
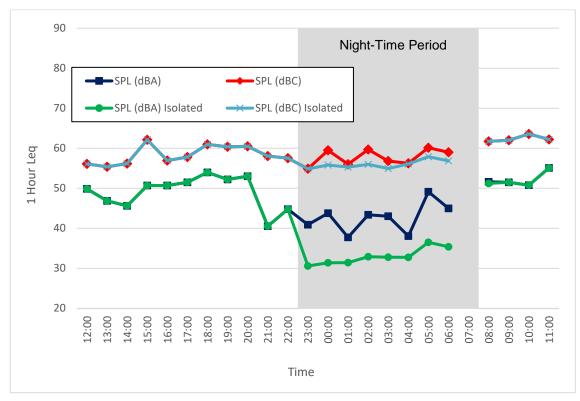


Figure 96. Noise Monitor #12, 15-Second Levels (June 28 - 29, 2016)







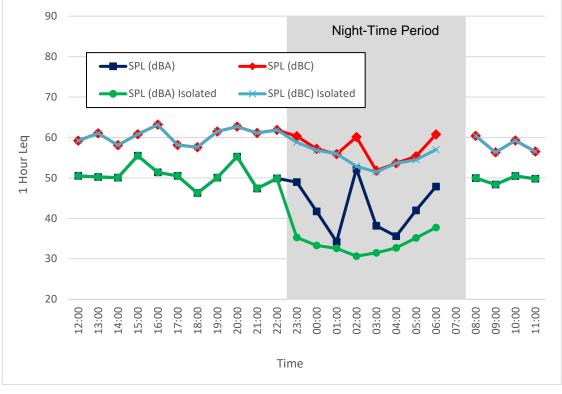


Figure 98. Noise Monitor #12, 1-Hour Leq Sound Levels (June 28 - 29, 2016)²

¹ Data from 05:25 to 07:00 was entirely removed due to traffic along the adjacent road.

² Data from 05:28 to 07:00 was entirely removed due to traffic along the adjacent road.



Noise Monitor #12 - Period

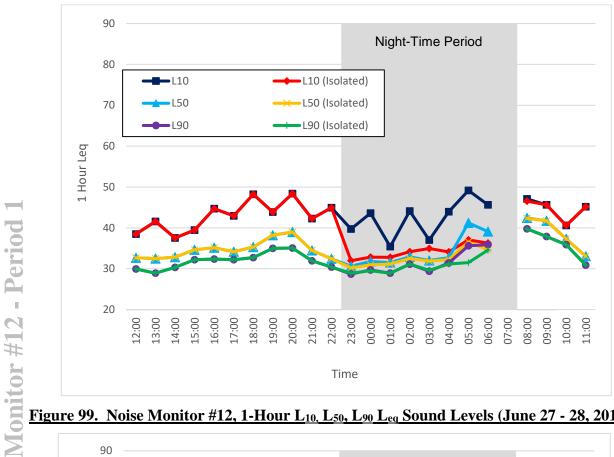


Figure 99. Noise Monitor #12, 1-Hour L₁₀, L₅₀, L₉₀ L_{eq} Sound Levels (June 27 - 28, 2016) 1

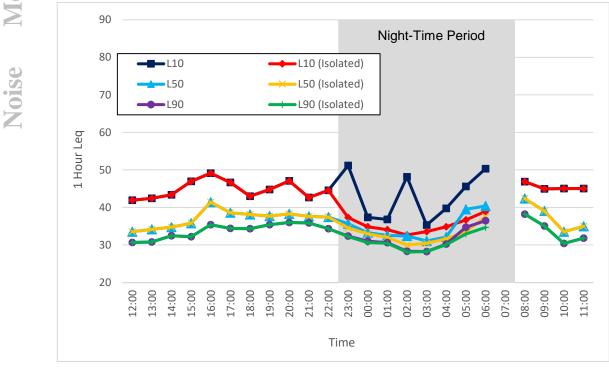


Figure 100. Noise Monitor #12, 1-Hour L₁₀, L₅₀, L₉₀ L_{eq} Sound Levels (June 28 - 29, 2016)²

¹ Data from 05:25 to 07:00 was entirely removed due to traffic along the adjacent road.

² Data from 05:28 to 07:00 was entirely removed due to traffic along the adjacent road.



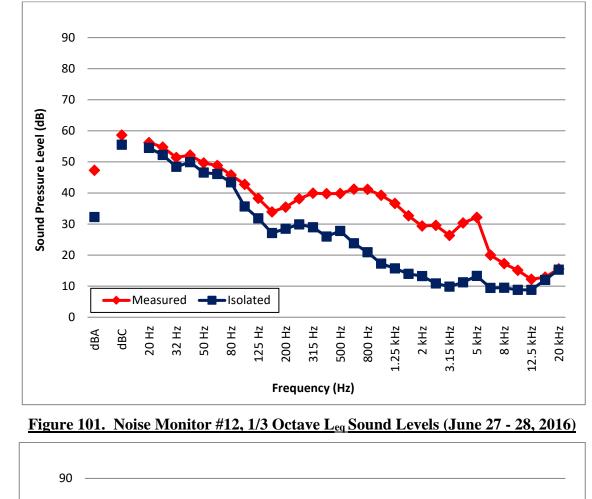


Figure 102. Noise Monitor #12, 1/3 Octave Leg Sound Levels (June 27 - 28, 2016)

315 Hz

Frequency (Hz)

500 Hz

800 Hz

1.25 kHz

2 kHz

3.15 kHz





80

70

60

50

40

30

20

10

0

dBA

dBC

Measured

32 Hz

50 Hz

20 Hz

Isolated

125 Hz

200 Hz

80 Hz

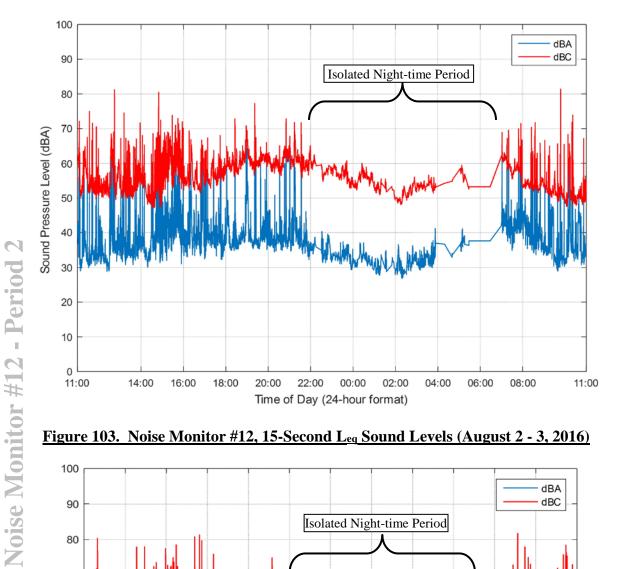
Sound Pressure Level (dB)

20 kHz

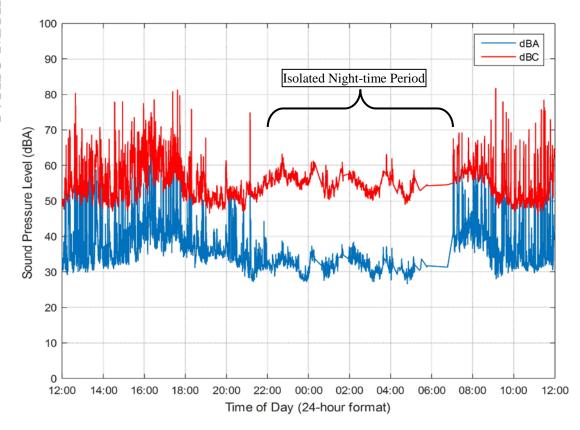
12.5 kHz

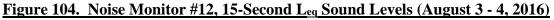
8 kHz

5 kHz











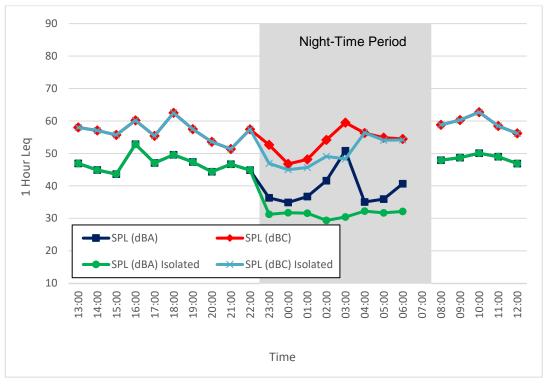


Figure 105. Noise Monitor #12, 1-Hour Leg Sound Levels (August 2 - 3, 2016)¹

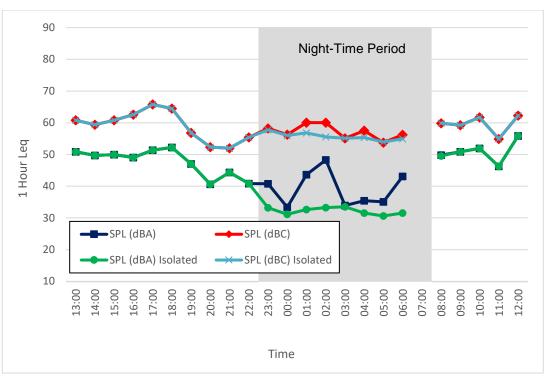


Figure 106. Noise Monitor #12, 1-Hour Leg Sound Levels (August 3 - 4, 2016)²

² Data from 05:10 to 07:00 was entirely removed due to traffic along the adjacent road.



¹ Data from 05:03 to 07:00 was entirely removed due to traffic along the adjacent road.

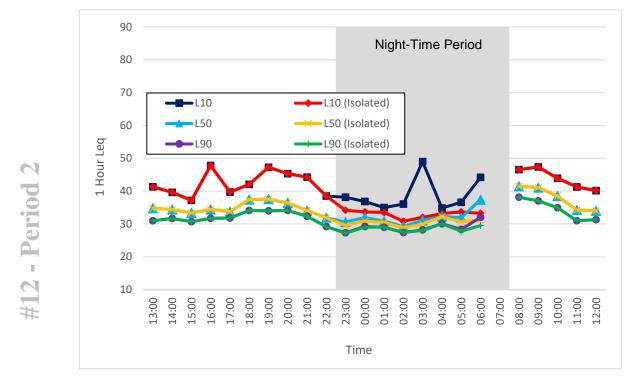


Figure 107. Noise Monitor #12, 1-Hour L₁₀, L₅₀, L₉₀ L_{eq} Sound Levels (August 2 - 3, 2016)¹

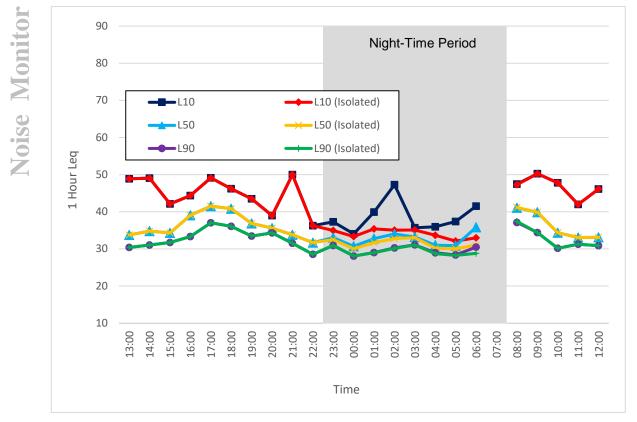


Figure 108. Noise Monitor #12, 1-Hour L₁₀, L₅₀, L₉₀ L_{eq} Sound Levels (August 3 - 4, 2016)²

² Data from 05:10 to 07:00 was entirely removed due to traffic along the adjacent road.



¹ Data from 05:03 to 07:00 was entirely removed due to traffic along the adjacent road.

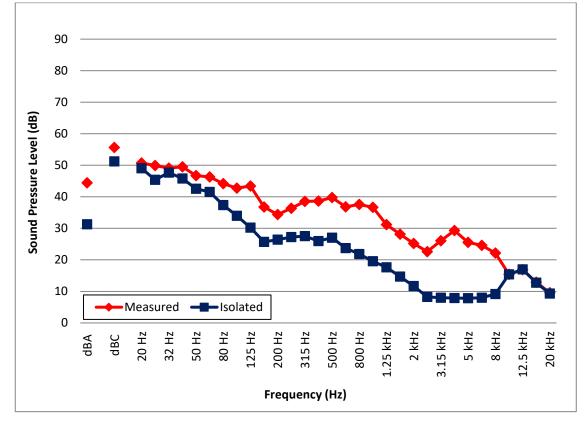


Figure 109. Noise Monitor #12, 1/3 Octave Leq_Sound Levels (August 2 - 3, 2016)

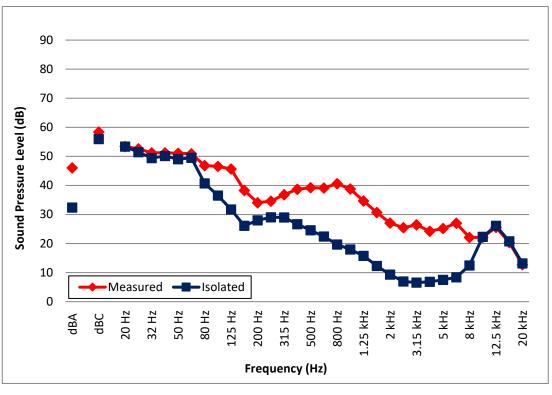
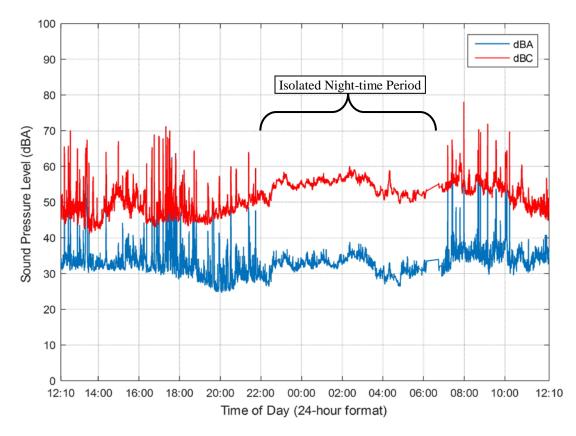
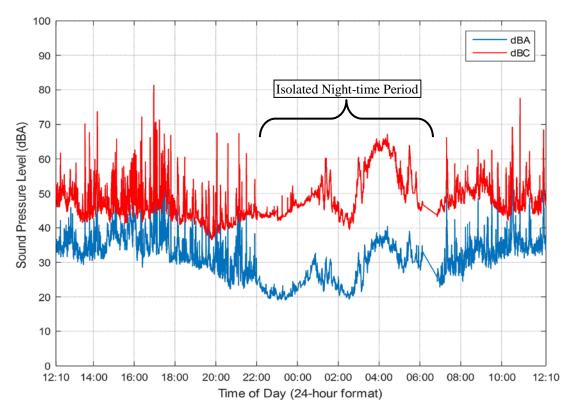


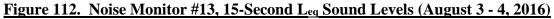
Figure 110. Noise Monitor #12, 1/3 Octave Leg Sound Levels (August 3 - 4, 2016)













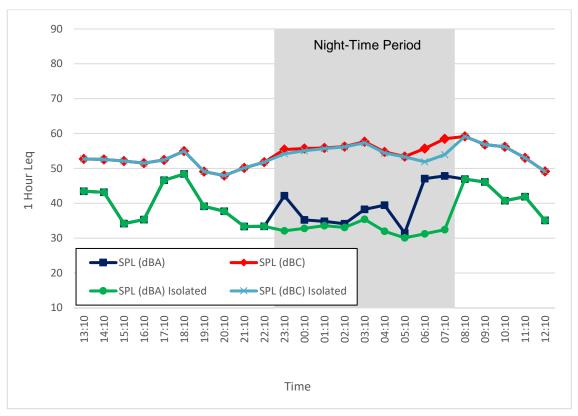
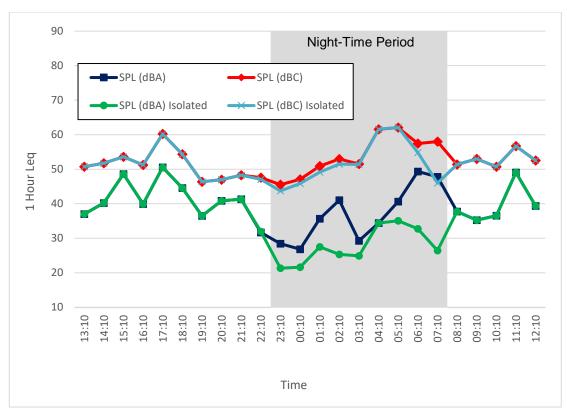


Figure 113. Noise Monitor #13, 1-Hour Leq Sound Levels (August 2 - 3, 2016)







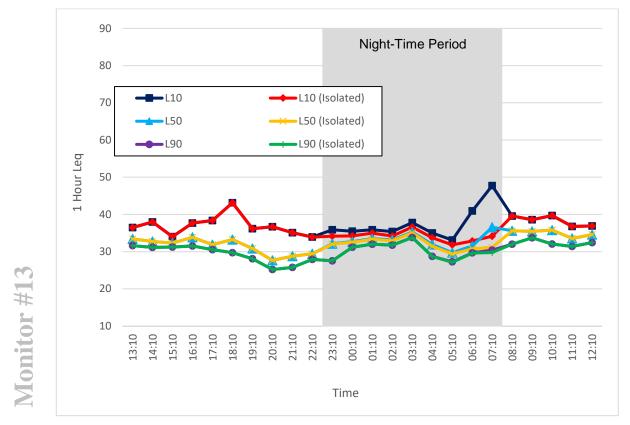


Figure 115. Noise Monitor #13, 1-Hour L₁₀, L₅₀, L₉₀ L_{eq} Sound Levels (August 2 - 3, 2016)

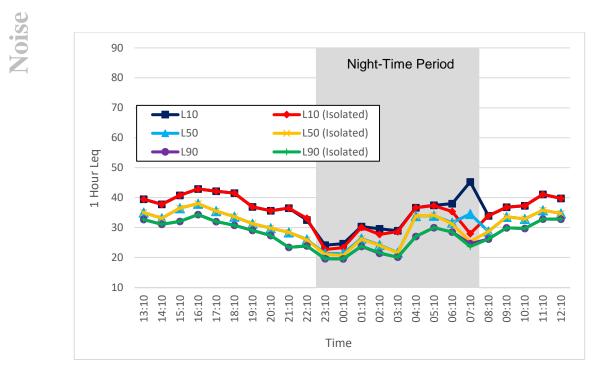


Figure 116. Noise Monitor #13, 1-Hour L₁₀, L₅₀, L₉₀ L_{eq} Sound Levels (August 3 - 4, 2016)



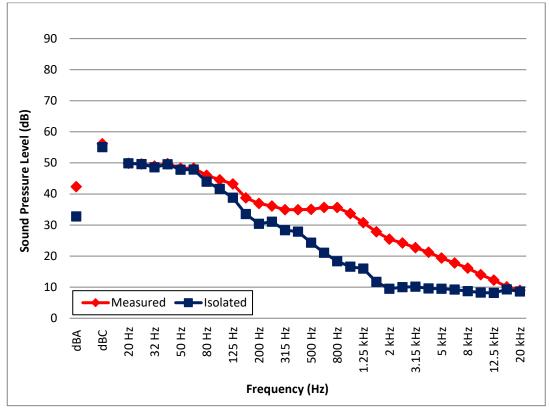


Figure 117. Noise Monitor #13, 1/3 Octave Leq_Sound Levels (August 2 - 3, 2016)

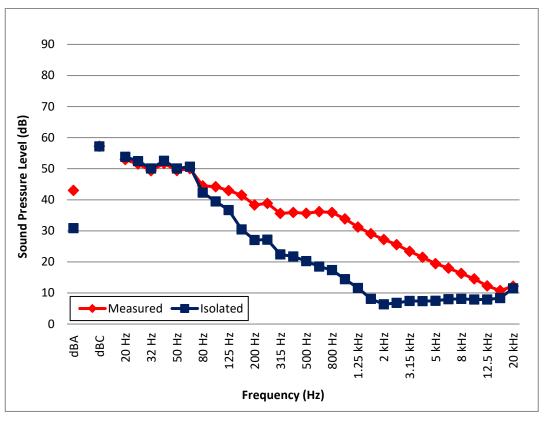


Figure 118. Noise Monitor #13, 1/3 Octave Leg Sound Levels (August 3 - 4, 2016)



Appendix I MEASUREMENT EQUIPMENT USED

Noise Monitors

The environmental noise monitoring equipment used consisted of Brüel and Kjær Type 2250/2270 Precision Integrating Sound Level Meters enclosed in environmental cases with tripods, weather protective microphone hoods, and (in some cases) external batteries. The systems acquired data in 15-second L_{eq} samples using 1/3 octave band frequency analysis and overall A-weighted and C-weighted sound levels. The sound level meters conform to Type 1, ANSI S1.4, ANSI S1.43, IEC 61672-1, IEC 60651, IEC 60804 and DIN 45657. The 1/3 octave filters conform to S1.11 – Type 0-C, and IEC 61260 – Class 0. The calibrator conforms to IEC 942 and ANSI S1.40. The sound level meters, pre-amplifiers and microphones were certified on July 07, 2015 / December 15, 2014 / October 8, 2014 / October 8, 2014 / October 9, 2014 / April 29, 2016 / April 30, 2015 and the calibrator (type B&K 4231) was certified on August 17, 2015 by a NIST NVLAP Accredited Calibration Laboratory for all requirements of ISO 17025: 1999 and relevant requirements of ISO 9002:1994, ISO 9001:2000 and ANSI/NCSL Z540: 1994 Part 1. All measurement methods and instrumentation conform to the requirements of the AER Directive 038. Simultaneous digital audio was recorded directly on the sound level meter using a 8 kHz sample rate for more detailed post-processing analysis. Refer to the next section in the Appendix for a detailed description of the various acoustical descriptive terms used.

Weather Monitors

Each weather monitoring system used for the study consisted of an Orion Weather Station 9510-A-1 with a WXT520 Self-Aspirating Radiation Shield Sensor Unit, a Weather MicroServer 9590 Data-logger, and a Lightning Arrestor. The Data-logger and batteries were located in a grounded, weather protective case. The Sensor Unit was mounted on a sturdy survey tripod (with supporting guy-wires) at approximately 5.0 m above ground. The system was set up to record data in 1-minute samples obtaining the wind-speed, peak wind-speed, and wind-direction in a rolling 2-minute average as well as the 1-minute temperature, relative humidity, barometric pressure, rain rate and total rain accumulation.



Description	Date	Time	Pre / Post	Calibration Level	Calibrator Model	Serial Number
Monitor #1	June 27, 2016	11:35	Pre	93.9 dBA	B&K 4231	2478139
Monitor #1	June 29, 2016	11:50	Post	93.8 dBA	B&K 4231	2478139
Monitor #2	June 27, 2016	11:10	Pre	93.9 dBA	B&K 4231	2478139
Monitor #2	June 29, 2016	11:30	Post	93.9 dBA	B&K 4231	2478139
Monitor #3	August 2, 2016	08:45	Pre	93.9 dBA	B&K 4231	2478139
Monitor #3	August 4, 2016	14:40	Post	93.9 dBA	B&K 4231	2478139
Monitor #4	June 27, 2016	10:05	Pre	93.9 dBA	B&K 4231	2478139
Monitor #4	June 29, 2016	10:30	Post	93.8 dBA	B&K 4231	2478139
Monitor #5	June 27, 2016	09:40	Pre	93.9 dBA	B&K 4231	2478139
Monitor #5	June 29, 2016	10:10	Post	93.8 dBA	B&K 4231	2478139
Monitor #6	June 27, 2016	09:15	Pre	93.9 dBA	B&K 4231	2478139
Monitor #6	June 29, 2016	09:45	Post	93.9 dBA	B&K 4231	2478139
	1		1			
Monitor #8	August 2, 2016	12:35	Pre	93.9 dBA	B&K 4231	2478139
Monitor #8	August 4, 2016	13:20	Post	93.9 dBA	B&K 4231	2478139
Monitor #9	August 2, 2016	13:40	Pre	93.9 dBA	B&K 4231	2478139
Monitor #9	August 4, 2016	14:05	Post	93.8 dBA	B&K 4231	2478139
	1					
Monitor #10	June 27, 2016	10:55	Pre	93.9 dBA	B&K 4231	2478139
Monitor #10	June 29, 2016	11:10	Post	93.8 dBA	B&K 4231	2478139
Monitor #11	August 2, 2016	13:05	Pre	93.9 dBA	B&K 4231	2478139
Monitor #11	August 4, 2016	13:30	Post	93.8 dBA	B&K 4231	2478139
		•				
Monitor #12a	June 27, 2016	08:35	Pre	93.9 dBA	B&K 4231	2478139
Monitor #12a	June 29, 2016	12:15	Post	93.8 dBA	B&K 4231	2478139
Monitor #12b	August 2, 2016	11:28	Pre	93.9 dBA	B&K 4231	2478139
Monitor #12b	August 4, 2016	15:20	Post	93.9 dBA 93.9 dBA	B&K 4231	2478139
			·			I
Monitor #13	August 2, 2016	12:05	Pre	93.9 dBA	B&K 4231	2478139
Monitor #13	August 4, 2016	12:45	Post	93.8 dBA	B&K 4231	2478139

Record of Calibration Results



B&K 4231 Calibrator Calibration Certificate

CAL ISO 17025: 20	LIBRAT 005, A	ION LABORATORY ANSI/NCSL Z540:1 LAP (an ILAC MRA	1994 Part 1	[Lab Code: 20	0625-0
Cali	ibra	ation C	ertifi	cate N	0.3	4409	
Instrument: Model: Manufacturer: Serial number: Class (IEC 60942): Barometer type: Barometer s/n:	4231	stical Calibrator and Kjær 139		Date Calibrate Status: In tolerance: Out of tolerand See comments Contains non-o	ce:	Received X	Sent X
Customer: Tel/Fax:		stical Consultants 14-6373 / -6376	Inc.	Ec	31 - 210 Imonton Inada T6	, Alberta	
	ustical	Calibrators, Scante	ek Inc., Rev.	. 1/16/2015		WI UA6	
	ustical ed for	Calibrators, Scante	ek Inc., Rev.	. 1/16/2015	Traceal	pility evidence	Cal. Due
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Calibration of Acou Instrumentation use Instrument - Manufacte 483B-Norsonic DS-360-SRS	ustical ed for urer	Calibrators, Scant calibration: Nor-1 Description SME Cal Unit Function Generator	ek Inc., Rev. 504 Norson <u>s/N</u> 31052 33584	. 1/16/2015 ic Test System: Cal. Date Oct 7, 2014 Sep 30, 2013 31 Oct 1, 2014	Traceal Cal. Lab Scantel ACR ACR	pility evidence / Accreditation k, Inc./ NVLAP Env./ A2LA	Oct 7, 2015 Sep 30, 2015
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Calibration of Acor Instrumentation use Instrument - Manufacte 483B-Norsonic DS-360-SRS 34401A-Agilent Technolog HM30-Thommen 8903-HP PC Program 1018 Norsoni 4134-Brüel&Kjær	ed for urer gies	Calibrators, Scante calibration: Nor-1 Description SME Cal Unit Function Generator Digital Voltmeter Meteo Station Audio Analyzer Calibration software Microphone	ek Inc., Rev. 504 Norson 5/N 31052 33584 US3612073 1040170/39 2514A0565 v.6.1T 906763	. 1/16/2015 ic Test System: Cal. Date Oct 7, 2014 Sep 30, 2013 31 Oct 1, 2014 633 Oct 3, 2014 91 Dec 12, 2013 Validated Nov 2014 Oct 15, 2013	Traceal Cal. Lab Scantel ACR ACR ACR ACR Sca Sca NPL	bility evidence / Accreditation k, Inc./ NVLAP Env./ A2LA Env./ A2LA Env./ A2LA Env./ A2LA env./ A2LA ontek, Inc. -UK / UKAS	Oct 7, 2015 Sep 30, 2015 Oct 1, 2015 Oct 3, 2015 Dec 12, 2016
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Calibration of Acoi Instrumentation use Instrument - Manufacte 483B-Norsonic DS-360-SRS 34401A-Agilent Technolog HM30-Thommen 8903-HP PC Program 1018 Norsoni 4134-Brüel&Kjær 1203-Norsonic Instrumentation an maintained by NIST Calibrated by	ustical ed for urer gies ic ic ic id test (USA)	Calibrators, Scante calibration: Nor-1 Description SME Cal Unit Function Generator Digital Voltmeter Meteo Station Audio Analyzer Calibration software Microphone Preamplifier results are traceal and NPL (UK)	ek Inc., Rev. 504 Norson 5/N 31052 33584 US3612073 1040170/39 2514A0565 v.6.1T 906763 14052 ble to SI (In	. 1/16/2015 ic Test System: Cal. Date Oct 7, 2014 Sep 30, 2013 31 Oct 1, 2014 633 Oct 3, 2014 91 Dec 12, 2013 Nov 2014 Oct 15, 2013 Aug 22, 2014 ternational System Authorized sign	Traceat Cal. Lab Scantel ACR ACR ACR Sca Sca Scantel Scantel em of Un atory:	bility evidence / Accreditation k, Inc./ NVLAP Env./ A2LA Env./ A2LA Env./ A2LA Env./ A2LA intek, Inc. -UK / UKAS k, Inc./ NVLAP its) through s	Oct 7, 2015 Sep 30, 2015 Oct 1, 2015 Oct 3, 2015 Dec 12, 2016 - Oct 15, 2015 Aug 22, 2015 Standards

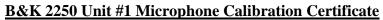


<u>B&K 2250 Unit #1 SLM Calibration Certificate</u>





CALIBF ISO 17025: 2005	ATION LABORATOR 5, ANSI/NCSL Z540 NVLAP (an ILAC MR/	(Y):1994 Part 1			Code: 2006	25-0 ®
Calib	oration (Certif	ficate N	10.3	4215	5
Model: 4189 Manufacturer: Brüel	phone & Kjær		Date Calibrated: Status: In tolerance:	Rec	Cal Due eived X	Sent X
Serial number: 24711 Composed of: Customer: ACLA	.33 coustical Consultan	ts Inc.	Out of tolerance See comments: Contains non-ae Address: 503			<u>X</u> No
	14-6373 / -6376	is ne.	Edr	nonton, A NADA T6N	lberta	
Instrument - Manufacturer 483B-Norsonic	Description SME Cal Unit	S/N 25747	Cal. Date	Cal. Lab / Scantek,	ity evidence Accreditation Inc./ NVLAP	Cal. Due
DS-360-SRS 34401A-Agilent Technologies DPI 141-Druck	Function Generator Digital Voltmeter Pressure Indicator	61646 MY4102204 790/00-04	Nov 11, 2014 3 Nov 11, 2014 Nov 18, 2014	ACR E	nv./ A2LA nv./ A2LA nv./ A2LA	Nov11, 2016 Nov 11, 2015 Nov 18, 2016
HMP233-Vaisala Oyj	Humidity & Temp. Transmitter	V3820001	Mar 17, 2014 Validated	ACR E	nv./ A2LA	Sep 17, 2015
PC Program 1017 Norsonic	Calibration software Calibrator	v.6.1T 28326	Nov 2014 Nov 10, 2014		tek, Inc. Inc./ NVLAP	- Nov 10, 2015
1203-Norsonic 4180-Brüel&Kjær	Preamplifier Microphone	14059 2246115	Jan 5, 2015 Oct 15, 2013	Scantek,	Inc./ NVLAP IK / UKAS	Jan 5, 2016 Oct 15, 2015
Instrumentation and te and NIST (USA)						
Calibrated by:	Valentia	uzduga	Authorized sign		Mariana	Buzduga
Signature Date	7/07/2	2015	Signature		- lub	2015
Calibration Certificates or Tes This Calibration Certificate or or any agency of the federal g Document stored as: 2:\Calil	Test Reports shall not be overnment.	e used to claim	product certification,		l of the laborate	pry.





B&K 2270 Unit #2 SLM Calibration Certificate





| | Date Calibrated: 12/13/2014 Cal Due:
Status: Received Sent | Date Calibrated: 12/13/2014 Cal Due: | Instrument: Microphone Date Calibrated: 12/13/2014 Cal Due:

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Nodel: 4189 Status: <u>Received</u> Sent

 | strument: Microphone Date Calibrated: 12/13/2014 Cal Due:

 | nstrument: Microphone Date Calibrated: 12/13/2014 Cal Due:
Aodel: 4189 Status: <u>Received Sent</u> | strument: Microphone Date Calibrated: 12/13/2014 Cal Due: | | nstrument: Microphone Date Calibrated: 12/13/2014 Cal Due: |

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del: 4189 Status: <u>Received</u> Sent | ument: Microphone Date Calibrated: 12/13/2014 Cal Due:
el: 4189 Status: <u>Received Sent</u>
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del: 4189 Status: <u>Received Sent</u>
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bdel: 4189 Status: Received Sent
anufacturer: Brüel & Kjær In tolerance: X X
 | Instrument:MicrophoneDate Calibrated:12/13/2014Cal Due:Model:4189Status:ReceivedSentManufacturer:Brüel & KjærIn tolerance:XXSerial number:2850742Out of tolerance: | nstrument: Microphone Date Calibrated: 12/13/2014 Cal Due:
Nodel: 4189 Status: Received Sent
Manufacturer: Brüel & Kjær In tolerance: X X
erial number: 2850742 Out of tolerance: | Instrument: Microphone Date Calibrated: 12/13/2014 Cal Due:
Model: 4189 Status: Received Sent
Monufacturer: Brüel & Kjær In tolerance: X X
Serial number: 2850742 Out of tolerance:
Composed of: See comments:
Contains non-accredited tests: Yes X No
Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due
3838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ AVIAP Jul 2, 2015
S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./A2LA Nov 11, 2016
4401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./A2LA Nov 13, 2016
MP233-Vaisala Oyj Humidity & Temp.
Validated Validated
 | Instrument: Microphone Date Calibrated: 12/13/2014 Cal Due: Monufacturer: Brüel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance: X X Composed of: See comments: See contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Status: Canada tests: Yes X Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrument-tomose for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NUAP Jul 2, 2015 Scio0-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 Scio0-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 M233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ | Instrument: Microphone Date Calibrated: 12/13/2014 Cal Due: Monufacturer: Brüel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance: X X Composed of: See comments:
 | Instrument: Microphone Date Calibrated: 12/13/2014 Cal Due:
Model: 4189 Status: Received Sent
Monufacturer: Brüel & Kjær In tolerance: X X
Serial number: 2850742 Out of tolerance: See comments:
Composed of: Contains non-accredited tests: Yes X No
Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
Tested In accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Traceability evidence
638-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Nov 13, 2015
P140-Druck Pressure Indicator 790/00-04 Nov 13, 2014 ACR Env. / A2LA Nov 11, 2015
P141-Druck Pressure Indicator 790/00-04 Nov 13, 2014 ACR Env. / A2LA Nov 11, 2015
P141-Druck Pressure Indicator 790/00-04 Nov 13, 2014 ACR Env. / A2LA Nov 13, 2016
MP233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 13, 2016
MP233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 13, 2015
C Program 1017 Norsonic Calibration software v.6.1T Validated
Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 | nstrument: Microphone Date Calibrated: 12/13/2014 Cal Due:
Model: 4189 Status: Received Sent
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Secial number: 2850742 Out of tolerance: See comments:
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Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrument-Manufacturer Description S/N Cal. Date Traceability evidence
1388-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Nov 13, 2015
1360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015
1401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015
1410-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 11, 2015
1410-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 11, 2015
Program 1017 Norsonic Calibration software v.6.1T Validated
28-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015
28-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 | Instrument: Microphone Date Calibrated: 12/13/2014 Cal Due:
Model: 4189 Status: Received Sent
Manufacturer: Brüel & Kjær In tolerance: X X
Serial number: 2850742 Out of
tolerance: See comments: Composed of: See comments: See comments: Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Fel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Fested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence SaBe.Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 P141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 11, 2015 P141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 11, 2015 P141-Druck Calibration software v.6.1T Validated MP233-Valsala Oyj Humidity & Temp. Transmitter V3820001 Mar 17, 2014 Scantek, Inc. / NVLAP Nov 10, 2015 CProgram 1017 Norsonic Calibration 28326 Nov 10, 2014 Scantek, Inc. / NVLAP Nov 10, 2015 Z03-Norsonic Calibration 28326 Nov 10, 2014 Scantek, Inc. / NVLAP Nov 10, 2015 Z03-Norsonic Calibration 28326 Nov 10, 2014 Scantek, Inc. / NVLAP Nov 10, 2015 Z03-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc. / NVLAP Nov 10, 2015 Z03-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc. / NVLAP Nov 10, 2015 Z03-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc. / NVLAP Nov 10, 2015 Z03-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc. / NVLAP Nov 10, 2015 Z03-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc. / NVLAP Jan 2, 2015 Z03-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc. / NVLAP Jan 2, 2015	Instrument: Microphone Date Calibrated: 12/13/2014 Cal Due: Model: 4189 Status: Received Sent Monufacturer: Brüel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance: See comments: Composed of: See comments: See comments: Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Fested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence S360-585 Function Generator 61646 Nov 11, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 S-360-585 Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 MP233-Vaisala Oyj Humidity & Temp. MP233-Vaisala Oyj Humidity & Temp. Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 11, 2015 MP233-Vaisala Oyj Humidity & Temp. Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 11, 2015 MP233-Vaisala Oyj Humidity & Temp. Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 11, 2015 MP233-Vaisala Oyj Humidity & Temp. Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 11, 2015 MP233-Vaisala Oyj Humidity & Temp. Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 11, 2015 MP233-Vaisala Oyj Humidity & Temp. Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 11, 2015 MP233-Vaisala Oyj Humidity & Temp. Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 11, 2015 Nov 2014 Scantek, Inc. / NVLAP Nov 10, 2015 Santek, Inc. / NVLAP Nov 10, 2015 CProgram 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. / NVLAP Nov 10, 2015 203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc. / NVLAP Nov 10, 2015	Instrument: Microphone Date Calibrated: 12/13/2014 Cal Due: Model: 4189 Status: Received Sent Manufacturer: Brüel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance:
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 | strument: Microphone Date Calibrated: 12/13/2014. Cal Due: |
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Fested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
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MP233-Vaisala Oyj Humidity & Temp.
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Instrumentation used for calibration: N-1504 Norsonic Test System:
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
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Function Generator
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Transmitter V3820001 MP233-Vaisala Oyj Calibration software v.6.1T Validated Scantek, Inc.
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010Instrumentation used for calibration: N-1504 Norsonic Test System:Instrument - ManufacturerDescriptionS/NCal. DateTraceability evidence
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| Contains non-accredited tests: <u>Yes X</u> | Contains non-accredited tests:Yes X No | Contains non-secondited tests, Vec. V No. |

 | Serial number: 2850742 Out of tolerance: Composed of: See comments: | Manufacturer: Brüel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance: Composed of: See comments: | Composed of: See comments:

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 | | | Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 Edmonton, Alberta CANADA T6M 0A8 Canada T6M 0A8 Fested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Traceability evidence Instrumentation used for calibration: N-1504 Norsonic Test System: Traceability evidence Cal. Due Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2016 4401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015 PI 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Sep 17, 2015 C Program 1017 Norsonic Calibration software v.6.1T Validated Scantek, Inc. -
 | Tel/Fax:780-414-6373 / -6376Edmonton, Alberta
CANADA T6M 0A8Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010Instrumentation used for calibration: N-1504 Norsonic Test System:Instrument - ManufacturerDescriptionS/NCal. DateTraceability evidence
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010Instrumentation used for calibration: N-1504 Norsonic Test System:Instrument - ManufacturerDescriptionS/NCal. DateTraceability evidence
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010Instrumentation used for calibration: N-1504 Norsonic Test System:Instrument - ManufacturerDescriptionS/NCal. DateTraceability evidence
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 | | | Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 S-360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2016 4401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015 P1 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Oyj Humidity & Temp.
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 338-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 5-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2016 M01A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015 P1 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Oyj Humidity & Temp.
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| | | Address: 5031 - 210 Street | Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street

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 | Serial number: 2850742 Out of tolerance: Composed of: See comments: Contains non-accredited tests:Yes X_ No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Customer: 780-414-6373 / -6376 CANADA T6M 0A8 Fested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Traceability evidence | Manufacturer: Brüel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests:Yes X_ No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: | Composed of: See comments: Customer: ACI Acoustical Consultants Inc. Customer: 780-414-6373 / -6376 Canada Consultants Canada T6M 0A8 Cested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Traceability evidence

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 | Serial number: 2850742 Out of tolerance: | Manufacturer: Brüel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance: | See comments: Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Customer: 780-414-6373 / -6376 CANADA T6M 0A8 rested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 nstrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 138-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015

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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
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Instrumentation used for calibration: N-1504 Norsonic Test System:
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838-Norsonic SME Cal Unit 25747 Jul 2, 2014
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
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-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2016
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Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010Instrumentation used for calibration: N-1504 Norsonic Test System:Instrument - ManufacturerDescriptionS/NCal. DateCal. Lab / AccreditationCal. Date05-360-SRSFunction Generator51646Nov 11, 2014ACR Env./ A2LANov 11, 201405-360-SRSDigital VoltmeterMY41022043Nov 11, 2014ACR Env./ A2LANov 13, 2005-360-SRSDigital Voltmeter790/00-04Nov 18, 2014ACR Env./ A2LANov 13, 200F1 141-DruckPressure Indicator790/00-04Nov 18, 2014ACR Env./ A2LANov 18, 20HMP233-Vaisala OyjHumidity & Temp.
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Transmitter V3820001 Mar 17, 2014 ACR

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Composed of:
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Address: 5031 - 210 Street
Edmonton, Alberta
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CANADA T6M 0A8
Rested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Anstrumentation used for calibration: N-1504 Norsonic Test System:
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Scantek, Inc./ NVLAP
Jul 2, 2015
-360-SRS
Function Generator
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Nov 11, 2014
ACR Env./ A2LA
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Pressure Indicator
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ACR Env./ A2LA
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Preamplifier
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 | Customer:ACI Acoustical Consultants Inc.Contains non-accredited tests:Yes X NoCustomer:ACI Acoustical Consultants Inc.Address:5031 - 210 StreetTel/Fax:780-414-6373 / -6376CANADA T6M 0A8Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010Instrumentation used for calibration: N-1504 Norsonic Test System:Instrument - ManufacturerDescriptionS/NCal. DateTraceability evidence
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TransmitterV3820001Mar 17, 2014ACR Env./ A2LASep 17, 2015C Program 1017 NorsonicCalibration softwarev.6.1TValidated
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Composed of: See comments: Contains non-accredited tests:Yes X_No
Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376
Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Traceability evidence
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83B-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015
S-360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ AZLA Nov11, 2016
4401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ AZLA Nov11, 2015
P1 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ AZLA Nov 18, 2016
MP233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 ACR Env./ AZLA Nov 18, 2016
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Scantek, Inc./ NVLAP Nov 10, 2015
203-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10, 2015
203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Jan 2, 2015 | Serial number: 2850742
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Contains non-accredited tests:Yes X No
Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376
CANADA T6M 0A8
Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Traceability evidence
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S-360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2016
4401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015
PI 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016
MP233-Vaisala Oyj Humidity & Temp.
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203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Nov 10, 2015 | Serial number: 2850742
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Customer: ACI Acoustical Consultants Inc.
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Address: 5031 - 210 Street
Edmonton, Alberta
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Fested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
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Humidity & Temp.
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Can | Serial number: 2850742 Out of tolerance: Composed of: See comments: Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta Edmonton, Alberta Fel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Fested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 83B-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015 Pi 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA < | Initial number: 2850742 Out of tolerance: Imposed of: See comments: Contains non-accredited tests: Yes X No Istomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta Edmonton, Alberta Id/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 strumentation used for calibration: N-1504 Norsonic Test System: strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due Bib-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 P233-Vaisala Oyj Humidity & Temp.
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010Instrumentation used for calibration: N-1504 Norsonic Test System:Instrument - ManufacturerDescriptionS/NCal. DateTraceability evidence
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TransmitterV3820001Mar 17, 2014ACR Env. / A2LANov 18, 2016PC Program 1017 NorsonicCalibration softwarev.6.1TValidated
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 | Serial number: 2850742 Out of tolerance: | Manufacturer: Brüel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance: | See comments: Contains non-accredited tests: Yes_X_No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edimonton, Alberta Edmonton, Alberta Edmonton, Alberta cel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 rested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 138-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 >360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2016 A01A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 P1 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 18, 2016 MP233-Vaisala Oyj Humidity & Temp.
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Transmitter V3820001 Mar 17, 2014 ACR

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Edmonton, Alberta
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Rested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Anstrumentation used for calibration: N-1504 Norsonic Test System:
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Scantek, Inc./ NVLAP
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-360-SRS
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010Instrumentation used for calibration: N-1504 Norsonic Test System:Instrument - ManufacturerDescriptionS/NCal. DateTraceability evidence
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Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
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Tel/Fax: 780-414-6373 / -6376
Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
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4401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ AZLA Nov11, 2015
P1 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ AZLA Nov 18, 2016
MP233-Vaisala Oyj Humidity & Temp.
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Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376
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Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
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Address: 5031 - 210 Street
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
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Can | Serial number: 2850742 Out of tolerance: Composed of: See comments: Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta Edmonton, Alberta Fel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Fested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 83B-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015 Pi 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA < | Initial number: 2850742 Out of tolerance: Imposed of: See comments: Contains non-accredited tests: Yes X No Istomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta Edmonton, Alberta Id/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 strumentation used for calibration: N-1504 Norsonic Test System: strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due Bib-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 P233-Vaisala Oyj Humidity & Temp.
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 | See comments: Contains non-accredited tests: Yes_X_No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Fe//Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Fested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 nstrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 338-Norsonic SME Cal
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 | Berial number: 2850742 Out of tolerance: | Serial number: 2850742
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Contains non-accredited tests:Yes_X No
Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376
CANADA T6M 0A8
Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
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MP233-Vaisala Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 18, 2014
MP233-Vaisala Oyj Humidity & Temp.
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Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 18, 20 sgaram 1017 Norsonic Calibration software v.6.1T Validated
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allibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010canada testatrumentation used for calibration: N-1504 Norsonic Test System:Traceability evidence
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alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010sted in accordance with the following procedures and standards:
alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010strumentation used for calibration: N-1504 Norsonic Test System:strument - ManufacturerDescriptionS/NCal. DateTraceability evidence
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accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010nstrumentation used for calibration: N-1504 Norsonic Test System:Traceability evidence
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Edmonton, Alberta
CANADA T6M 0A8 ures and standards: CANADA T6M 0A8 ures and standards: Traceability evidence Cal. Date system: Traceability evidence Cal. Date S/N Cal. Date Traceability evidence Cal. Date 5747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 202 1022043 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2 1022043 Nov 18, 2014 ACR Env. / A2LA Nov 18, 2 200001 Mar 17, 2014 ACR Env. / A2LA Nov 18, 2 46.1T Nov 2014 Scantek, Inc. - 83266 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10, 2 44059 Jan 2, 2014 Scantek, Inc./ NVLAP Jan 2, 24 44115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2013 | Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta Canada and a consultants Inc. Address: 5031 - 210 Street Tel/Fax: 780-414-6373 / -6376 Canada and a consultants Inc. Address: 5031 - 210 Street Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Traceability evidence Cal. Due Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 1838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 053-60-SR5 Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 021 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 18, 2016 4MP233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Sep 17, 2015 PC Program 1017 Norsonic Calibration software v.6.1T Nov 2014 <t< td=""><td>Serial number: 2850742 Out of tolerance:
See comments:
Contains non-accredited tests: Yes X_ No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Rested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence
Cal. Lab / Accreditation Cal. Due 338-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 35-360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2016 MP233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016 CProgram 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. - 253-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc. - 253-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc.</td><td>Manufacturer: Brüel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance: </td><td>See comments: See comments: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Cel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Pested in accordance with the following procedures and standards: Callbration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due C38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 Pid01A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015 MP233-Vaisala Oyj Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Oyj Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2015 Si30-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 Program 1017 Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10, 2015 Si30-Norsonic</td><td>Arrial number: 2850742 Out of tolerance: </td><td>See comments: See comments: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Ed/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Rested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: nstrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 -360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 -0114-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov18, 2016 MP233-Vaisala Oyj Humidity & Temp.
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Composed of:
Contains non-accredited tests:Yes _X No
Address: 5031 - 210 Street
Edmonton, Alberta
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Address: 5031 - 210 Street
Edmonton, Alberta
CANADA T6M 0A8
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
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Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due 838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 \$5360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015 \$401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov 18, 2016 MP233-Vaisala Ovj Humidity & Temp.
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Composed of: See comments:
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Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
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838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015
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4401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015
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203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Nov 10, 2015
180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / WKAS Oct 15, 2015
Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>Serial number: 2850742 Out of tolerance:
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Edmonton, Alberta Teel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Fested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence
Cal. Lab / Accreditation Cal. Due 388-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 5-360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 MP233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016 CProgram 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. - 253-Norsonic Calibrator 28326 Nov 10, 2014 S</td><td>Serial number: 2850742 Out of tolerance:
Composed of: See comments:
Contains non-accredited tests:Yes X No
Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015
S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / AZLA Nov11, 2015
S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / AZLA Nov11, 2015
P1 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / AZLA Nov1 2, 2015
C Program 1017 Norsonic Calibration software v.6.1T Validated
MP233-Vaisala
Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 Scantek, Inc. / NVLAP Nov 18, 2016
C Program 1017 Norsonic Calibration software v.6.1T Validated
253-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc. / NVLAP Nov 10, 2015
203-Norsonic Preamplifier 14059 Jan 2, 2013 NPL-UK / UKAS Oct 15, 2015
Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>Arrial number: 2850742 Out of tolerance: See comments: Setsomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Address: 5031 - 210 Street Edmonton, Alberta CANADA T6M 0A8 P/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 strumentation used for calibration: N-1504 Norsonic Test System: Strumentation Cal. Date Traceability evidence Cal. Due B-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 P233-Vaisala Ovj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016 Program 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 33-Norsonic Calibration software v.6.1T N</td><td>Acia number: 2850742 Out of tolerance: See comments: mposed of: See comments: Contains non-accredited tests: Yes X No stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta I/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Steed in accordance with the following procedures and standards: salibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 CANADA T6M 0A8 Steed in accordance with the following procedures and standards: salibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Strumentation used for calibration: N-1504 Norsonic Test System: strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due B-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 501A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2014 2233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2014 3-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 233-Vaisal</td><td>Ial number: 2850742 Out of tolerance: </td><td>rial number: 2850742 Out of tolerance: </td><td>al number: 2850742 Out of tolerance: apposed of: See comments: comer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta Fax: 780-414-6373 / -6376 CANADA T6M 0A8 red in accordance with the following procedures and standards: Ilibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 rument-Manufacturer Description S/N Cal. Date Traceability evidence Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 0-SFS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 201 A-Aglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 201 A-Aglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 201 A-Aglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 201 33-Vaisala Oyj Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 201 Norsonic<!--</td--><td>Imposed of: See comments:
Contains non-accredited tests:Yes X No tomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta /Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ted in accordance with the following procedures and standards: Itel in accordance with the following procedures and standards: Illibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Traceability evidence Cal. Due rument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 A-Agilent Technologies Digital Voltmeter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 11, 2015 R33-Vaisala Ovj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 10, 2015 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 R33-Vaisala Ovj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014</td><td>Imposed of: See comments:
Contains non-accredited tests:Yes_X_No stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta /Fax: 780-414-6373 / -6376 CANADA T6M 0A8 sted in accordance with the following procedures and standards:
alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 CANADA T6M 0A8 trumentation used for calibration: N-1504 Norsonic Test System: Traceability evidence
Cal. Lab / Accreditation Cal. Due trument - Manufacturer Description S/N Cal. Date Traceability evidence
Cal. Lab / Accreditation Cal. Due trument - Manufacturer Description S/N Cal. Date Traceability evidence
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Cal. Lab / Accreditation Cal. Due thrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due thrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due thrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due thrument - Manufacturer</td><td>Intervention Brüel & Kjær In tolerance: X X erial number: 2850742 Out of tolerance: </td><td>Ial number: 2850742 Out of tolerance: </td><td>Iai number: 2850742 Out of tolerance: </td><td>Description S/N Cal. Date Traceability evidence Cal. Due Stormert Address: Scortes Cal. Due Address: Traceability evidence Cal. Due Address: South Scortes Cal. Due Address: Scortes Cal. Due Cal. Due Address: South Cal. Due Cal. Due Strument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Storsonic SME Cal Unit Z5747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 Storsonic SME Cal Unit Z5747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 Storsonic SME Cal Unit Z5747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 Storsonic Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015 Stali-Duck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 11, 2015 Program 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. S-Norsonic <td< td=""><td>Brüel & Kjær In tolerance: X X panjosed of: 2850742 Out of tolerance: </td><td>In unfacturer: Brüel & Kjær In tolerance: X X erial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X. No astomer: ACI Acoustical Consultants Inc. ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta el/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Edmonton, Alberta calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Seted in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Setement - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation strument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due 360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015 141-Druck Pressure Indicator
790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 18, 2016 1823-Vaisala Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 19, 2015 360-SR5 Calibration software v.6.1T Nov 18</td><td>erial number: 2850742 Out of tolerance: See comments: composed of: See comments: Contains non-accredited tests: Yes X No ustomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street el/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ested in accordance with the following procedures and standards: CANADA T6M 0A8 calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 standards: calibration used for calibration: N-1504 Norsonic Test System: astrumentation used for calibration: N-1504 Norsonic Test System: nstrument - Manufacturer Description \$/N Cal. Date Cal. Lab / Accreditation Cal. Due 38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 360-SPS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 1141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 1233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016 1233-Norsonic Calibration software v.6.1T Nov 2014</td></td<><td>Composed of: See comments: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Customer: 780-414-6373 / -6376 CANADA T6M 0A8 Prested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 338-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 P1 44:D1A-Agilent Technologies Digital Voltmeter MY41022043 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Sep 17, 2015 CP forgram 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 263-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10, 2015 <</td><td>erial number: 2850742 Out of tolerance: </td><td>Serial number: 2850742
Composed of:
Customer: ACI Acoustical Consultants Inc.
Tel/Fax: 780-414-6373 / -6376
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrument a Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
Cal. Lab / Accreditation Calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
1838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015
Sy-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 201
1911 41-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 11, 201
MH233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 18, 201
MH233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 18, 201
MC Program 1017 Norsonic Calibration software v.6.1T Validated
Nov 2014 Scantek, Inc./ NVLAP Nov 10, 201
203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Nov 10, 201
Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>iai number: 2850742 Out of tolerance: </td><td>See comments: Contains non-accredited tests: Yes_X_No tomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ted in accordance with the following procedures and standards: Edmonton, Alberta libration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 rumentation used for calibration: N-1504 Norsonic Test System: rument - Manufacturer Description \$/N Cal. Date Traceability evidence Cal. Due Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 A-Aglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 20 A-Salient Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 20 33-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 20 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. Nov 18, 20 Norsonic Calibrator 28326 Nov 10, 201 Scantek, Inc./ NVLAP Nov 10, 20 Norsonic Preampl</td><td>bosed of: See comments:
Contains non-accredited tests:Yes X No bomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta back 780-414-6373 / -6376 CANADA T6M 0A8 ax: 780-414-6373 / -6376 CANADA T6M 0A8 add in accordance with the following procedures and standards:
Ibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Imment-imment Microphones, Scantek, Inc., Rev. 11/30/2010 umentation used for calibration: N-1504 Norsonic Test System: Imment - Manufacturer Description S/N Cal. Date Traceability evidence
Cal. Lab / Accreditation Cal. Due iorsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2011 -SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 201 -Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 18, 201 13-Vaisala Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 201 13-Vaisala Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 10, 20 Iorsonic <t< td=""><td>Contains non-accredited tests:Yes X No Actionmer: Act Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta CANADA T6M 0A8 Affax: 780-414-6373 / -6376 Cannadation Action of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Traceability evidence Cal. Due Autometric Single Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 Economic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 Address: Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov 11, 201 Actional Actional Construction Pressure Indicator 790/00-04 Nov 13, 2014 ACR Env. / A2LA Nov 11, 201 Actional Construction Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Sep 17, 20 Actionsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 20 Actional Construction Preamplifier 14059 Jan 2, 2013 NPL-UK / UKAS Oct 15, 20 Actional Construction Preamplifier 14059 Jan 2, 2013</td><td>Contains non-accredited tests:Yes X No stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street //Fax: 780-414-6373 / -6376 Cannaba Cannaba sted in accordance with the following procedures and standards: Cannaba Cannaba Cannaba alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Traceability evidence Cal. Due strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 3-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 60-SR5 Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 20 121-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 11, 20 2233-Vaisala Ovj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Sep 17, 20 3-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Jon 2, 201 233-Vaisala Ovj Humidity & Temp. V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 10, 20 3-Norsonic</td><td>Customer: ACI Acoustical Consultants Inc. Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta CANADA T6M 0A8 Tested in accordance with the following procedures and standards: CANADA T6M 0A8 Calibration of Measurement Microphones,
Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Dut 05-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov 11, 20 0F1141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 18, 20 HMP233-Vaisala Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 18, 20 PC Program 1017 Norsonic Calibration software v.6.1T Validated
Nov 2014 Scantek, Inc. / NVLAP Nov 10, 20 1203-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc. / NVLAP Nov 10, 20 1203-Norsonic Calibrator 28326 Nov 10, 2014<td>Contains non-accredited tests: Yes X No ustomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street el/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ested in accordance with the following procedures and standards: CANADA T6M 0A8 calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 nstrumentation used for calibration: N-1504 Norsonic Test System: nstrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. D. 38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 202 -360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2 401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 2 AP233-Vaisala Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 2 Program 1017 Norsonic Calibration software
V.6.1T V.6.1T Nov 2014 Scantek, Inc./ Nov 10, 2 93-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ Nov 10, 2 93-Norsonic<!--</td--><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>nstrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td></td><td></td></td></td></t<></td></td></td></td></t<> | Serial number: 2850742 Out of tolerance:
See comments:
Contains non-accredited tests: Yes X_ No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Rested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence
Cal. Lab / Accreditation Cal. Due 338-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 35-360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2016 MP233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016 CProgram 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. - 253-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc. - 253-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc. | Manufacturer: Brüel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance: | See comments: See comments: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Cel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Pested in accordance with the following procedures and standards: Callbration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due C38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 Pid01A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015 MP233-Vaisala Oyj Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Oyj Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2015 Si30-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 Program 1017 Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10, 2015 Si30-Norsonic

 | Arrial number: 2850742 Out of tolerance:

 | See comments: See comments: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Ed/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Rested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: nstrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 38-Norsonic SME Cal Unit 25747
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Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016 Sa-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 Sa-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 | Arrial number: 2850742 Out of tolerance: | Manufacturer: Brüel & Kjær In tolerance: X X Gerial number: 2850742 Out of tolerance: | erial number: 2850742
Composed of:
Contains non-accredited tests:Yes _X No
Address: 5031 - 210 Street
Edmonton, Alberta
Contains non-accredited tests:Yes _X No
Address: 5031 - 210 Street
Edmonton, Alberta
CANADA T6M 0A8
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
Cal. Lab / Accreditation Calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015
-360-585 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015
401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015
41141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016
AP233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016
AP233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016
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V3820001 Mar 17, 2014 ACR Env./ A2LA Sep 17, 2015
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Scantek, Inc./ NVLAP | anufacturer: Brüel & Kjær In tolerance: X X prial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X No pastomer: ACI Acoustical Consultants Inc. See comments: Contains non-accredited tests: Yes X No al/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 CANADA T6M 0A8 Sested in accordance with the following procedures and standards: Callibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 ested in accordance with the following procedures and standards: Cal. Date Traceability evidence Cal. Due calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Strumentation used for calibration: N-1504 Norsonic Test System: Secontex, Inc./ NVLAP Jul 2, 2015 strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 18-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 18, 2016

 | Contains non-accredited tests: Yes_X_No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Fel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Fested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 338-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 838-Norsonic SME Cal Unit 25747 Jul 2, 2014 ACR Env./ A2LA Nov11, 2016 P1 44-Druck Pressure Indicator 790/00-04 Nov 11, 2014 ACR Env./ A2LA Nov11,
2015 P1 41-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2015 Program 1017 Norsonic Calibration software v.6.1T Noi 2014 Scantek, Inc./ NVLAP Nov 10, 2015 Preamplifier <td>erial number: 2850742 Out of tolerance: </td> <td>Composed of: See comments:
Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due 838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 \$5360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015 \$401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov 18, 2016 MP233-Vaisala Ovj Humidity & Temp.
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Composed of: See comments:
Contains non-accredited tests:Yes X No
Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015
S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2016
4401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015
PI 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 13, 2016
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Scantek, Inc. / NVLAP Nov 10, 2015
203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Nov 10, 2015
180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / WKAS Oct 15, 2015
Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td> <td>Serial number: 2850742 Out of tolerance:
Composed of: See comments:
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Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
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MP233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016
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C Program 1017 Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc.
C Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Nov 10, 2015
203-Norsonic Preamplifier 14059 Jan 2, 2013 NPL-UK / UKAS Oct 15, 2013
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Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
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Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015
S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / AZLA Nov11, 2015
S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / AZLA Nov11, 2015
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C Program 1017 Norsonic Calibration software v.6.1T Validated
253-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc. / NVLAP Nov 10, 2015
203-Norsonic Preamplifier 14059 Jan 2, 2013 NPL-UK / UKAS Oct 15, 2015
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Edmonton, Alberta /Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ted in accordance with the following procedures and standards: Itel in accordance with the following procedures and standards: Illibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Traceability evidence Cal. Due rument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 A-Agilent Technologies Digital Voltmeter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 11, 2015 R33-Vaisala Ovj Humidity & Temp.
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Scantek, Inc./ NVLAP Nov 10, 2015 <</td><td>erial number: 2850742 Out of tolerance: </td><td>Serial number: 2850742
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Customer: ACI Acoustical Consultants Inc.
Tel/Fax: 780-414-6373 / -6376
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrument a Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
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Sy-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 201
1911 41-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 11, 201
MH233-Vaisala Oyj Humidity & Temp.
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MH233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 18, 201
MC Program 1017 Norsonic Calibration software v.6.1T Validated
Nov 2014 Scantek, Inc./ NVLAP Nov 10, 201
203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Nov 10, 201
Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>iai number: 2850742 Out of tolerance: </td><td>See comments: Contains non-accredited tests: Yes_X_No tomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ted in accordance with the following procedures and standards: Edmonton, Alberta libration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 rumentation used for calibration: N-1504 Norsonic Test System: rument - Manufacturer Description \$/N Cal. Date Traceability evidence Cal. Due Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 A-Aglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 20 A-Salient Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 20 33-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 20 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. Nov 18, 20 Norsonic Calibrator 28326 Nov 10, 201 Scantek, Inc./ NVLAP Nov 10, 20 Norsonic Preampl</td><td>bosed of: See comments:
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Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 2 Program 1017 Norsonic Calibration software
V.6.1T V.6.1T Nov 2014 Scantek, Inc./ Nov 10, 2 93-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ Nov 10, 2 93-Norsonic<!--</td--><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable
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Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards:

 | Serial number: 2850742 Out of tolerance:
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Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
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Instrumentation used for calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015
S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2016
4401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015
PI 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 13, 2016
MP233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 13, 2015
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Scantek, Inc. / NVLAP Jul 2, 2015
Scantek, Inc. / NVLAP Jul 2, 2015
Scantek, Inc. / NVLAP Nov 10, 2015
203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Nov 10, 2015
180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / WKAS Oct 15, 2015
Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) | Serial number: 2850742 Out of tolerance:
Composed of: See comments:
Contains non-accredited tests:Yes _X_ No
Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Lab / Accreditation
838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015
S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2016
4401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015
PI 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016
MP233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016
C Program 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc.
C Program 1017 Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc.
C Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Nov 10, 2015
203-Norsonic Preamplifier 14059 Jan 2, 2013 NPL-UK / UKAS Oct 15, 2013
Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) | Serial number: 2850742 Out of tolerance:
See comments:
Contains non-accredited tests: Yes X_ No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta Teel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Fested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence
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Composed of: See comments:
Contains non-accredited tests:Yes X No
Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
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S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / AZLA Nov11, 2015
S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / AZLA Nov11, 2015
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C Program 1017 Norsonic Calibration software v.6.1T Validated
MP233-Vaisala Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 Scantek, Inc. / NVLAP Nov 18, 2016
C Program 1017 Norsonic Calibration software v.6.1T Validated
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203-Norsonic Preamplifier 14059 Jan 2, 2013 NPL-UK / UKAS Oct 15, 2015
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 | Acia number: 2850742 Out of tolerance: See comments: mposed of: See comments: Contains non-accredited tests: Yes X No stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta I/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Steed in accordance with the following procedures and standards: salibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 CANADA T6M 0A8 Steed in accordance with the following procedures and standards: salibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Strumentation used for calibration: N-1504 Norsonic Test System: strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due B-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 501A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2014 2233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2014 3-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 233-Vaisal
 | Ial number: 2850742 Out of tolerance:

 | rial number: 2850742 Out of tolerance: | al number: 2850742 Out of tolerance: apposed of: See comments: comer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta Fax: 780-414-6373 / -6376 CANADA T6M 0A8 red in accordance with the following procedures and standards: Ilibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 rument-Manufacturer Description S/N Cal. Date Traceability evidence Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 0-SFS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 201 A-Aglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 201 A-Aglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 201 A-Aglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 201 33-Vaisala Oyj Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 201 Norsonic </td <td>Imposed of: See comments:
Contains non-accredited tests:Yes X No tomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta /Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ted in accordance with the following procedures and standards: Itel in accordance with the following procedures and standards: Illibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Traceability evidence Cal. Due rument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 A-Agilent Technologies Digital Voltmeter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 11, 2015 R33-Vaisala Ovj Humidity & Temp.
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Contains non-accredited tests:Yes_X_No stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta /Fax: 780-414-6373 / -6376 CANADA T6M 0A8 sted in accordance with the following procedures and standards:
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Scortes Cal. Due Address: Scortes Cal. Due Cal. Due Address: South Cal. Due Cal. Due Strument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Storsonic SME Cal Unit Z5747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 Storsonic SME Cal Unit Z5747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 Storsonic SME Cal Unit Z5747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 Storsonic Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015 Stali-Duck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 11, 2015 Program 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. S-Norsonic <td< td=""><td>Brüel & Kjær In tolerance: X X panjosed of: 2850742 Out of tolerance: </td><td>In unfacturer: Brüel & Kjær In tolerance: X X erial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X. No astomer: ACI Acoustical Consultants Inc. ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta el/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Edmonton, Alberta calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Seted in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Setement - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation strument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due 360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 18, 2016 1823-Vaisala Oyj Humidity & Temp.
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Composed of:
Customer: ACI Acoustical Consultants Inc.
Tel/Fax: 780-414-6373 / -6376
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrument a Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
Cal. Lab / Accreditation Calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
1838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015
Sy-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 201
1911 41-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 11, 201
MH233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 18, 201
MH233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 18, 201
MC Program 1017 Norsonic Calibration software v.6.1T Validated
Nov 2014 Scantek, Inc./ NVLAP Nov 10, 201
203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Nov 10, 201
Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>iai number: 2850742 Out of tolerance: </td><td>See comments: Contains non-accredited tests: Yes_X_No tomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ted in accordance with the following procedures and standards: Edmonton, Alberta libration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 rumentation used for calibration: N-1504 Norsonic Test System: rument - Manufacturer Description \$/N Cal. Date Traceability evidence Cal. Due Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 A-Aglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 20 A-Salient Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 20 33-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 20 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. Nov 18, 20 Norsonic Calibrator 28326 Nov 10, 201 Scantek, Inc./ NVLAP Nov 10, 20 Norsonic Preampl</td><td>bosed of: See comments:
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Edmonton, Alberta back 780-414-6373 / -6376 CANADA T6M 0A8 ax: 780-414-6373 / -6376 CANADA T6M 0A8 add in accordance with the following procedures and standards:
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Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 201 13-Vaisala Oyj Humidity & Temp.
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Edmonton, Alberta /Fax: 780-414-6373 / -6376 CANADA T6M 0A8 sted in accordance with the following procedures and standards:
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Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 2 Program 1017 Norsonic Calibration software
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| Instrument - Manufacturer Description S/N Cal. Date Traceability evidence 483B-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2014 0S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA N 3401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA N DPI 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA N HMP233-Vaisala Oyj Humidity & Temp.
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Nov 18, 2014 ACR Env./ A2LA Nov 1
Mar 17, 2014 ACR Env./ A2LA Sep 1
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Jan 2, 2014 Scantek, Inc./ NVLAP Jan 2
Oct 15, 2013 NPL-UK / UKAS Oct 1
IPM through standards maintained by NPL (L | Address: 5031 - 210 Street
Edmonton, Alberta
CANADA T6M 0A8 ures and standards: | Customer: ACI Acoustical Consultants Inc. Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 1838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 25-360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2016 84401A-Agilent Technologies Digital Voltmeter MY41022043 Nov11, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Oyj Humidity & Temp. V382001 Mar 17, 2014 Scantek, Inc. - MP233-Vaisala Oyj Humidity & Temp. V382001 Mar 17, 2014 Scantek, Inc.

 | Serial number: 2850742 Out of tolerance: | Manufacturer: Brülel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance: | Somposed of: See comments:
Contains non-accredited tests:Yes X No Austomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Ed/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 rested in accordance with the following procedures and standards: CANADA T6M 0A8 Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 AG05AS5 Function Generator 61646 Nov 11, 2014 ACR Env./A2LA Nov 11, 2015 P141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./A2LA Nov 11, 2015 MP233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./A2LA Nov 19, 2015 Ciporam 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. Nov 10, 2015 Si3-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc. Nov 10, 2015 Si3-Norsonic Calibrator 283266 Nov 10, 2014 <t< td=""><td>mial number: 2850742 Out of tolerance: </td><td>See comments: See comments: Contains non-accredited tests: Yes X No Address: 5031 - 210 Street Ed/Fax: 780-414-6373 / -6376 Address: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation A01A-385 Function Generator 61646 Nov 11, 2014 ACR Env./A2LA Nov 11, 2015 A01A-381ent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./A2LA Nov 18, 2015 A141-Oruck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./A2LA Nov 18, 2015 AP233-Vaisala Oyj Humildity & Temp. V3820001 Mar 17, 2014 ACR Env./A2LA Nov 18, 2015 Calibration software v.6.1T
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Address: 5031 - 210 Street
Edmonton, Alberta
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ested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
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Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 19, 2015 C23-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. Nov 10, 2015 C23-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10, 2015<td>Serial number: 2850742 Out of tolerance: </td><td>Serial number: 2850742 Out of tolerance: </td><td>Serial number: 2850742 Out of tolerance: </td><td>Serial number: 2850742 Out of tolerance: Composed of: See comments: Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta rel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Pested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 388-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 S-360-SRS Function Generator Glide6 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 PI 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2015 CProgram 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Nov 10, 2015</td><td>Initial number: 2850742 Out of tolerance: </td><td>Initial number: 2850742 Out of tolerance: Imposed of: See comments: Contains non-accredited tests: Yes X_ No Stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta U/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 sted in accordance with the following procedures and standards: CANADA T6M 0A8 sted in accordance with the following procedures and standards: Callibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 strument acturer Description S/N Cal. Date Traceability evidence Cal. Due shorsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc. / NVLAP Jul 2, 2015 Sto2A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./A2LA Nov 13, 2015 Address Visitation software v.6.1T Nov 2014 Scantek, Inc. Cal. Sep 17, 2015 3-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 2233-Vaisala Ovj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 10, 2015 3-Norsonic</td><td>Ial number: 2850742 Out of tolerance: See comments: Imposed of: See comments: Contains non-accredited tests: Yes X_ No Address: 5031 - 210 Street Edmonton, Alberta Afrax: 780-414-6373 / -6376 CANADA T6M 0A8 Atted in accordance with the following procedures and standards: alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Attement - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due -Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc. / NVLAP Jul 2, 2015 60-585 Function Generator 61666 Nov 11, 2014 ACR Env. / A2LA Nov 13, 2014 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 18, 2014 233-Vaisala Ovj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 10, 2011 -Norsonic Calibration software v. 6.1T Nov 2014 Scantek, Inc. / NUAP Jan 2, 2015 233-Vaisala Ovj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 10, 2011 -Norsonic<td>rial number: 2850742 Out of tolerance: imposed of: See comments: Contains non-accredited tests: Yes XNo stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street istomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street istomer: RCI Acoustical Consultants Inc. Address: 5031 - 210 Street istomer: RCI Acoustical Consultants Inc. Address: 5031 - 210 Street istomer: 780-414-6373 / -6376 CANADA T6M 0A8 sted in accordance with the following
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Address: 5031 - 210 Street Edmonton, Alberta el/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Edmonton, Alberta ested in accordance with the following procedures and standards: Callbration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 nstrumentation used for calibration: N-1504 Norsonic Test System: nstrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due 38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 -360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 1141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 201 M233-Vaisala Oyj Humidity & Temp. 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Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards:
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Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2015 CProgram 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. Nov 20, 2015 M23-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP</td><td>erial number: 2850742 Out of tolerance: Composed of: See comments: Contains non-accredited tests: Yes _X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta rel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 rested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 enstrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 138-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc. / NVLAP Jul 2, 2015 0:360-SRS Function
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Customer: ACI Acoustical Consultants Inc. Address: S031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
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MP233-Vaisala Oyj Humidity & Temp.
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Scantek, Inc. / NVLAP Jul 2, 2015
Jubo-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2011
Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)
and NIST (USA)</td><td>iai number: 2850742 Out of tolerance: imposed of: See comments: Contains non-accredited tests: Yes X No stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta CANADA T6M 0A8 //Fax: 780-414-6373 / -6376 CANADA T6M 0A8 sted in accordance with the following procedures and standards: alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 strumentation used for calibration: N-1504 Norsonic Test System: trument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due SNOrsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 Seares Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 20 Sub-Asglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 20 Stada Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 20 Stada Oyj Humidity & Temp. 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and NIST (USA)</td><td>and NIST (USA)</td><td>and NIST (USA)</td></td></td></td></td></t<> | mial number: 2850742 Out of tolerance:

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 | Arrial number: 2850742 Out of tolerance: | Manufacturer: Brüel & Kjær In tolerance: X X Gerial number: 2850742 Out of tolerance: | erial number: 2850742 Out of tolerance:
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Address: 5031 - 210 Street
Edmonton, Alberta
ed/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
ested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
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 | anufacturer: Brüel & Kjær In tolerance: X X prial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X No astomer: ACI Acoustical Consultants Inc. Address: S031 - 210 Street Edmonton, Alberta exted in accordance with the following procedures and standards: CaNADA T6M 0A8 Edmonton, Alberta calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Strumentation used for calibration: N-1504 Norsonic Test System: strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 88-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 19233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016 30-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Jul 2, 2015 30-Norsonic <td>Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Cel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Pested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 138-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc., NVLAP Jul 2, 2015 5-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2016 1401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015 2141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 18, 2016 MP233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Sep 17, 2015 253-Norsonic Calibration software v. 6.1T Nov 2014 Scantek, Inc., NVLAP Jul 2, 2015 203-Norsonic Calibrator</td> <td>erial number: 2850742 Out of tolerance: </td> <td>Composed of: See comments:
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Edmonton, Alberta Tere/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards:
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Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 19, 2015 C23-Norsonic Calibration
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Address: 5031 - 210 Street istomer: 780-414-6373 / -6376 CANADA T6M 0A8 sted in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 strumentation used for calibration: N-1504 Norsonic Test System: strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 8-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov18, 201 Program 1017 Norsonic</td><td>al number: 2850742 Out of tolerance: apposed of: See comments: comer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta Fax: 780-414-6373 / -6376 CANADA T6M 0A8 red in accordance with the following procedures and standards: Edmonton, Alberta libration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 rumentation used for calibration: N-1504 Norsonic Test System: nument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 0-SRS Function Generator 61664 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 A-Agilent Technologies Digital Voltmeter MV41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 201 33-Vaisala Ovj Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 201 Norsonic Calibration software v. 6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 201 33-Vaisala Ovj Transmitter V3820001<td>Imposed of: See comments: tomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street tomer: Totalian anon-accredited tests: </td><td>See comments: Contains non-accredited tests: Yes X No Act Acoustical Consultants Inc. Address: 5031 - 210 Street JFax: 780-414-6373 / -6376 CANADA T6M 0A8 Act accordance with the following procedures and standards: alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Atrumentation used for calibration: N-1504 Norsonic Test System: Traceability evidence Cal. Due Trument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due Morsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 60-SR5 Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2016 124-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015 123-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 10, 2015 123-Vaisala Oyj Transmitter V3820001 Mar 17, 2014 Scantek, Inc. Nov 10, 2015 124-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015</td><td>Manufacturer: Brüel & Kjær In tolerance: X X erial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X No ustomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta el/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Edmonton, Alberta ested in accordance with the following procedures and standards: Callbration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 nstrumentation used for calibration: N-1504 Norsonic Test System: nstrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due 38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 -360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 1141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 201 M233-Vaisala Oyj Humidity & Temp. 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X rial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X No stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta I/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Steed in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Strumentation used for calibration: N-1504 Norsonic Test System: strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due B-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2015 Program 1017 Norsonic Calibration software v.6.1T Validated Scantek, Inc./ NVLAP Nov 10, 2015 3-Norsonic Preasure Indicator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10, 2015</td><td>Brüel & Kjær In tolerance: X X prial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X No ustomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta exted in accordance with the following procedures and standards: CaNADA T6M 0A8 CaNADA T6M 0A8 ested in accordance with the following procedures and standards: Callibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 estrumentation used for calibration: N-1504 Norsonic Test System: See Traceability evidence Cal. Due strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 1014-Agilent Technologies Digital Voitmeter MY41022043 Nov 13, 2014 ACR Env. / A2LA Nov 11, 2015 1123-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 10, 2015 33-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Jan 2, 2015 33-Norsonic Preamplifier</td><td>In tolerance: X X perial number: 2850742 Out of tolerance: </td><td>erial number: 2850742 Out of tolerance: </td><td>Composed of: See comments:
Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards:
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Customer: ACI Acoustical Consultants Inc. Address: S031 - 210 Street
Edmonton, Alberta
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Tested in accordance with the following procedures and standards:
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MP233-Vaisala Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 Scantek, Inc. / NVLAP Jul 2, 2015
Scantek, Inc. / NVLAP Jul 2, 2015
Jubo-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2011
Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)
and NIST (USA)</td><td>iai number: 2850742 Out of tolerance: imposed of: See comments: Contains non-accredited tests: Yes X No stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta CANADA T6M 0A8 //Fax: 780-414-6373 / -6376 CANADA T6M 0A8 sted in accordance with the following procedures and standards: alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 strumentation used for calibration: N-1504 Norsonic Test System: trument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due SNOrsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 Seares Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 20 Sub-Asglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 20 Stada Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 20 Stada Oyj Humidity & Temp. V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 13, 20 Stada Oyj Humidity & Temp</td><td>See comments: Contains non-accredited tests: Yes X No tomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Fax: 780-414-6373 / -6376 CANADA T6M 0A8 red in accordance with the following procedures and standards: Ilibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 rumentation used for calibration: N-1504 Norsonic Test System: rument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./, NVLAP Jul 2, 201 0-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 201 11-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 13, 201 123-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 201 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NULAP Nov 10, 201 Norsonic Preamplifi</td><td>sosed of: See comments: contains non-accredited tests: Yes X_No omer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street ax: 780-414-6373 / -6376 CANADA T6M 0A8 ed in accordance with the following procedures and standards: Edmonton, Alberta ibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 umentation used for calibration: N-1504 Norsonic Test System: ament - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due forsonic SME Cal Unit 25747 Jul 2, 2014
Scantek, Inc./ NVLAP Jul 2, 201 SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 Adgilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 201 13-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Sep 17, 20 13-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 18, 201 1017 Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10</td><td>Contains non-accredited tests:Yes X No Actioner: Actionation accordance consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta /Fax: 780-414-6373 / -6376 Canada rest Edmonton, Alberta Canada rest alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Traceability evidence Cal. Due trumentation used for calibration: N-1504 Norsonic Test System: Traceability evidence Cal. Due Morsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 60-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 20 12-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov 13, 20 233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 18, 20 Norsonic Calibration software v.6.1T Validated Scantek, Inc. / NVLAP Jon 2, 201 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. / NVLAP Jon 2, 201 Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc. / NVLAP</td><td>Contains non-accredited tests:Yes X No Stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street V/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Steed in accordance with the following procedures and standards: Call Date Canada Canada</td><td>Customer: ACI Acoustical Consultants Inc. Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Date Add12, 2014 Scantek, Inc., NVLAP Jul 2, 201 DS-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 20 05-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 20 07141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 18, 20 HMP233-Vaisala Ovj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 18, 20 PC Program 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc., NVLAP Nov 20, 20 1253-Norsonic</td><td>Contains non-accredited tests: Yes X No ustomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street el/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ested in accordance with the following procedures and standards: Callbration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 nstrumentation used for calibration: N-1504 Norsonic Test System: nstrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Du 38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 20 360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2 401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 2 1141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 13, 2 1420-Sasial Ovj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 2 153-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc., NVLAP Nov 10, 2 38-Norsonic Calibrator 28326</td><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)
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and NIST (USA)</td><td>and NIST (USA)</td><td>and NIST (USA)</td></td></td></td> | Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Cel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Pested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 138-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc., NVLAP Jul 2, 2015 5-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2016 1401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015 2141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 18, 2016 MP233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Sep 17, 2015 253-Norsonic Calibration software v. 6.1T Nov 2014 Scantek, Inc., NVLAP Jul 2, 2015 203-Norsonic Calibrator

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Edmonton, Alberta Tere/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards:
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Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 19, 2015 C23-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. Nov 10, 2015 C23-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10, 2015 <td>Serial number: 2850742 Out of tolerance: </td> <td>Serial number: 2850742 Out of tolerance: </td> <td>Serial number: 2850742 Out of tolerance: </td> <td>Serial number: 2850742 Out of tolerance: Composed of: See comments: Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta rel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Pested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. 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Address: 5031 - 210 Street istomer: 780-414-6373 / -6376 CANADA T6M 0A8 sted in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 strumentation used for calibration: N-1504 Norsonic Test System: strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 8-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov18, 201 Program 1017 Norsonic</td><td>al number: 2850742 Out of tolerance: apposed of: See comments: comer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta Fax: 780-414-6373 / -6376 CANADA T6M 0A8 red in accordance with the following procedures and standards: Edmonton, Alberta libration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 rumentation used for calibration: N-1504 Norsonic Test System: nument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 0-SRS Function Generator 61664 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 A-Agilent Technologies Digital Voltmeter MV41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 201 33-Vaisala Ovj Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 201 Norsonic Calibration software v. 6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 201 33-Vaisala Ovj Transmitter V3820001<td>Imposed of: See comments: tomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street tomer: Totalian anon-accredited tests: </td><td>See comments: Contains non-accredited tests: Yes X No Act Acoustical Consultants Inc. Address: 5031 - 210 Street JFax: 780-414-6373 / -6376 CANADA T6M 0A8 Act accordance with the following procedures and standards: alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Atrumentation used for calibration: N-1504 Norsonic Test System: Traceability evidence Cal. Due Trument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due Morsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 60-SR5 Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2016 124-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015 123-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 10, 2015 123-Vaisala Oyj Transmitter V3820001 Mar 17, 2014 Scantek, Inc. Nov 10, 2015 124-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015</td><td>Manufacturer: Brüel & Kjær In tolerance: X X erial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X No ustomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta el/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Edmonton, Alberta ested in accordance with the following procedures and standards: Callbration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 nstrumentation used for calibration: N-1504 Norsonic Test System: nstrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation
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Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
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MP233-Vaisala Oyj Humidity & Temp.
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Scantek, Inc. / NVLAP Jul 2, 2015
Jubo-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2011
Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)
and NIST (USA)</td><td>iai number: 2850742 Out of tolerance: imposed of: See comments: Contains non-accredited tests: Yes X No stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta CANADA T6M 0A8 //Fax: 780-414-6373 / -6376 CANADA T6M 0A8 sted in accordance with the following procedures and standards: alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 strumentation used for calibration: N-1504 Norsonic Test System: trument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due SNOrsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 Seares Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 20 Sub-Asglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 20 Stada Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 20 Stada Oyj Humidity & Temp. V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 13, 20 Stada Oyj Humidity & Temp</td><td>See comments: Contains non-accredited tests: Yes X No tomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Fax: 780-414-6373 / -6376 CANADA T6M 0A8 red in accordance with the following procedures and standards: Ilibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 rumentation used for calibration: N-1504 Norsonic Test System: rument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./, NVLAP Jul 2, 201 0-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 201 11-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 13, 201 123-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 201 Norsonic Calibration software v.6.1T
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V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 18, 201 1017 Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10</td><td>Contains non-accredited tests:Yes X No Actioner: Actionation accordance consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta /Fax: 780-414-6373 / -6376 Canada rest Edmonton, Alberta Canada rest alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Traceability evidence Cal. Due trumentation used for calibration: N-1504 Norsonic Test System: Traceability evidence Cal. Due Morsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 60-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 20 12-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov 13, 20 233-Vaisala Oyj Humidity & Temp. 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Du 38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 20 360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2 401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 2 1141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 13, 2 1420-Sasial Ovj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 2 153-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc., NVLAP Nov 10, 2 38-Norsonic Calibrator 28326</td><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)
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 | Initial number: 2850742 Out of tolerance: Imposed of: See comments: Contains non-accredited tests: Yes X_ No Stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta U/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 sted in accordance with the following procedures and standards: CANADA T6M 0A8 sted in accordance with the following procedures and standards: Callibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 strument acturer Description S/N Cal. Date Traceability evidence Cal. Due shorsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc. / NVLAP Jul 2, 2015 Sto2A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./A2LA Nov 13, 2015 Address Visitation software v.6.1T Nov 2014 Scantek, Inc. Cal. Sep 17, 2015 3-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 2233-Vaisala Ovj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 10, 2015 3-Norsonic

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Customer: ACI Acoustical Consultants Inc. Address: S031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due
Cal. Lab / Accreditation Cal. Due
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SS-360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov 11, 201
Pri 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 11, 201
IMP233-Vaisala Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 18, 201
MP233-Vaisala Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 Scantek, Inc. / NVLAP Jul 2, 2015
Scantek, Inc. / NVLAP Jul 2, 2015
Jubo-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2011
Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)
and NIST (USA)</td><td>iai number: 2850742 Out of tolerance: imposed of: See comments: Contains non-accredited tests: Yes X No stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta CANADA T6M 0A8 //Fax: 780-414-6373 / -6376 CANADA T6M 0A8 sted in accordance with the following procedures and standards: alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 strumentation used for calibration: N-1504 Norsonic Test System: trument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due SNOrsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 Seares Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 20 Sub-Asglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 20 Stada Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 20 Stada Oyj Humidity & Temp. V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 13, 20 Stada Oyj Humidity & Temp</td><td>See comments: Contains non-accredited tests: Yes X No tomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Fax: 780-414-6373 / -6376 CANADA T6M 0A8 red in accordance with the following procedures and standards: Ilibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 rumentation used for calibration: N-1504 Norsonic Test System: rument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./, NVLAP Jul 2, 201 0-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 201 11-Druck Pressure Indicator 790/00-04 Nov 18, 2014
ACR Env./ A2LA Nov 13, 201 123-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 201 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NULAP Nov 10, 201 Norsonic Preamplifi</td><td>sosed of: See comments: contains non-accredited tests: Yes X_No omer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street ax: 780-414-6373 / -6376 CANADA T6M 0A8 ed in accordance with the following procedures and standards: Edmonton, Alberta ibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 umentation used for calibration: N-1504 Norsonic Test System: ament - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due forsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 Adgilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 201 13-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Sep 17, 20 13-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 18, 201 1017 Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10</td><td>Contains non-accredited tests:Yes X No Actioner: Actionation accordance consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta /Fax: 780-414-6373 / -6376 Canada rest Edmonton, Alberta Canada rest alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Traceability evidence Cal. Due trumentation used for calibration: N-1504 Norsonic Test System: Traceability evidence Cal. Due Morsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 60-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 20 12-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov 13, 20 233-Vaisala Oyj Humidity & Temp. 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V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 2 153-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc., NVLAP Nov 10, 2 38-Norsonic Calibrator 28326</td><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>180-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) and NIST (USA) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK) Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)</td><td>Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)
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13, 201 33-Vaisala Ovj Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 201 Norsonic Calibration software v. 6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 201 33-Vaisala Ovj Transmitter V3820001 <td>Imposed of: See comments: tomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street tomer: Totalian anon-accredited tests: </td> <td>See comments: Contains non-accredited tests: Yes X No Act Acoustical Consultants Inc. Address: 5031 - 210 Street JFax: 780-414-6373 / -6376 CANADA T6M 0A8 Act accordance with the following procedures and standards: alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Atrumentation used for calibration: N-1504 Norsonic Test System: Traceability evidence Cal. Due Trument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due Morsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 60-SR5 Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2016 124-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015 123-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 10, 2015 123-Vaisala Oyj Transmitter V3820001 Mar 17, 2014 Scantek, Inc. Nov 10, 2015 124-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015</td> <td>Manufacturer: Brüel & Kjær In tolerance: X X erial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X No ustomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta el/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Edmonton, Alberta ested in accordance with the following procedures and standards: Callbration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 nstrumentation used for calibration: N-1504 Norsonic Test System: nstrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due 38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 -360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 1141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 201 M233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 19, 201 90-Norsonic Calibration software v.6.1T Nov 2014 S</td> <td>Ial number: 2850742 Out of tolerance: </td> <td>Iai number: 2850742 Out of tolerance: </td> <td>Denufacturer: Brüel & Kjær In tolerance: X X rial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X No stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta I/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Steed in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Strumentation used for calibration: N-1504 Norsonic Test System: strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due B-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2015 Program 1017 Norsonic Calibration software v.6.1T Validated Scantek, Inc./ NVLAP Nov 10, 2015 3-Norsonic Preasure Indicator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10, 2015</td> <td>Brüel & Kjær In tolerance: X X prial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X No ustomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta exted in accordance with the following procedures and standards: CaNADA T6M 0A8 CaNADA T6M 0A8 ested in accordance with the following procedures and standards: Callibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 estrumentation used for calibration: N-1504 Norsonic Test System: See Traceability evidence Cal. Due strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 1014-Agilent Technologies Digital Voitmeter MY41022043 Nov 13, 2014 ACR Env. / A2LA Nov 11, 2015 1123-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 10, 2015 33-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Jan 2, 2015 33-Norsonic Preamplifier</td> <td>In tolerance: X X perial number: 2850742 Out of tolerance: </td> <td>erial number: 2850742 Out of tolerance: </td> <td>Composed of: See comments:
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Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards:
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Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
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IMP233-Vaisala Oyj Humidity & Temp.
Transmitter V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 18, 201
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V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 18, 20 Norsonic Calibration software v.6.1T Validated Scantek, Inc. / NVLAP Jon 2, 201 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. / NVLAP Jon 2, 201 Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc. / NVLAP</td> <td>Contains non-accredited tests:Yes X No Stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street V/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Steed in accordance with the following procedures and standards: Call Date Canada Canada</td> <td>Customer: ACI Acoustical Consultants Inc. Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. 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 | See comments: Contains non-accredited tests: Yes X No Act Acoustical Consultants Inc. Address: 5031 - 210 Street JFax: 780-414-6373 / -6376 CANADA T6M 0A8 Act accordance with the following procedures and standards: alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Atrumentation used for calibration: N-1504 Norsonic Test System: Traceability evidence Cal. Due Trument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due Morsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 60-SR5 Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2016 124-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015 123-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 10, 2015 123-Vaisala Oyj Transmitter V3820001 Mar 17, 2014 Scantek, Inc. Nov 10, 2015 124-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015
 | Manufacturer: Brüel & Kjær In tolerance: X X erial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X No ustomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta el/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Edmonton, Alberta ested in accordance with the following procedures and standards: Callbration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 nstrumentation used for calibration: N-1504 Norsonic Test System: nstrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due 38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 -360-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 1141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 201 M233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 19, 201 90-Norsonic Calibration software v.6.1T Nov 2014 S | Ial number: 2850742 Out of tolerance:
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 | Brüel & Kjær In tolerance: X X prial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X No ustomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta exted in accordance with the following procedures and standards: CaNADA T6M 0A8 CaNADA T6M 0A8 ested in accordance with the following procedures and standards: Callibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 estrumentation used for calibration: N-1504 Norsonic Test System: See Traceability evidence Cal. Due strument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 1014-Agilent Technologies Digital Voitmeter MY41022043 Nov 13, 2014 ACR Env. / A2LA Nov 11, 2015 1123-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 10, 2015 33-Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Jan 2, 2015 33-Norsonic Preamplifier | In tolerance: X X perial number: 2850742 Out of tolerance:
 | erial number: 2850742 Out of tolerance: | Composed of: See comments:
Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence
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 | erial number: 2850742 Out of tolerance: Composed of: See comments: Contains non-accredited tests: Yes _X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta rel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 rested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 enstrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 138-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc. / NVLAP Jul 2, 2015 0:360-SRS Function Generator folde6 Nov 11, 2014 ACR Env./A2LA Nov11, 2015 0:31401-Arglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./A2LA Nov 11, 2015 0:401-Arglient Technologies Digital Voltmeter Y3820001 Mar 17, 2014 ACR Env./A2LA Nov 11, 2015 0:401-Arglient Technologies Digital Voltmeter Nov 2014 Scantek, Inc./ NVLAP | Serial number: 2850742 Out of tolerance:
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Customer: ACI Acoustical Consultants Inc. Address: S031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8
Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
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MP233-Vaisala Oyj Humidity & Temp.
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Scantek, Inc. / NVLAP Jul 2, 2015
Jubo-Brüel&Kjær Microphone 2246115 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2011
Instrumentation and test results are traceable to SI - BIPM through standards maintained by NPL (UK)
and NIST (USA) | iai number: 2850742 Out of tolerance: imposed of: See comments: Contains non-accredited tests: Yes X No stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta CANADA T6M 0A8 //Fax: 780-414-6373 / -6376 CANADA T6M 0A8 sted in accordance with the following procedures and standards: alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 strumentation used for calibration: N-1504 Norsonic Test System: trument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due SNOrsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 Seares Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 20 Sub-Asglient Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 20 Stada Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 13, 20 Stada Oyj Humidity & Temp. V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 13, 20 Stada Oyj Humidity & Temp | See comments: Contains non-accredited tests: Yes X No tomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Fax: 780-414-6373 / -6376 CANADA T6M 0A8 red in accordance with the following procedures and standards: Ilibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 rumentation used for calibration: N-1504 Norsonic Test System: rument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./, NVLAP Jul 2, 201 0-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 201 11-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 13, 201 123-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 201 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NULAP Nov 10, 201 Norsonic Preamplifi | sosed of: See comments: contains non-accredited tests: Yes X_No omer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street ax: 780-414-6373 / -6376 CANADA T6M 0A8 ed in accordance with the following procedures and standards: Edmonton, Alberta ibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 umentation used for calibration: N-1504 Norsonic Test System: ament - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due forsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 201 Adgilent Technologies Digital
Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 13, 201 13-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Sep 17, 20 13-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 Scantek, Inc./ NVLAP Nov 18, 201 1017 Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10 | Contains non-accredited tests:Yes X No Actioner: Actionation accordance consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta /Fax: 780-414-6373 / -6376 Canada rest Edmonton, Alberta Canada rest alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Traceability evidence Cal. Due trumentation used for calibration: N-1504 Norsonic Test System: Traceability evidence Cal. Due Morsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 60-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 20 12-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov 13, 20 233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 18, 20 Norsonic Calibration software v.6.1T Validated Scantek, Inc. / NVLAP Jon 2, 201 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc. / NVLAP Jon 2, 201 Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc. / NVLAP | Contains non-accredited tests:Yes X No Stomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street V/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Steed in accordance with the following procedures and standards: Call Date Canada | Customer: ACI Acoustical Consultants Inc. Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Date Add12, 2014 Scantek, Inc., NVLAP Jul 2, 201 DS-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 20 05-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA
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| Instrument - Manufacturer Description S/N Cal. Date Traceability evidence
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Jan 2, 2014 Scantek, Inc./ NVLAP Jan 2
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IPM through standards maintained by NPL (L
Authorized signatory: Mariana Buzdug
Signature Muthorized Scantek | Address: 5031 - 210 Street
Edmonton, Alberta
CANADA T6M 0A8 ures and standards: | Customer: ACI Acoustical Consultants Inc. Contains non-accredited tests: Yes_X No Customer: 780-414-6373 / -6376 Address: 5031 - 210 Street Te//Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description \$/N Cal. Date Traceability evidence
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 | Gerial number: 2850742 Out of tolerance: See comments: Composed of: See comments: Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edimonton, Alberta Edimonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Prested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Gali bas Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 Sa-60-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 Sa-60-SR5 Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2015 Addressi Pi 41-0ruck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Ovj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 10, 2015 Sconsonic Calibration software v.6.1T< | Manufacturer: Brüel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance: See comments: See comments: Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: S031 - 210 Street Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrument-ion used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due 388-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 388-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 191141-Druck Pressure Indicator 790/00-04 Nov 13, 2014 ACE Env./ A2LA Nov 13, 2016 M2032-Vaisala Ovj Humi | See comments: See comments: Customer: ACI Acoustical Consultants Inc. Address: S031 - 210 Street Editorian non-accredited tests: _Yes X No Address: S031 - 210 Street Editorian non-accredited tests: _Yes X No Address: S031 - 210 Street Editorian non-accredited tests: _Yes X No Address: S031 - 210 Street Editorian non-accredited tests: _Yes X No Address: S031 - 210 Street Editorian non-accredited tests: _Yes X No Address: S031 - 210 Street Editorian non-accredited tests: _Yes X No Address: Call Date Callbration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Date Street atton Novi 12, 2015 >360-SBS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Novi 12, 2015 >141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 MP233-Vaisala Ovj

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Contains non-accredited tests:Yes X No
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Edmonton, Alberta | anufacturer: Brüel & Kjær In tolerance: X X virial number: 2850742 Out of tolerance: See comments: Contains non-accredited tests: Yes X No istomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta et/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Address: S031 - 210 Street ested in accordance with the following procedures and standards: Callbration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Strumentation used for calibration: N-1504 Norsonic Test System: strument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation 18-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 11, 2015 1923-Vaisala Oyj Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Sep 17, 2015 19-Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ NVLAP

 | Contains non-accredited tests: Yes_X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Cel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Feeted in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 1388-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 5360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2016 MP233-Vaisala Oyj Humidity & Temp. 790/00-04 Nov 18, 2014 ACR Env. / A2LA Nov 18, 2016 Program 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Jul 2, 2015 253-Norsonic Preasmifter 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 263-Norsonic Preamplifter 244515 Oct 15, 2013 NPL-UK / UKAS Oct 15, 2015 263-Norsonic Preamplifte

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Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description \$/N Cal. Date Traceability evidence
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Transmitter V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 10, 2015 CProgram 1017 Norsonic Calibration software v.6.1T Nov 2014 Scantek, Inc./ NVLAP Nov 10, 2015 203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP</td> <td>Serial number: 2850742 Out of tolerance: See comments: Composed of: See comments: Contains non-accredited tests: Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrument-Manufacturer Description S/N Cal. Date Traceability evidence Cal. 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Fax: 780-414-6373 / -6376 Fax: 780-414-6373 / -6376 CANADA T6M 0A8 red in accordance with the following procedures and standards: libration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 rument - Manufacturer Description SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Norsonic SME Cal Unit OSRS Function Generator Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2014 ACR Env./ A2LA Acglient Technologies Digital Voltmeter Mumidity & Temp. V3820001 Ya820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2014 Scantek, Inc./ NULAP Norsonic Calibration software v.6.1T Norsonic Calibrator 28326 Nory 10, 2014 Scantek, Inc./ NULAP Nov 10, 201 Norsonic Calibrator 283</td> <td>Imposed of: See comments: Contains non-accredited tests: Yes_X_No tomer: ACI Acoustical Consultants Inc. 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Address: 5031 - 210 Street /Fax: 780-414-6373 / -6376 Address: 5031 - 210 Street eted in accordance with the following procedures and standards: alibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 trumentation used for calibration: N-1504 Norsonic Test System: trument - Manufacturer Description S/N Cal. Date Cal. Lab / Accreditation Cal. Due -Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 201 Address Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 20 Addressiala Oyj Humidity & Temp. 790/00-04 Nov 13, 2014 ACR Env. / A2LA Nov 13, 20 rogram 1017 Norsonic Calibration software v.6.1T Validated Scantek, Inc./ NVLAP Jul 2, 201 -Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ Nov 13, 20 -Norsonic Calibrator 28326 Nov 10, 2014 Scantek, Inc./ Nov 10, 200 -Norsonic Preamplifier 14059 J</td><td>ACI Acoustical Consultants Inc. Contains non-accredited tests:Yes X No Astomer: ACI Acoustical Consultants Inc. 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Address: 5031 - 210 Street el/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 ested in accordance with the following procedures and standards: Cal. Date Traceability evidence Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: nstrument - Manufacturer Description S/N Cal. Date Traceability evidence 38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 20 -360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2 1141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2 Alp233-Vaisala Oyj Humidity & Temp. 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Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376
CANADA T6M 0A8
Tested in accordance with the following procedures and standards:
Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
Instrumentation used for calibration: N-1504 Norsonic Test System:
Instrument - Manufacturer Description S/N Cal. Date Traceability evidence
Cal. Lab / Accreditation
SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015
S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ AZLA Nov11, 2016
4401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ AZLA Nov11, 2015
P1 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ AZLA Nov 11, 2015
MP233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 ACR Env./ AZLA Nov 18, 2016
MP233-Vaisala Oyj Humidity & Temp.
V3820001 Mar 17, 2014 ACR Env./ AZLA Sep 17, 2015
C Program 1017 Norsonic Calibration software v.6.1T Nov 2014
Scantek, Inc./ NVLAP Nov 10, 2015
S23-Norsonic Calibration Software v.6.1T Validated
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S23-Norsonic Calibration 28326 Nov 10, 2014 Scantek, Inc./ NVLAP Nov 10, 2015
S23-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Jan 2, 2015 | Serial number: 2850742
Composed of:
Composed of:
Contains non-accredited tests:Yes X No
Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
Edmonton, Alberta
Tel/Fax: 780-414-6373 / -6376
CANADA T6M 0A8
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P1 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016
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c., Rev. 11/30/2010 | Address: 5031 - 210 Street
Edmonton, Alberta
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atek, Inc., Rev. 11/30/2010 | Customer: ACI Acoustical Consultants Inc. Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010

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S747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 20 | Customer: ACI Acoustical Consultants Inc. Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 1838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015

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S747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 20 | Customer: ACI Acoustical Consultants Inc. Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 1838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015

 | Serial number: 2850742 Out of tolerance: | Manufacturer: Brüel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance: | Composed of: See comments:
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 | Customer: ACI Acoustical Consultants Inc. Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Tel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal, Date Traceability evidence Cal. Due 338-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 5-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov11, 2016 H401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015 PI 141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016 MP2332 Vaicala Ovi Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Sen 17, 2015

 | Terial number: 2850742 Out of tolerance:

 | Composed of: See comments: Contains non-accredited tests:Yes X_ No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta CANADA T6M 0A8 Teel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Tested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description SME Cal Unit 25747 S-360-SRS Function Generator Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA MV1022043 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 Pi 141-Druck Pressure Indicator 790/00-04 MP233.Vaicala Ovi Humidity & Temp. V3820001

 | Serial number: 2850742 Out of tolerance: | Serial number: 2850742 Out of tolerance: | Serial number: 2850742 Out of tolerance: | Serial number: 2850742 Out of tolerance: Composed of: See comments: Contains non-accredited tests:Yes X No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Edmonton, Alberta Edmonton, Alberta CANADA T6M 0A8 Fel/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 Fested in accordance with the following procedures and standards: Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due 838-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2015 S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015 S-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov 12, 2015 < | Image: Second

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austomer: ACI Acoustical Consultants Inc.
el/Fax: 780-414-6373 / -6376
Contains non-accredited tests:Yes X No
Address: 5031 - 210 Street
Edmonton, Alberta
CANADA T6M 0A8
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-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env. / A2LA Nov11, 2016
401A-Agilent Technologies Digital Voltmeter MY41022043 Nov 11, 2014 ACR Env. / A2LA Nov 11, 2015
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 | Contains non-accredited tests: Yes X No ustomer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street el/Fax: 780-414-6373 / -6376 CANADA T6M 0A8 ested in accordance with the following procedures and standards: CANADA T6M 0A8 calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 nstrumentation used for calibration: N-1504 Norsonic Test System: nstrument - Manufacturer Description SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP -360-SR5 Function Generator Function Generator 61646 Mov 11, 2014 ACR Env./ A2LA ACR Env. / A2LA Nov 11, 2014 ACR Env. / A2LA Nov 13, 2014 | Nov 2014
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utek, Inc., Rev. 11/30/2010 S/N Cal. Date 5/747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 20
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 | Serial number: 2850742 Out of tolerance: | Manufacturer: Brüel & Kjær In tolerance: X X Serial number: 2850742 Out of tolerance: | See comments: Contains non-accredited tests: Yes_X_No Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street Customer: 780-414-6373 / -6376 CANADA T6M 0A8 Cested in accordance with the following procedures and standards: CANADA T6M 0A8 Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010 Instrumentation used for calibration: N-1504 Norsonic Test System: Instrument - Manufacturer Description S/N Cal. Date Traceability evidence Cal. Due C38-Norsonic SME Cal Unit 25747 Jul 2, 2014 Scantek, Inc./ NVLAP Jul 2, 2015 i-360-SRS Function Generator 61646 Nov 11, 2014 ACR Env./ A2LA Nov 11, 2015 V141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 11, 2015 WP233-Vaisala Oyj Humidity & Temp. V3820001 Mar 17, 2014 ACR Env./ A2LA Nov 18, 2016

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Customer: ACI Acoustical Consultants Inc. Address: 5031 - 210 Street
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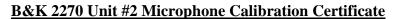
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CANADA T6M 0A8
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141-Druck Pressure Indicator 790/00-04 Nov 18, 2014 ACR Env./ A2LA Nov 18, 2016
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Calibration of Measurement Microphones, Scantek, Inc., Rev. 11/30/2010
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838-Norsonic SME Cal Unit 25747 Jul 2, 2014
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Humidity & Temp. V3820001 Mar 17, 2014 ACR Env. / A2LA Nov 18, 201
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 | 253-Norsonic Calibrator 28326 Nov 10, 2014 Scantek Inc. / NVLAP Nov 10, 2015 | |
 | | 203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Jan 2, 2015 | 203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Jan 2, 2015 | 203-Norsonic Preamplifier 14059 Jan 2, 2014 Scantek, Inc./ NVLAP Jan 2, 2015
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<u>B&K 2270 Unit #4 SLM Calibration Certificate</u>





C/ ISO 17025:	ALIBRATION LABORATO 2005, ANSI/NCSL Z54 D by NVLAP (an ILAC MF	RY 0:1994 Part :			7 L A	
Ca	libration	Certi	ficate N	No.	32427	
Model: 4 Manufacturer: E	Aicrophone 189 irüel & Kjær 643219		Date Calibrated: Status: In tolerance: Out of tolerance See comments:	Re 	eceived X	Sent X
	CI Acoustical Consulta 80-414-6373 / -6376	nts Inc.		31 - 210 9	f tests:Yes _ Street, Edmon NADA T6M 0A	ton
Instrument - Manufact 483B-Norsonic	sed for calibration: N-1 urer Description SME Cal Unit	504 NOTSONIC 5/N 25747	Cal. Date Jul 2, 2014	Cal. Lab	bility evidence / Accreditation :k, Inc./ NVLAP	Cal. Due Jul 2, 2015
DS-360-SRS	Function Generator	61646	Nov 20, 2012		Env./ A2LA	Nov 20, 2014
34401A-Agilent Technolo DPI 141-Druck	Digital Voltmeter Pressure Indicator	MY4102204 790/00-04			Env. / A2LA Env./ A2LA	Nov 22, 2014 Nov 21, 2014
HMP233-Vaisala Oyj	Humidity & Temp. Transmitter	V3820001	Mar 17, 2014	ACR	R Env./ A2LA	Sep 17, 2015
PC Program 1017 Norsor	ic Calibration software	v.6.1m	Validated July 2014	Sc	antek, Inc.	
1253-Norsonic	Calibrator	28326	Nov 8, 2013		k, Inc./ NVLAP	Nov 8, 2014 Jan 2, 2015
1203-Norsonic 4180-Brüel&Kjær	Preamplifier Microphone	14059 2246115	Jan 2, 2014 Oct 15, 2013		ek, Inc./ NVLAP L-UK / UKAS	Oct 15, 2015
Instrumentation a and NIST (USA)	nd test results are trace	eable to SI - E	BIPM through sta	ndards n	maintained by	NPL (UK)
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Date	10/03/	2014	Date	_	10/9/	2017
This Calibration Certific	or Test Reports shall not be re ate or Test Reports shall not b leral government.		product certification,			





<u>B&K 2250 Unit #5 SLM Calibration Certificate</u>





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coustical Consultan 14-6373 / -6376	ts Inc.				
Description SME Cal Unit	S/N 25747	Cal. Date	Cal. Lab	/ Accreditation	Cal. Due
Function Generator	61646	Nov 20, 2012			Nov 20, 2014
Digital Voltmeter					Nov 22, 2014
Pressure Indicator Humidity & Temp.	790/00-04	Nov 21, 2012	ACR		
Transmitter	V3820001	Mar 17, 2014	ACR	Env./ A2LA Env./ A2LA	Nov 21, 2014 Sep 17, 2015
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B&K 2250 Unit #5 Microphone Calibration Certificate



<u>B&K 2250 Unit #6 SLM Calibration Certificate</u>





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	& Kjær		In tolerance:		X	X
Serial number: 2650	/30		Out of tolerance See comments:			
Composed of:			Contains non-ad	credited	tests: Yes	X No
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	14-6373 / -6376				ADA TEM OA	
Instrumentation used f Instrument - Manufacturer 483B-Norsonic DS-360-SRS 34401A-Agilent Technologies	Description N-15 Description SME Cal Unit Function Generator Digital Voltmeter	04 Norsonic <u> \$/N</u> 25747 61646 MY4102204	Cal. Date Jul 2, 2014 Nov 20, 2012	Cal. Lab , Scantel ACR	ility evidence / Accreditation ., Inc./ NVLAP Env./ A2LA Env./ A2LA	Cal. Due Jul 2, 2015 Nov 20, 2014 Nov 22, 2014
DPI 141-Druck	Pressure Indicator	790/00-04	Nov 21, 2012		Env./ A2LA	Nov 21, 2014
HMP233-Vaisala Oyj	Humidity & Temp. Transmitter	V3820001	Mar 17, 2014	ACR	Env./ A2LA	Sep 17, 2015
PC Program 1017 Norsonic	Calibration software	v.6.1m	Validated July 2014		ntek, Inc.	-
1253-Norsonic	Calibrator	28326	Nov 8, 2013		, Inc./ NVLAP	Nov 8, 2014
1203-Norsonic	Preamplifier Microphone	14059 2246115	Jan 2, 2014 Oct 15, 2013		UK / UKAS	Jan 2, 2015 Oct 15, 2015
4180-Brüel&Kjær		able to SI - B	IPM through sta	ndards m	aintained by	
	Valentin P	lizduga	Authorized sign Signature		Mariana I	Buzduga
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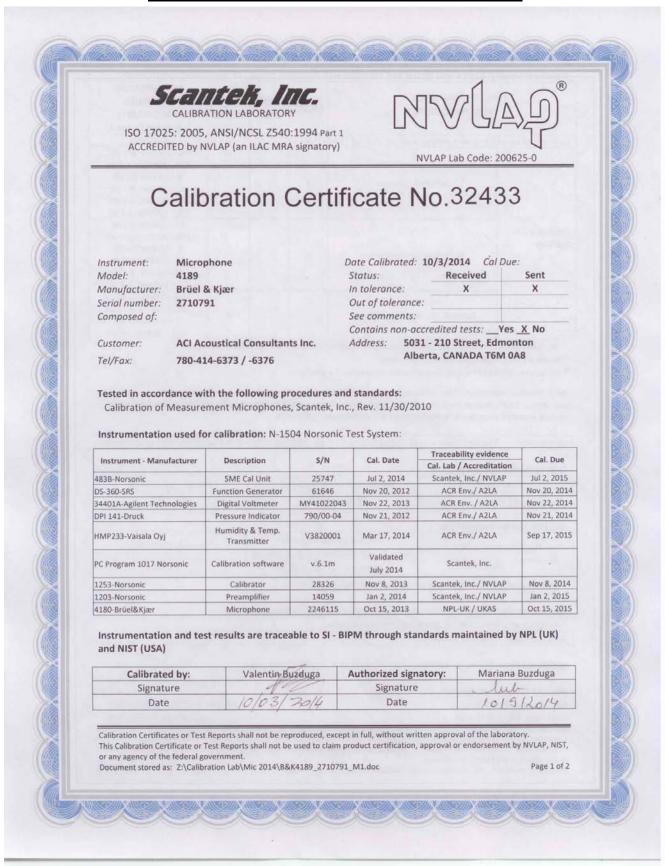




<u>B&K 2250 Unit #7 SLM Calibration Certificate</u>











B&K 2250 Unit #8 SLM Calibration Certificate





CALIB ISO 17025: 200	RATION LABORATOR 5, ANSI/NCSL Z540 NVLAP (an ILAC MR	RY D:1994 Part 1	K		b Code: 20062	25-0
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Instrumentation used Instrument - Manufacturer 483B-Norsonic	Description SME Cal Unit	504 Norsonic 1 5/N 31061	Cal. Date	Cal. Lab	vility evidence / Accreditation <, Inc./ NVLAP	Cal. Due
483B-Norsonic DS-360-SRS	Function Generator	88077	Sep 9, 2015		Env./ A2LA	Sep 9, 2016
34401A-Agilent Technologies	Digital Voltmeter	MY47011118	Sep 24, 2015		Env./ A2LA	Sep 24, 2016
HM30-Thommen	Meteo Station	1040170/39633	Oct 23, 2015	ACR	Env./ A2LA	Oct 23, 2016
PC Program 1017 Norsonic	Calibration software	v.6.1T	Validated Nov 2014	Sca	ntek, Inc.	
1253-Norsonic	Calibrator	22909	Nov 10, 2015		k, Inc./ NVLAP	Nov 10, 2016
1203-Norsonic						Oct 14, 2016
	est results are trace	able to SI - BIP	M through sta			1
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1253-Norsonic 1203-Norsonic 1180-Brüel&Kjær	Calibrator Preamplifier Microphone	22909 92268 2246115	Nov 2014 Nov 10, 2015 Oct 14, 2015 Oct 26, 2015	Scantel Scantel NPL- ndards m	s, Inc./ NVLAP s, Inc./ NVLAP -UK / UKAS	Oct 14, 20 Oct 26, 20 NPL (UK)

B&K 2250 Unit #8 Microphone Calibration Certificate



aci Project #16-030

B&K 2250 Unit #10 SLM Calibration Certificate

Brüel & Kjær 🖳 🕷 MANUFACTURER'S CERTIFICATE OF CONFORMANCE We certify that Brüel & Kjær -2250--D00- Serial No. 3007542 has been tested and passed all production tests, confirming compliance with the manufacturer's published specification at the date of the test. The final test has been performed using calibrated equipment, traceable to national or international standards or by ratio measurements. Brüel & Kjær is certified under ISO 9001:2008 assuring that all test data is retained on file and is available for inspection upon request. Nærum 30-apr-2015 C arla Torben Bjørn Vice President, Operations Please note that this document is not a calibration certificate. For information on our calibration services please go to www.bksv.com/service. **Prepolarized Free-field** 1/2" Microphone Type 4189 Bruel & Kizer **Calibration Chart** Serial No: 2978664 Open-circuit Sensitivity*, So: -27.1 dB re 1V/Pa Equivalent to: 44.2 mV/Pa 0.2 dB Uncertainty, 95 % confidence level Capacitance: 13.3 pF Valid At: Temperature: Ambient Static Pressure: Relative Humidity: 23 °C 101.3 kPa 50 % Frequency: Polarization Voltage, external: 251.2 Hz 0 V Sensitivity Traceable To: DPLA: Danish Primary Laboratory of Acoustics NIST: National Institute of Standards and Technology, USA IEC 61094-4: Type WS 2 F Environmental Calibration Conditions: 100.7 kPa 22 °C 52 % RH Procedure: 704215 Date: 27. Feb. 2015 Signature: 3(,)? " $K_0 = -26 - S_0$ Example: $K_0 = -26 - (-26.2) = +0.2 \text{ dB}$



Appendix II THE ASSESSMENT OF ENVIRONMENTAL NOISE (GENERAL)

Sound Pressure Level

Sound pressure is initially measured in Pascal's (Pa). Humans can hear several orders of magnitude in sound pressure levels, so a more convenient scale is used. This scale is known as the decibel (dB) scale, named after Alexander Graham Bell (telephone guy). It is a base 10 logarithmic scale. When we measure pressure we typically measure the RMS sound pressure.

$$SPL = 10\log_{10}\left[\frac{P_{RMS}^{2}}{P_{ref}^{2}}\right] = 20\log_{10}\left[\frac{P_{RMS}}{P_{ref}}\right]$$

Where:

SPL = Sound Pressure Level in dB $P_{RMS} =$ Root Mean Square measured pressure (Pa)

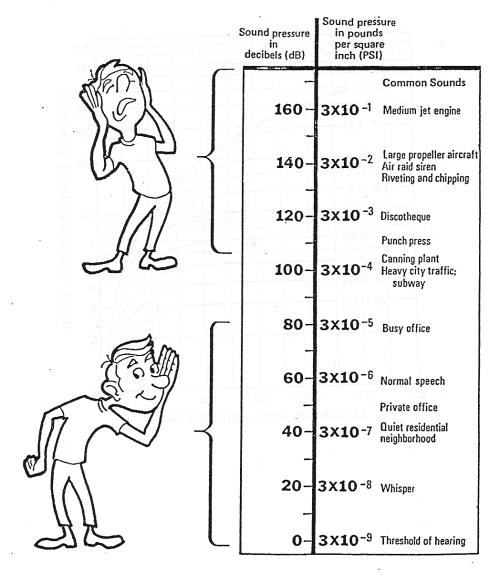
 P_{ref} = Reference sound pressure level ($P_{ref} = 2 \times 10^{-5} \text{ Pa} = 20 \text{ }\mu\text{Pa}$)

This reference sound pressure level is an internationally agreed upon value. It represents the threshold of human hearing for "typical" people based on numerous testing. It is possible to have a threshold which is lower than 20 μ Pa which will result in negative dB levels. As such, zero dB does not mean there is no sound!

In general, a difference of $1 - 2 \, dB$ is the threshold for humans to notice that there has been a change in sound level. A difference of 3 dB (factor of 2 in acoustical energy) is perceptible and a change of 5 dB is strongly perceptible. A change of 10 dB is typically considered a factor of 2. This is quite remarkable when considering that 10 dB is 10-times the acoustical energy!



aci Project #16-030





Frequency

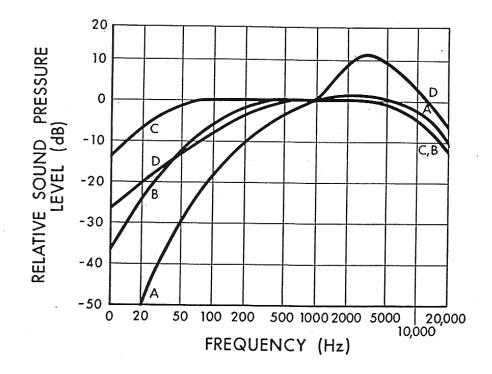
The range of frequencies audible to the human ear ranges from approximately 20 Hz to 20 kHz. Within this range, the human ear does not hear equally at all frequencies. It is not very sensitive to low frequency sounds, is very sensitive to mid frequency sounds and is slightly less sensitive to high frequency sounds. Due to the large frequency range of human hearing, the entire spectrum is often divided into 31 bands, each known as a 1/3 octave band.

The internationally agreed upon center frequencies and upper and lower band limits for the 1/1 (whole octave) and 1/3 octave bands are as follows:

	Whole Octave			1/3 Octave	
Lower Band	Center	Upper Band	Lower Band	Center	Upper Band
Limit	Frequency	Limit	Limit	Frequency	Limit
11	16	22	14.1	16	17.8
			17.8	20	22.4
			22.4	25	28.2
22	31.5	44	28.2	31.5	35.5
			35.5	40	44.7
			44.7	50	56.2
44	63	88	56.2	63	70.8
			70.8	80	89.1
			89.1	100	112
88	125	177	112	125	141
			141	160	178
			178	200	224
177	250	355	224	250	282
			282	315	355
			355	400	447
355	500	710	447	500	562
			562	630	708
			708	800	891
710	1000	1420	891	1000	1122
			1122	1250	1413
			1413	1600	1778
1420	2000	2840	1778	2000	2239
			2239	2500	2818
			2818	3150	3548
2840	4000	5680	3548	4000	4467
			4467	5000	5623
			5623	6300	7079
5680	8000	11360	7079	8000	8913
			8913	10000	11220
			11220	12500	14130
11360	16000	22720	14130	16000	17780
			17780	20000	22390



Human hearing is most sensitive at approximately 3500 Hz which corresponds to the ¹/₄ wavelength of the ear canal (approximately 2.5 cm). Because of this range of sensitivity to various frequencies, we typically apply various weighting networks to the broadband measured sound to more appropriately account for the way humans hear. By default, the most common weighting network used is the so-called "A-weighting". It can be seen in the figure that the low frequency sounds are reduced significantly with the A-weighting.



Combination of Sounds

When combining multiple sound sources the general equation is:

$$\Sigma SPL_n = 10\log_{10}\left[\sum_{i=1}^n 10^{\frac{SPL_i}{10}}\right]$$

Examples:

- Two sources of 50 dB each add together to result in 53 dB.
- Three sources of 50 dB each add together to result in 55 dB.
- Ten sources of 50 dB each add together to result in 60 dB.
- One source of 50 dB added to another source of 40 dB results in 50.4 dB

It can be seen that, if multiple similar sources exist, removing or reducing only one source will have little effect.



Sound Level Measurements

Over the years a number of methods for measuring and describing environmental noise have been developed. The most widely used and accepted is the concept of the Energy Equivalent Sound Level (L_{eq}) which was developed in the US (1970's) to characterize noise levels near US Air-force bases. This is the level of a steady state sound which, for a given period of time, would contain the same energy as the time varying sound. The concept is that the same amount of annoyance occurs from a sound having a high level for a short period of time as from a sound at a lower level for a longer period of time. The L_{eq} is defined as:

$$L_{eq} = 10\log_{10}\left[\frac{1}{T}\int_{0}^{T}10^{\frac{dB}{10}}dT\right] = 10\log_{10}\left[\frac{1}{T}\int_{0}^{T}\frac{P^{2}}{P_{ref}^{2}}dT\right]$$

We must specify the time period over which to measure the sound. i.e. 1-second, 10-seconds, 15-seconds, 1-minute, 1-day, etc. An L_{eq} is meaningless if there is no time period associated.

In general there a few very common L_{eq} sample durations which are used in describing environmental noise measurements. These include:

- L_{eq}24 Measured over a 24-hour period
- L_{eq} Night Measured over the night-time (typically 22:00 07:00)
- $L_{eq}Day$ Measured over the day-time (typically 07:00 22:00)
- L_{DN} Same as $L_{eq}24$ with a 10 dB penalty added to the night-time



Statistical Descriptor

Another method of conveying long term noise levels utilizes statistical descriptors. These are calculated from a cumulative distribution of the sound levels over the entire measurement duration and then determining the sound level at xx % of the time.

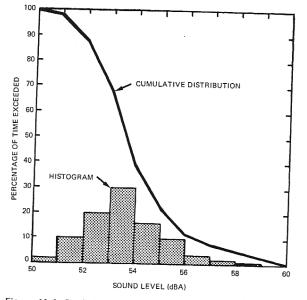


Figure 16.6 Statistically processed community noise showing histogram and cumulative distribution of A weighted sound levels.

Industrial Noise Control, Lewis Bell, Marcel Dekker, Inc. 1994

The most common statistical descriptors are:

L _{min}	- minimum sound level measured
L01	- sound level that was exceeded only 1% of the time
L ₁₀	- sound level that was exceeded only 10% of the time.
	- Good measure of intermittent or intrusive noise
	- Good measure of Traffic Noise
L50	- sound level that was exceeded 50% of the time (arithmetic average)
	- Good to compare to Leq to determine steadiness of noise
L90	- sound level that was exceeded 90% of the time
	- Good indicator of typical "ambient" noise levels
L99	- sound level that was exceeded 99% of the time
-	

 $L_{max} \quad \ \ - maximum \ sound \ level \ measured$

These descriptors can be used to provide a more detailed analysis of the varying noise climate:

- If there is a large difference between the L_{eq} and the L_{50} (L_{eq} can never be any lower than the L_{50}) then it can be surmised that one or more short duration, high level sound(s) occurred during the time period.
- If the gap between the L_{10} and L_{90} is relatively small (less than 15 20 dBA) then it can be surmised that the noise climate was relatively steady.



Sound Propagation

In order to understand sound propagation, the nature of the source must first be discussed. In general, there are three types of sources. These are known as 'point', 'line', and 'area'. This discussion will concentrate on point and line sources since area sources are much more complex and can usually be approximated by point sources at large distances.

Point Source

As sound radiates from a point source, it dissipates through geometric spreading. The basic relationship between the sound levels at two distances from a point source is:

$$\therefore SPL_1 - SPL_2 = 20\log_{10}\left(\frac{r_2}{r_1}\right)$$

Where:

e: SPL₁ = sound pressure level at location 1, SPL₂ = sound pressure level at location 2 r_1 = distance from source to location 1, r_2 = distance from source to location 2

Thus, the reduction in sound pressure level for a point source radiating in a free field is **6 dB per doubling of distance**. This relationship is independent of reflectivity factors provided they are always present. Note that this only considers geometric spreading and does not take into account atmospheric effects. Point sources still have some physical dimension associated with them, and typically do not radiate sound equally in all directions in all frequencies. The directionality of a source is also highly dependent on frequency. As frequency increases, directionality increases.

Examples (note no atmospheric absorption):

- A point source measuring 50 dB at 100m will be 44 dB at 200m.
- A point source measuring 50 dB at 100m will be 40.5 dB at 300m.
- A point source measuring 50 dB at 100m will be 38 dB at 400m.
- A point source measuring 50 dB at 100m will be 30 dB at 1000m.

Line Source

A line source is similar to a point source in that it dissipates through geometric spreading. The difference is that a line source is equivalent to a long line of many point sources. The basic relationship between the sound levels at two distances from a line source is:

$$SPL_1 - SPL_2 = 10\log_{10}\left(\frac{r_2}{r_1}\right)$$

The difference from the point source is that the '20' term in front of the 'log' is now only 10. Thus, the reduction in sound pressure level for a line source radiating in a free field is **3 dB per doubling of distance**.

Examples (note no atmospheric absorption):

- A line source measuring 50 dB at 100m will be 47 dB at 200m.
- A line source measuring 50 dB at 100m will be 45 dB at 300m.
- A line source measuring 50 dB at 100m will be 44 dB at 400m.
- A line source measuring 50 dB at 100m will be 40 dB at 1000m.



Atmospheric Absorption

As sound transmits through a medium, there is an attenuation (or dissipation of acoustic energy) which can be attributed to three mechanisms:

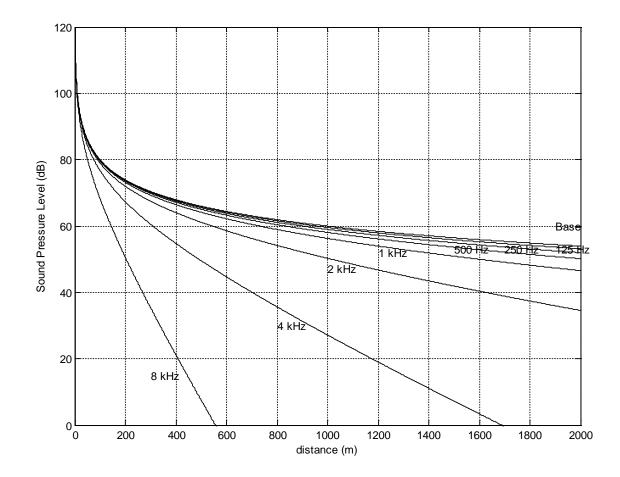
- 1) **Viscous Effects** Dissipation of acoustic energy due to fluid friction which results in thermodynamically irreversible propagation of sound.
- 2) **Heat Conduction Effects** Heat transfer between high and low temperature regions in the wave which result in non-adiabatic propagation of the sound.
- 3) **Inter Molecular Energy Interchanges** Molecular energy relaxation effects which result in a time lag between changes in translational kinetic energy and the energy associated with rotation and vibration of the molecules.

The following table illustrates the attenuation coefficient of sound at standard pressure (101.325 kPa) in units of dB/100m.

Temperature	Relative Humidity			Frequen	cy (Hz)	I	1
٥C	(%)	125	250	500	1000	2000	4000
	20	0.06	0.18	0.37	0.64	1.40	4.40
30	50	0.03	0.10	0.33	0.75	1.30	2.50
	90	0.02	0.06	0.24	0.70	1.50	2.60
	20	0.07	0.15	0.27	0.62	1.90	6.70
20	50	0.04	0.12	0.28	0.50	1.00	2.80
	90	0.02	0.08	0.26	0.56	0.99	2.10
	20	0.06	0.11	0.29	0.94	3.20	9.00
10	50	0.04	0.11	0.20	0.41	1.20	4.20
	90	0.03	0.10	0.21	0.38	0.81	2.50
	20	0.05	0.15	0.50	1.60	3.70	5.70
0	50	0.04	0.08	0.19	0.60	2.10	6.70
	90	0.03	0.08	0.15	0.36	1.10	4.10

- As frequency increases, absorption tends to increase
- As Relative Humidity increases, absorption tends to decrease
- There is no direct relationship between absorption and temperature
- The net result of atmospheric absorption is to modify the sound propagation of a point source from 6 dB/doubling-of-distance to approximately 7 8 dB/doubling-of-distance (based on anecdotal experience)





Atmospheric Absorption at 10°C and 70% RH



Meteorological Effects

There are many meteorological factors which can affect how sound propagates over large distances. These various phenomena must be considered when trying to determine the relative impact of a noise source either after installation or during the design stage.

Wind

- Can greatly alter the noise climate away from a source depending on direction
- Sound levels downwind from a source can be increased due to refraction of sound back down towards the surface. This is due to the generally higher velocities as altitude increases.
- Sound levels upwind from a source can be decreased due to a "bending" of the sound away from the earth's surface.
- Sound level differences of ± 10 dB are possible depending on severity of wind and distance from source.
- Sound levels crosswind are generally not disturbed by an appreciable amount
- Wind tends to generate its own noise, however, and can provide a high degree of masking relative to a noise source of particular interest.

Temperature

- Temperature effects can be similar to wind effects
- Typically, the temperature is warmer at ground level than it is at higher elevations.
- If there is a very large difference between the ground temperature (very warm) and the air aloft (only a few hundred meters) then the transmitted sound refracts upward due to the changing speed of sound.
- If the air aloft is warmer than the ground temperature (known as an *inversion*) the resulting higher speed of sound aloft tends to refract the transmitted sound back down towards the ground. This essentially works on Snell's law of reflection and refraction.
- Temperature inversions typically happen early in the morning and are most common over large bodies of water or across river valleys.
- Sound level differences of ±10dB are possible depending on gradient of temperature and distance from source.

<u>Rain</u>

- Rain does not affect sound propagation by an appreciable amount unless it is very heavy
- The larger concern is the noise generated by the rain itself. A heavy rain striking the ground can cause a significant amount of highly broadband noise. The amount of noise generated is difficult to predict.
- Rain can also affect the output of various noise sources such as vehicle traffic.

<u>Summary</u>

- In general, these wind and temperature effects are difficult to predict
- Empirical models (based on measured data) have been generated to attempt to account for these effects.
- Environmental noise measurements must be conducted with these effects in mind. Sometimes it is desired to have completely calm conditions, other times a "worst case" of downwind noise levels are desired.



Topographical Effects

Similar to the various atmospheric effects outlined in the previous section, the effect of various geographical and vegetative factors must also be considered when examining the propagation of noise over large distances.

Topography

- One of the most important factors in sound propagation.
- Can provide a natural barrier between source and receiver (i.e. if berm or hill in between).
- Can provide a natural amplifier between source and receiver (i.e. large valley in between or hard reflective surface in between).
- Must look at location of topographical features relative to source and receiver to determine importance (i.e. small berm 1km away from source and 1km away from receiver will make negligible impact).

Grass

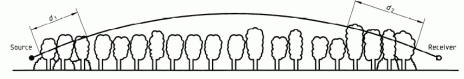
- Can be an effective absorber due to large area covered
- Only effective at low height above ground. Does not affect sound transmitted direct from source to receiver if there is line of sight.
- Typically less absorption than atmospheric absorption when there is line of sight.
 - Approximate rule of thumb based on empirical data is:

$$A_g = 18\log_{10}(f) - 31$$
 (*dB*/100*m*)

Where: A_g is the absorption amount

Trees

- Provide absorption due to foliage
- Deciduous trees are essentially ineffective in the winter
- Absorption depends heavily on density and height of trees
- No data found on absorption of various kinds of trees
- Large spans of trees are required to obtain even minor amounts of sound reduction
- In many cases, trees can provide an effective visual barrier, even if the noise attenuation is negligible.



NOTE — $d_f = d_1 + d_2$

For calculating d_1 and d_2 , the curved path radius may be assumed to be 5 km.

Figure A.1 — Attenuation due to propagation through foliage increases linearly with propagation distance $d_{\rm f}$ through the foliage

Table A.1 — Attenuation of an octave band of noise due to propagation a distance $d_{\rm f}$ through dense foliage

Propagation distance d _f			Nor	ninal midb	and freque	ncy		
				F	z			
m	63	125	250	500	1 000	2 000	4 000	8 000
	Attenuatio	on, dB:						
$10 \le d_{\rm f} \le 20$	0	0	1	1	1	1	2	3
	Attenuati	on, dB/m:						
$20 \le d_{\rm f} \le 200$	0,02	0,03	0,04	0,05	0,06	0,08	0,09	0,12

Tree/Foliage attenuation from ISO 9613-2:1996



Bodies of Water

- Large bodies of water can provide the opposite effect to grass and trees.
- Reflections caused by small incidence angles (grazing) can result in larger sound levels at great distances (increased reflectivity, Q).
- Typically air temperatures are warmer high aloft since air temperatures near water surface tend to be more constant. Result is a high probability of temperature inversion.
- Sound levels can "carry" much further.

Snow

- Covers the ground for approximately 1/2 of the year in northern climates.
- Can act as an absorber or reflector (and varying degrees in between).
- Freshly fallen snow can be quite absorptive.
- Snow which has been sitting for a while and hard packed due to wind can be quite reflective.
- Falling snow can be more absorptive than rain, but does not tend to produce its own noise.
- Snow can cover grass which might have provided some means of absorption.
- Typically sound propagates with less impedance in winter due to hard snow on ground and no foliage on trees/shrubs.



Appendix III SOUND LEVELS OF FAMILIAR NOISE SOURCES

Used with Permission Obtained from the Alberta Energy Regulator (AER) Directive 038 (February 2007)

Source¹ Sound Level (dBA)

Bedroom of a country home	30
Soft whisper at 1.5 m	30
Quiet office or living room	40
Moderate rainfall	50
Inside average urban home	50
Quiet street	50
Normal conversation at 1 m	60
Noisy office	60
Noisy restaurant	70
Highway traffic at 15 m	75
Loud singing at 1 m	75
Tractor at 15 m	78-95
Busy traffic intersection	80
Electric typewriter	80
Bus or heavy truck at 15 m	88-94
Jackhammer	88-98
Loud shout	90
Freight train at 15 m	95
Modified motorcycle	95
Jet taking off at 600 m	100
Amplified rock music	110
Jet taking off at 60 m	120
Air-raid siren	130

¹ Cottrell, Tom, 1980, *Noise in Alberta*, Table 1, p.8, ECA80 - 16/1B4 (Edmonton: Environment Council of Alberta).



SOUND LEVELS GENERATED BY COMMON APPLIANCES

Used with Permission Obtained from the Alberta Energy Regulator (AER) Directive 038 (February 2007)

Source ¹	Sound level at 3 feet (dBA)
Freezer	38-45
Refrigerator	34-53
Electric heater	47
Hair clipper	50
Electric toothbrush	48-57
Humidifier	41-54
Clothes dryer	51-65
Air conditioner	50-67
Electric shaver	47-68
Water faucet	62
Hair dryer	58-64
Clothes washer	48-73
Dishwasher	59-71
Electric can opener	60-70
Food mixer	59-75
Electric knife	65-75
Electric knife sharpener	72
Sewing machine	70-74
Vacuum cleaner	65-80
Food blender	65-85
Coffee mill	75-79
Food waste disposer	69-90
Edger and trimmer	81
Home shop tools	64-95
Hedge clippers	85
Electric lawn mower	80-90

¹ Reif, Z. F., and Vermeulen, P. J., 1979, "Noise from domestic appliances, construction, and industry," Table 1, p.166, in Jones, H. W., ed., *Noise in the Human Environment*, vol. 2, ECA79-SP/1 (Edmonton: Environment Council of Alberta).



Appendix IV DATA REMOVAL

Data Removal Noise Monitoring Location #1

Start Time	End Time	Duration (min)	Reason
6/27/16 22:04	6/27/16 22:06	2.1	Loud Vehicle Passby
6/27/16 22:09	6/27/16 22:10	0.9	Loud Vehicle Passby
6/27/16 22:15	6/27/16 22:16	0.9	Loud Vehicle Passby
6/27/16 22:18	6/27/16 22:19	1.1	Loud Vehicle Passby
6/27/16 22:23	6/27/16 22:24	0.6	Loud Vehicle Passby
6/27/16 22:25	6/27/16 22:26	0.6	Loud Vehicle Passby
6/27/16 22:27	6/27/16 22:28	0.9	Loud Vehicle Passby
6/27/16 22:28	6/27/16 22:29	0.9	Loud Vehicle Passby
6/27/16 22:53	6/27/16 22:54	0.6	Loud Vehicle Passby
6/27/16 22:58	6/27/16 22:59	1.1	Loud Vehicle Passby
6/27/16 23:07	6/27/16 23:07	0.6	Loud Vehicle Passby
6/27/16 23:14	6/27/16 23:15	0.9	Loud Vehicle Passby
6/27/16 23:34	6/27/16 23:35	0.6	Loud Vehicle Passby
6/28/16 00:11	6/28/16 00:11	0.9	Loud Vehicle Passby
6/28/16 00:43	6/28/16 00:44	1.6	Loud Vehicle Passby
6/28/16 00:52	6/28/16 00:52	0.9	Loud Vehicle Passby
6/28/16 02:30	6/28/16 02:31	1.1	Loud Vehicle Passby
6/28/16 02:52	6/28/16 02:53	0.9	Loud Vehicle Passby
6/28/16 03:12	6/28/16 03:12	0.9	Loud Vehicle Passby
6/28/16 03:14	6/28/16 03:16	1.9	Loud Vehicle Passby
6/28/16 03:18	6/28/16 03:18	0.1	Loud Vehicle Passby
6/28/16 03:19	6/28/16 03:20	0.6	Loud Vehicle Passby
6/28/16 03:21	6/28/16 03:21	0.9	Loud Vehicle Passby
6/28/16 03:24	6/28/16 03:25	1.4	Train Passby
6/28/16 03:40	6/28/16 03:42	2.4	Train Passby
6/28/16 03:47	6/28/16 03:48	1.1	Loud Vehicle Passby
6/28/16 04:00	6/28/16 04:00	0.9	Loud Vehicle Passby
6/28/16 04:01	6/28/16 04:02	1.1	Loud Vehicle Passby
6/28/16 04:09	6/28/16 04:12	2.6	Loud Vehicle Passby
6/28/16 04:12	6/28/16 04:14	2.4	Loud Vehicle Passby
6/28/16 04:23	6/28/16 04:24	1.1	Loud Vehicle Passby
6/28/16 04:25	6/28/16 04:33	7.9	Loud Vehicle Passby
6/28/16 04:34	6/28/16 07:00	146.4	Vehicles, Morning Chorus
6/28/16 22:06	6/28/16 22:07	0.9	Loud Vehicle Passby
6/28/16 22:13	6/28/16 22:14	1.1	Loud Vehicle Passby
6/28/16 22:17	6/28/16 22:18	0.9	Loud Vehicle Passby
6/28/16 22:33	6/28/16 22:33	0.6	Loud Vehicle Passby
6/28/16 22:40	6/28/16 22:42	1.9	Loud Vehicle Passby
6/28/16 22:56	6/28/16 22:57	0.6	Loud Vehicle Passby



Start Time End Time Duration (min) Reason 6/28/16 23:05 6/28/16 23:06 1.1 Loud Vehicle Passby 6/28/16 23:09 6/28/16 23:01 1.1 Loud Vehicle Passby 6/28/16 23:19 6/28/16 23:20 0.9 Loud Vehicle Passby 6/28/16 23:19 6/28/16 23:22 0.9 Loud Vehicle Passby 6/28/16 23:21 6/28/16 23:33 1.1 Loud Vehicle Passby 6/28/16 23:22 0.9 Loud Vehicle Passby 6/28/16 23:21 6/28/16 23:33 1.1 Loud Vehicle Passby 6/28/16 23:42 6/28/16 23:33 1.1 Loud Vehicle Passby 6/28/16 00:04 6/29/16 00:05 0.9 Loud Vehicle Passby 6/28/16 00:07 6/29/16 00:03 0.9 Loud Vehicle Passby 6/29/16 00:10 6/29/16 00:13 3.4 Train Passby 6/29/16 00:20 0.9 Loud Vehicle Passby 6/29/16 00:46 6/29/16 00:46 6/29/16 00:41 0.9 Loud Vehicle Passby 6/29/16 00:46 6/29/16 00:41 1.4 Loud Vehicle Passby <tr< th=""><th></th><th></th><th></th><th></th></tr<>				
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6/29/16 02:43 6/29/16 02:44 0.9 Loud Vehicle Passby 6/29/16 02:44 6/29/16 02:45 1.1 Loud Vehicle Passby 6/29/16 03:43 6/29/16 03:43 0.1 Loud Vehicle Passby 6/29/16 03:43 6/29/16 03:43 0.6 backup beeper 6/29/16 03:44 6/29/16 03:44 0.1 Backup beeper 6/29/16 04:44 6/29/16 04:05 1.1 Loud Vehicle Passby 6/29/16 04:04 6/29/16 04:05 1.1 Loud Vehicle Passby 6/29/16 04:04 6/29/16 04:05 1.1 Loud Vehicle Passby 6/29/16 04:15 6/29/16 04:17 1.4 Loud Vehicle Passby 6/29/16 04:19 6/29/16 04:20 0.9 Loud Vehicle Passby 6/29/16 04:24 6/29/16 04:25 1.4 Loud Vehicle Passby 6/29/16 04:27 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:33 6/29/16 04:34 0.6 Loud Vehicle Passby 6/29/16 04:34 6/29/16 07:00 145.9 Vehicles, Morning Chorus Total Night #1 189 <t< td=""><td>6/29/16 01:58</td><td>6/29/16 02:01</td><td>2.9</td><td>Train Passby</td></t<>	6/29/16 01:58	6/29/16 02:01	2.9	Train Passby
6/29/16 02:44 6/29/16 02:45 1.1 Loud Vehicle Passby 6/29/16 03:43 6/29/16 03:43 0.1 Loud Vehicle Passby 6/29/16 03:43 6/29/16 03:43 0.6 backup beeper 6/29/16 03:44 6/29/16 03:44 0.1 Backup beeper 6/29/16 04:04 6/29/16 04:05 1.1 Loud Vehicle Passby 6/29/16 04:15 6/29/16 04:05 1.1 Loud Vehicle Passby 6/29/16 04:15 6/29/16 04:17 1.4 Loud Vehicle Passby 6/29/16 04:19 6/29/16 04:20 0.9 Loud Vehicle Passby 6/29/16 04:27 6/29/16 04:25 1.4 Loud Vehicle Passby 6/29/16 04:27 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:33 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:33 6/29/16 04:34 0.6 Loud Vehicle Passby 6/29/16 04:34 6/29/16 07:00 145.9 Vehicles, Morning Chorus	6/29/16 02:01	6/29/16 02:02	0.9	Loud Vehicle Passby
Article Article Article 6/29/16 03:43 6/29/16 03:43 0.1 Loud Vehicle Passby 6/29/16 03:43 6/29/16 03:43 0.6 backup beeper 6/29/16 03:44 6/29/16 03:44 0.1 Backup beeper 6/29/16 04:04 6/29/16 04:05 1.1 Loud Vehicle Passby 6/29/16 04:15 6/29/16 04:05 1.1 Loud Vehicle Passby 6/29/16 04:15 6/29/16 04:17 1.4 Loud Vehicle Passby 6/29/16 04:19 6/29/16 04:20 0.9 Loud Vehicle Passby 6/29/16 04:24 6/29/16 04:25 1.4 Loud Vehicle Passby 6/29/16 04:27 6/29/16 04:28 1.6 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:33 6/29/16 07:00 145.9 Vehicles, Morning Chorus Total Night #1 189 Total Night #2 187	6/29/16 02:43	6/29/16 02:44	0.9	Loud Vehicle Passby
6/29/16 03:43 6/29/16 03:43 0.6 backup beeper 6/29/16 03:44 6/29/16 03:44 0.1 Backup beeper 6/29/16 04:04 6/29/16 04:05 1.1 Loud Vehicle Passby 6/29/16 04:15 6/29/16 04:17 1.4 Loud Vehicle Passby 6/29/16 04:19 6/29/16 04:20 0.9 Loud Vehicle Passby 6/29/16 04:24 6/29/16 04:25 1.4 Loud Vehicle Passby 6/29/16 04:27 6/29/16 04:28 1.6 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:33 6/29/16 04:34 0.6 Loud Vehicle Passby 6/29/16 04:33 6/29/16 07:00 145.9 Vehicles, Morning Chorus Total Night #1 189 Total Night #2 187	6/29/16 02:44	6/29/16 02:45	1.1	Loud Vehicle Passby
6/29/16 03:44 6/29/16 03:44 0.1 Backup beeper 6/29/16 04:04 6/29/16 04:05 1.1 Loud Vehicle Passby 6/29/16 04:15 6/29/16 04:17 1.4 Loud Vehicle Passby 6/29/16 04:19 6/29/16 04:20 0.9 Loud Vehicle Passby 6/29/16 04:24 6/29/16 04:25 1.4 Loud Vehicle Passby 6/29/16 04:27 6/29/16 04:28 1.6 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:33 6/29/16 04:34 0.6 Loud Vehicle Passby 6/29/16 04:34 6/29/16 07:00 145.9 Vehicles, Morning Chorus Total Night #1 189 Total Night #2 187	6/29/16 03:43	6/29/16 03:43	0.1	Loud Vehicle Passby
6/29/16 04:04 6/29/16 04:05 1.1 Loud Vehicle Passby 6/29/16 04:15 6/29/16 04:17 1.4 Loud Vehicle Passby 6/29/16 04:19 6/29/16 04:20 0.9 Loud Vehicle Passby 6/29/16 04:24 6/29/16 04:25 1.4 Loud Vehicle Passby 6/29/16 04:27 6/29/16 04:28 1.6 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:33 6/29/16 04:34 0.6 Loud Vehicle Passby 6/29/16 04:34 6/29/16 07:00 145.9 Vehicles, Morning Chorus Total Night #1 189 Total Night #2 187	6/29/16 03:43	6/29/16 03:43	0.6	backup beeper
6/29/16 04:15 6/29/16 04:17 1.4 Loud Vehicle Passby 6/29/16 04:19 6/29/16 04:20 0.9 Loud Vehicle Passby 6/29/16 04:24 6/29/16 04:25 1.4 Loud Vehicle Passby 6/29/16 04:27 6/29/16 04:28 1.6 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:33 6/29/16 04:34 0.6 Loud Vehicle Passby 6/29/16 04:34 6/29/16 07:00 145.9 Vehicles, Morning Chorus Total Night #1 189 Total Night #2 187	6/29/16 03:44	6/29/16 03:44	0.1	Backup beeper
6/29/16 04:19 6/29/16 04:20 0.9 Loud Vehicle Passby 6/29/16 04:24 6/29/16 04:25 1.4 Loud Vehicle Passby 6/29/16 04:27 6/29/16 04:28 1.6 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:33 6/29/16 04:34 0.6 Loud Vehicle Passby 6/29/16 04:33 6/29/16 07:00 145.9 Vehicles, Morning Chorus Total Night #1 189 Total Night #2 187	6/29/16 04:04	6/29/16 04:05	1.1	Loud Vehicle Passby
6/29/16 04:24 6/29/16 04:25 1.4 Loud Vehicle Passby 6/29/16 04:27 6/29/16 04:28 1.6 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:33 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:33 6/29/16 04:34 0.6 Loud Vehicle Passby 6/29/16 04:34 6/29/16 07:00 145.9 Vehicles, Morning Chorus Total Night #1 189 Total Night #2 187	6/29/16 04:15	6/29/16 04:17	1.4	Loud Vehicle Passby
6/29/16 04:27 6/29/16 04:28 1.6 Loud Vehicle Passby 6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:33 6/29/16 04:34 0.6 Loud Vehicle Passby 6/29/16 04:34 6/29/16 07:00 145.9 Vehicles, Morning Chorus Total Night #1 189 Total Night #2 187	6/29/16 04:19	6/29/16 04:20	0.9	Loud Vehicle Passby
6/29/16 04:31 6/29/16 04:33 1.4 Loud Vehicle Passby 6/29/16 04:33 6/29/16 04:34 0.6 Loud Vehicle Passby 6/29/16 04:34 6/29/16 07:00 145.9 Vehicles, Morning Chorus Total Night #1 189 Total Night #2 187	6/29/16 04:24	6/29/16 04:25	1.4	Loud Vehicle Passby
6/29/16 04:33 6/29/16 04:34 0.6 Loud Vehicle Passby 6/29/16 04:34 6/29/16 07:00 145.9 Vehicles, Morning Chorus Total Night #1 189 Total Night #2 187	6/29/16 04:27	6/29/16 04:28	1.6	Loud Vehicle Passby
6/29/16 04:34 6/29/16 07:00 145.9 Vehicles, Morning Chorus Total Night #1 189 Total Night #2 187	6/29/16 04:31	6/29/16 04:33	1.4	Loud Vehicle Passby
Total Night #1 189 Total Night #2 187	6/29/16 04:33	6/29/16 04:34	0.6	Loud Vehicle Passby
Total Night #2 187	6/29/16 04:34	6/29/16 07:00	145.9	Vehicles, Morning Chorus
		Total Night #1	189	
Total Data 376		Total Night #2	187	
		Total Data	376	

Data Removal Noise Monitoring Location #1 Cont.



Start Time End Time Duration (min) Reason 6/27/16 22:11 6/27/16 22:12 10.3 Train Passby 6/27/16 22:13 6/27/16 23:43 84.3 Several Train Passage 6/28/16 00:19 6/28/16 00:20 1.1 Loud Vehicle Passby 6/28/16 01:42 6/28/16 00:30 1.1 Loud Vehicle Passby 6/28/16 01:43 6/28/16 01:43 2.1 Train Passby 6/28/16 01:43 6/28/16 03:03 0.1 Train Passby 6/28/16 03:41 6/28/16 03:03 0.1 Train Whistle 6/28/16 03:41 6/28/16 03:32 1.1 Train Whistle 6/28/16 03:41 1.3 Train Whistle 6/28/16 03:41 6/28/16 03:42 6/28/16 03:45 0.8 Train Whistle 6/28/16 03:43 6/28/16 03:59 0.8 Train Whistle 6/28/16 04:05 6/28/16 03:50 0.8 Train Whistle 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:07 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07	Data Kemovai Noise Montoring Location #2			
Chronic Construction Construction 6/27/16 22:12 6/27/16 23:37 84.3 Several Train Passages 6/27/16 23:42 6/27/16 23:43 0.8 Train Whistle 6/28/16 01:41 6/28/16 01:34 9.8 Train Passby 6/28/16 01:41 6/28/16 01:43 2.1 Train Passby 6/28/16 01:41 6/28/16 03:03 0.1 Train Passby 6/28/16 03:03 6/28/16 03:03 0.1 Train Whistle 6/28/16 03:31 6/28/16 03:02 1.1 Train Whistle 6/28/16 03:33 6/28/16 03:32 1.1 Train Whistle 6/28/16 03:34 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 6/28/16 03:47 6/28/16 03:48 0.8 Train Whistle 6/28/16 03:47 6/28/16 03:59 0.8 Train Whistle 6/28/16 04:05 0.6 Train Whistle 6/28/16 04:07 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:09 0.6 Train Whi	Start Time	End Time	Duration (min)	Reason
6/27/16 23:42 6/27/16 23:43 0.8 Train Whistle 6/28/16 00:19 6/28/16 00:20 1.1 Loud Vehicle Passby 6/28/16 01:24 6/28/16 01:34 9.8 Train Passby 6/28/16 01:41 6/28/16 01:43 2.1 Train Passby 6/28/16 01:43 6/28/16 03:03 0.1 Train Passby 6/28/16 03:03 6/28/16 03:19 0.8 Train Whistle 6/28/16 03:31 6/28/16 03:32 1.1 Train Whistle 6/28/16 03:39 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:46 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:46 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:47 6/28/16 03:48 0.8 Train Whistle 6/28/16 04:07 6/28/16 03:59 0.8 Train Whistle 6/28/16 04:07 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:07 6/28/16 04:09 0.8 Train Whistle 6/28/16	6/27/16 22:01	6/27/16 22:12	10.3	Train Passby
6/28/16 00:19 6/28/16 01:24 6/28/16 01:34 9.8 Train Passby 6/28/16 01:41 6/28/16 01:43 2.1 Train Passby 6/28/16 01:43 6/28/16 01:43 2.1 Train Passby 6/28/16 01:43 6/28/16 03:03 6/28/16 03:03 0.1 Train Passby 6/28/16 03:03 6/28/16 03:02 0.1 Train Whistle 6/28/16 03:18 6/28/16 03:32 1.1 Train Whistle 6/28/16 03:30 6/28/16 03:42 1.1 Loud Vehicle Passby 6/28/16 03:46 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:47 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:47 6/28/16 03:47 0.8 Train Whistle 6/28/16 04:07 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:08 0.6 Train Whistle 6/28/16 04:07 6/28/16 04:07 6/28/16 04:07 6/28/16 04:07 6/28/16 04:07 6/28/16 04:07 6/28/16 04:07 6/28/16 04:07 6/28/16 04:07 6/28/16 04:07 6/28/16 04:07 <	6/27/16 22:13	6/27/16 23:37	84.3	Several Train Passages
6/28/16 01:24 6/28/16 01:34 9.8 Train Passby 6/28/16 01:43 6/28/16 01:43 2.1 Train Passby 6/28/16 01:43 6/28/16 02:16 33.3 Train Passby 6/28/16 03:03 6/28/16 03:09 0.1 Train Whistle 6/28/16 03:31 6/28/16 03:32 1.1 Train Whistle 6/28/16 03:34 6/28/16 03:41 1.3 Train Whistle 6/28/16 03:46 6/28/16 03:47 1.1 Loud Vehice Passby 6/28/16 03:47 6/28/16 03:48 0.8 Train Whistle 6/28/16 03:47 6/28/16 03:49 0.8 Train Whistle 6/28/16 03:47 6/28/16 03:49 0.8 Train Whistle 6/28/16 04:07 6/28/16 04:05 0.6 Train Whistle 6/28/16 04:07 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:07 6/28/16 04:05 0.6 Train Whistle 6/28/16 04:07 6/28/16 04:05 1.6 Excessive Bird Noise 6/28/16 04:50 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16 04:	6/27/16 23:42	6/27/16 23:43	0.8	Train Whistle
6/28/16 01:41 6/28/16 01:43 2.1 Train Passby 6/28/16 01:43 6/28/16 02:16 33.3 Train Passby 6/28/16 03:03 6/28/16 03:03 0.1 Train Whistle 6/28/16 03:18 6/28/16 03:32 1.1 Train Whistle 6/28/16 03:39 6/28/16 03:41 1.3 Train Whistle 6/28/16 03:46 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:46 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:47 6/28/16 03:48 0.8 Train Whistle 6/28/16 04:37 6/28/16 03:49 0.8 Train Whistle 6/28/16 04:07 6/28/16 04:03 0.6 Train Whistle 6/28/16 04:07 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:07 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:07 6/28/16 04:52 2.5.3 Train Whistle 6/28/16 04:27 6/28/16 04:59 1.6 Excessive Bird Noise 6/28/16 05:05 2.6 Train Whistle 6/28/16 05:05 6/28/16	6/28/16 00:19	6/28/16 00:20	1.1	Loud Vehicle Passby
6/28/16 01/43 6/28/16 02:16 03:3.3 Train Passby 6/28/16 03:03 0.1 Train Whistle 6/28/16 03:03 0.1 Train Whistle 6/28/16 03:13 6/28/16 03:32 1.1 Train Whistle 6/28/16 03:34 1.3 Train Whistle 6/28/16 03:41 1.3 Train Whistle 6/28/16 03:46 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:46 6/28/16 03:48 0.8 Train Whistle 6/28/16 04:05 6/28/16 03:59 0.8 Train Whistle 6/28/16 04:05 6/28/16 04:05 1/28/16 0.6 Train Whistle 6/28/16 04:05 6/28/16 04:05 1.6 Train Whistle 0/28/16 0/38 Train Whistle 6/28/16 04:05 1.6 Excessive Bird Noise 0/28/16 0/38 0/28/16 0/38 0/28/16 0/38 0/28/16 0/38 0/28/16 <td>6/28/16 01:24</td> <td>6/28/16 01:34</td> <td>9.8</td> <td>Train Passby</td>	6/28/16 01:24	6/28/16 01:34	9.8	Train Passby
6/28/16 03:03 6/28/16 03:03 0.1 Train Whistle 6/28/16 03:18 6/28/16 03:32 1.1 Train Whistle 6/28/16 03:31 6/28/16 03:32 1.1 Train Whistle 6/28/16 03:39 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:46 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:47 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:47 6/28/16 03:48 0.8 Train Whistle 6/28/16 04:05 6/28/16 04:06 0.6 Train Whistle 6/28/16 04:07 6/12 0.1 Train Whistle 6/28/16 04:07 6/12 0.6 Train Whistle 6/28/16 04:07 6/28/16 04:08 0.6 Train Whistle 6/28/16 04:07 6/28/16 04:08 0.6 Train Whistle 6/28/16 04:51 1.6 Excessive Bird Noise 6/28/16 04:52 6/28/16 04:52 1.6 Excessive Bird Noise 6/28/16 04:55 6/28/16 04:54 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16	6/28/16 01:41	6/28/16 01:43	2.1	Train Passby
6/28/16 03:18 6/28/16 03:32 1.1 Train Whistle 6/28/16 03:31 6/28/16 03:32 1.1 Train Whistle 6/28/16 03:39 6/28/16 03:41 1.3 Train Whistle 6/28/16 03:46 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:58 6/28/16 03:59 0.8 Train Whistle 6/28/16 04:05 6/28/16 04:06 0.6 Train Whistle 6/28/16 04:07 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:07 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:07 6/28/16 04:11 0.8 Train Whistle 6/28/16 04:27 6/28/16 04:52 2.5.3 Train Whistle 6/28/16 04:27 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16 04:27 6/28/16 04:59 2.6 Train Whistle 6/28/16 04:50 2.6 Train Whistle 6/28/16 05:05 6/28/16 05:06 6/28/16 07:02 108.6 Heavy Traffic, Morning Chorus	6/28/16 01:43	6/28/16 02:16	33.3	Train Passby
6/28/16 03:31 6/28/16 03:32 1.1 Train Whistle 6/28/16 03:39 6/28/16 03:41 1.3 Train Whistle 6/28/16 03:46 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:47 6/28/16 03:48 0.8 Train Whistle 6/28/16 04:05 6/28/16 04:06 0.6 Train Whistle 6/28/16 04:07 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:08 0.6 Train Whistle 6/28/16 04:07 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:09 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:09 6/28/16 04:11 0.8 Train Whistle 6/28/16 04:10 6/28/16 04:52 25.3 Train Whistle 6/28/16 04:54 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16 04:56 6/28/16 04:59 2.6 Train Whistle 6/28/16 05:03 6/28/16 05:05 2.6 Train Whistle 6/28/16 05:03 6/28/16 07:02 108.6 Heavy Traffic, Morning Chorus	6/28/16 03:03	6/28/16 03:03	0.1	Train Whistle
6/28/16 03:39 6/28/16 03:41 1.3 Train Whistle 6/28/16 03:46 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:47 6/28/16 03:48 0.8 Train Whistle 6/28/16 03:58 6/28/16 03:59 0.8 Train Whistle 6/28/16 04:05 6/28/16 04:06 0.6 Train Whistle 6/28/16 04:07 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:09 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:10 6/28/16 04:11 0.8 Train Whistle 6/28/16 04:27 6/28/16 04:52 25.3 Train Whistle 6/28/16 04:54 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16 04:54 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16 05:03 6/28/16 05:05 2.6 Train Whistle 6/28/16 05:03 6/28/16 05:05 1.6 Excessive Bird Noise 6/28/16 05:03 6/28/16 05:03 7.1 Loud Vehicle Passby	6/28/16 03:18	6/28/16 03:19	0.8	Train Whistle
6/28/16 03:46 6/28/16 03:47 1.1 Loud Vehicle Passby 6/28/16 03:47 6/28/16 03:48 0.8 Train Whistle 6/28/16 03:58 6/28/16 03:59 0.8 Train Whistle 6/28/16 04:05 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:09 0.6 Train Whistle 6/28/16 04:09 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:09 6/28/16 04:10 0.8 Train Whistle 6/28/16 04:10 6/28/16 04:52 25.3 Train Whistle 6/28/16 04:54 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16 04:56 6/28/16 05:05 2.6 Train Whistle 6/28/16 05:03 6/28/16 05:13 7.1 Loud Vehicle Passby 6/28/16 05:13 6/28/16 07:02 108.6 Heavy Traffic, Morning Chorus 6/28/16 22:03 6/28/16 22:14 4.1 Train Passby 6/28/16 22:19 6/28/16 22:19 1.1 Train Passby	6/28/16 03:31	6/28/16 03:32	1.1	Train Whistle
Action of the second	6/28/16 03:39	6/28/16 03:41	1.3	Train Whistle
6/28/16 03:58 6/28/16 03:59 0.8 Train Whistle 6/28/16 04:05 6/28/16 04:06 0.6 Train Whistle 6/28/16 04:07 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:09 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:10 6/28/16 04:52 25.3 Train Whistle 6/28/16 04:54 6/28/16 04:52 25.3 Train Whistle 6/28/16 04:54 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16 05:03 6/28/16 05:05 2.6 Train Whistle 6/28/16 05:03 6/28/16 05:13 7.1 Loud Vehicle Passby 6/28/16 05:13 6/28/16 05:13 7.1 Loud Vehicle Passby 6/28/16 22:03 0.8 Train Whistle 6/28/16 22:10 6/28/16 22:19 1.1 Train Whistle 6/28/16 22:19 1.1 Train Whistle 6/28/16 22:34 3.6 6/28/16 22:29 <td>6/28/16 03:46</td> <td>6/28/16 03:47</td> <td>1.1</td> <td>Loud Vehicle Passby</td>	6/28/16 03:46	6/28/16 03:47	1.1	Loud Vehicle Passby
6/28/16 04:05 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:08 0.6 Train Whistle 6/28/16 04:09 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:10 6/28/16 04:11 0.8 Train Whistle 6/28/16 04:27 6/28/16 04:52 25.3 Train Passby 6/28/16 04:54 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16 04:54 6/28/16 04:59 2.6 Excessive Bird Noise 6/28/16 05:03 6/28/16 05:13 7.1 Loud Vehicle Passby 6/28/16 05:13 6/28/16 05:13 7.1 Loud Vehicle Passby 6/28/16 05:13 6/28/16 07:02 108.6 Heavy Traffic, Morning Chorus 6/28/16 05:13 6/28/16 02:03 0.8 Train Whistle 6/28/16 22:03 0.8 Train Whistle 6/28/16 22:14 4.1 Train Whistle 6/28/16 22:19 1.1 Train Whistle 6/28/16 22:29 0.6 Monitor Check </td <td>6/28/16 03:47</td> <td>6/28/16 03:48</td> <td>0.8</td> <td>Train Whistle</td>	6/28/16 03:47	6/28/16 03:48	0.8	Train Whistle
6/28/16 04:07 6/28/16 04:07 0.1 Train Whistle 6/28/16 04:07 6/28/16 04:08 0.6 Train Whistle 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:10 6/28/16 04:11 0.8 Train Whistle 6/28/16 04:10 6/28/16 04:52 25.3 Train Whistle 6/28/16 04:54 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16 04:56 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16 04:56 6/28/16 04:59 2.6 Excessive Bird Noise 6/28/16 05:03 6/28/16 05:05 2.6 Train Whistle 6/28/16 02:03 0.8 Train Whistle 6/28/16 22:03 6/28/16 02:03 0.8 <td>6/28/16 03:58</td> <td>6/28/16 03:59</td> <td>0.8</td> <td>Train Whistle</td>	6/28/16 03:58	6/28/16 03:59	0.8	Train Whistle
6/28/16 04:07 6/28/16 04:08 0.6 Train Whistle 6/28/16 04:09 6/28/16 04:09 0.8 Train Whistle 6/28/16 04:10 6/28/16 04:11 0.8 Train Whistle 6/28/16 04:27 6/28/16 04:52 25.3 Train Passby 6/28/16 04:54 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16 04:56 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16 04:56 6/28/16 05:05 2.6 Train Whistle 6/28/16 05:03 6/28/16 05:05 2.6 Train Vhistle 6/28/16 05:04 6/28/16 05:05 2.6 Train Whistle 6/28/16 05:03 6/28/16 05:05 2.6 Train Whistle 6/28/16 05:03 6/28/16 05:05 2.6 Train Whistle 6/28/16 05:03 6/28/16 05:05 0.8 Train Whistle 6/28/16 05:03 6/28/16 05:02 108.6 Heavy Traffic, Morning Chorus 6/28/16 22:03 0.8 Train Whistle 6/28/16 22:03 6/28/16 22:10 1.1 Train Whistle 6/28/16 22:14	6/28/16 04:05	6/28/16 04:06	0.6	Train Whistle
Area of the second se	6/28/16 04:07	6/28/16 04:07	0.1	Train Whistle
6/28/16 04:106/28/16 04:110.8Train Whistle6/28/16 04:276/28/16 04:5225.3Train Passby6/28/16 04:546/28/16 04:551.6Excessive Bird Noise6/28/16 04:566/28/16 04:592.6Excessive Bird Noise6/28/16 05:036/28/16 05:052.6Train Whistle6/28/16 05:066/28/16 05:137.1Loud Vehicle Passby6/28/16 05:136/28/16 07:02108.6Heavy Traffic, Morning Chorus6/28/16 22:036/28/16 22:030.8Train Whistle6/28/16 22:106/28/16 22:144.1Train Passby6/28/16 22:191.1Train Whistle6/28/16 22:290.6Monitor Check6/28/16 22:316/28/16 22:343.66/28/16 22:343.6Train Passby6/28/16 22:456/28/16 22:5712.16/28/16 22:596/28/16 22:5712.1Train Passby6/28/16 23:036/29/16 00:0966.6Train Passby6/29/16 01:130.86/29/16 01:130.86/29/16 01:130.86/29/16 01:130.86/29/16 01:144.36/29/16 02:066/29/16 01:136/29/16 02:070.86/29/16 02:066/29/16 02:076/29/16 02:066/29/16 02:076/29/16 02:053.66/29/16 02:066/29/16 02:076/29/16 02:056/29/16 02:086/29/16 02:056/29/16 02:086/29/16 02:056/29/16 02:086/29/16 02:05 <td< td=""><td>6/28/16 04:07</td><td>6/28/16 04:08</td><td>0.6</td><td>Train Whistle</td></td<>	6/28/16 04:07	6/28/16 04:08	0.6	Train Whistle
6/28/16 04:27 6/28/16 04:52 25.3 Train Passby 6/28/16 04:54 6/28/16 04:55 1.6 Excessive Bird Noise 6/28/16 04:56 6/28/16 04:59 2.6 Excessive Bird Noise 6/28/16 05:03 6/28/16 05:05 2.6 Train Whistle 6/28/16 05:06 6/28/16 05:13 7.1 Loud Vehicle Passby 6/28/16 05:13 6/28/16 07:02 108.6 Heavy Traffic, Morning Chorus 6/28/16 22:03 6/28/16 22:03 0.8 Train Whistle 6/28/16 22:10 6/28/16 22:14 4.1 Train Passby 6/28/16 22:18 6/28/16 22:19 1.1 Train Whistle 6/28/16 22:29 6/28/16 22:34 3.6 Train Passby 6/28/16 22:31 6/28/16 22:57 12.1 Train Passby 6/28/16 22:45 6/28/16 22:57 12.1 Train Passby 6/28/16 22:59 6/28/16 22:57 12.1 Train Passby 6/28/16 22:03 0.8 Aircraft Flyover 6/28/16 23:03 6/29/16 01:13 0.8 Train Passby 6/29/16 01:13	6/28/16 04:09	6/28/16 04:09	0.8	Train Whistle
6/28/16 04:546/28/16 04:551.6Excessive Bird Noise6/28/16 04:566/28/16 04:592.6Excessive Bird Noise6/28/16 05:036/28/16 05:052.6Train Whistle6/28/16 05:036/28/16 05:037.1Loud Vehicle Passby6/28/16 05:136/28/16 07:02108.6Heavy Traffic, Morning Chorus6/28/16 22:036/28/16 22:030.8Train Whistle6/28/16 22:106/28/16 22:144.1Train Passby6/28/16 22:186/28/16 22:191.1Train Whistle6/28/16 22:296/28/16 22:290.6Monitor Check6/28/16 22:316/28/16 22:343.6Train Passby6/28/16 22:596/28/16 22:5712.1Train Passby6/28/16 22:596/28/16 23:000.8Aircraft Flyover6/28/16 23:036/29/16 00:0966.6Train Passby6/28/16 23:036/29/16 00:0966.6Train Passby6/28/16 23:036/29/16 00:0966.6Train Passby6/28/16 23:036/29/16 00:0966.6Train Passby6/28/16 23:036/29/16 00:0966.6Train Passby6/29/16 01:130.8Train Whistle6/29/16 02:066/29/16 01:130.8Train Passby6/29/16 02:066/29/16 02:070.8Train Passby6/29/16 02:106/29/16 02:144.3Train Passby6/29/16 02:356/29/16 02:382.8Train Passby6/29/16 02:356/29/16 02:382.8Train Passby6/29/16 02:39 <td>6/28/16 04:10</td> <td>6/28/16 04:11</td> <td>0.8</td> <td>Train Whistle</td>	6/28/16 04:10	6/28/16 04:11	0.8	Train Whistle
6/28/16 04:566/28/16 04:592.6Excessive Bird Noise6/28/16 05:036/28/16 05:052.6Train Whistle6/28/16 05:066/28/16 05:137.1Loud Vehicle Passby6/28/16 05:136/28/16 07:02108.6Heavy Traffic, Morning Chorus6/28/16 22:036/28/16 22:030.8Train Whistle6/28/16 22:106/28/16 22:144.1Train Passby6/28/16 22:186/28/16 22:191.1Train Whistle6/28/16 22:296/28/16 22:290.6Monitor Check6/28/16 22:316/28/16 22:343.6Train Passby6/28/16 22:456/28/16 22:5712.1Train Passby6/28/16 22:596/28/16 23:000.8Aircraft Flyover6/28/16 23:036/29/16 00:0966.6Train Passby6/29/16 01:130.8Train Passby6/29/16 01:146/29/16 01:503.6Train Passby6/29/16 01:200.8Train Passby6/29/16 02:066/29/16 02:070.8Train Passby6/29/16 02:066/29/16 02:070.8Train Passby6/29/16 02:056/29/16 02:382.8Train Passby6/29/16 02:356/29/16 02:382.8Train Passby6/29/16 02:396/29/16 02:400.8Train Passby	6/28/16 04:27	6/28/16 04:52	25.3	Train Passby
6/28/16 05:03 6/28/16 05:05 2.6 Train Whistle 6/28/16 05:06 6/28/16 05:13 7.1 Loud Vehicle Passby 6/28/16 05:13 6/28/16 07:02 108.6 Heavy Traffic, Morning Chorus 6/28/16 22:03 6/28/16 22:03 0.8 Train Whistle 6/28/16 22:10 6/28/16 22:14 4.1 Train Passby 6/28/16 22:10 6/28/16 22:19 1.1 Train Whistle 6/28/16 22:29 6/28/16 22:29 0.6 Monitor Check 6/28/16 22:31 6/28/16 22:34 3.6 Train Passby 6/28/16 22:31 6/28/16 22:57 12.1 Train Passby 6/28/16 22:45 6/28/16 22:57 12.1 Train Passby 6/28/16 22:59 6/28/16 23:00 0.8 Aircraft Flyover 6/28/16 23:03 6/29/16 00:09 66.6 Train Passby 6/29/16 01:13 0.8 Train Passby 6/29/16 01:13 0.8 Train Passby 6/29/16 01:46 6/29/16 02:07 0.8 Train Whistle 6/29/16 02:06 6/29/16 02:07 0.8 </td <td>6/28/16 04:54</td> <td>6/28/16 04:55</td> <td>1.6</td> <td>Excessive Bird Noise</td>	6/28/16 04:54	6/28/16 04:55	1.6	Excessive Bird Noise
6/28/16 05:066/28/16 05:137.1Loud Vehicle Passby6/28/16 05:136/28/16 07:02108.6Heavy Traffic, Morning Chorus6/28/16 22:036/28/16 22:030.8Train Whistle6/28/16 22:106/28/16 22:144.1Train Passby6/28/16 22:186/28/16 22:191.1Train Whistle6/28/16 22:296/28/16 22:290.6Monitor Check6/28/16 22:316/28/16 22:343.6Train Passby6/28/16 22:456/28/16 22:5712.1Train Passby6/28/16 22:596/28/16 23:000.8Aircraft Flyover6/28/16 23:036/29/16 00:0966.6Train Passby6/29/16 01:130.8Train Whistle6/29/16 01:146/29/16 01:503.6Train Passby6/29/16 01:200.8Train Passby6/29/16 02:066/29/16 02:070.8Train Passby6/29/16 02:082.8Train Passby6/29/16 02:356/29/16 02:382.8Train Passby6/29/16 02:396/29/16 02:300.8Train Passby	6/28/16 04:56	6/28/16 04:59	2.6	Excessive Bird Noise
6/28/16 05:136/28/16 07:02108.6Heavy Traffic, Morning Chorus6/28/16 22:036/28/16 22:030.8Train Whistle6/28/16 22:106/28/16 22:144.1Train Passby6/28/16 22:186/28/16 22:191.1Train Whistle6/28/16 22:296/28/16 22:290.6Monitor Check6/28/16 22:316/28/16 22:343.6Train Passby6/28/16 22:456/28/16 22:5712.1Train Passby6/28/16 22:596/28/16 23:000.8Aircraft Flyover6/28/16 23:036/29/16 00:0966.6Train Passby6/29/16 01:130.8Train Passby6/29/16 02:066/29/16 01:503.6Train Passby6/29/16 02:066/29/16 02:070.8Train Passby6/29/16 02:066/29/16 02:070.8Train Passby6/29/16 02:106/29/16 02:144.3Train Passby6/29/16 02:356/29/16 02:382.8Train Passby6/29/16 02:396/29/16 02:340.8Train Passby	6/28/16 05:03	6/28/16 05:05	2.6	Train Whistle
6/28/16 22:036/28/16 22:030.8Train Whistle6/28/16 22:106/28/16 22:144.1Train Passby6/28/16 22:186/28/16 22:191.1Train Whistle6/28/16 22:296/28/16 22:290.6Monitor Check6/28/16 22:316/28/16 22:343.6Train Passby6/28/16 22:456/28/16 22:5712.1Train Passby6/28/16 22:596/28/16 23:000.8Aircraft Flyover6/28/16 23:036/29/16 00:0966.6Train Passby6/29/16 01:130.8Train Whistle6/29/16 01:146/29/16 01:503.6Train Passby6/29/16 02:066/29/16 02:070.8Train Passby6/29/16 02:106/29/16 02:070.8Train Passby6/29/16 02:056/29/16 02:070.8Train Passby6/29/16 02:066/29/16 02:070.8Train Passby6/29/16 02:056/29/16 02:070.8Train Passby6/29/16 02:056/29/16 02:070.8Train Passby6/29/16 02:056/29/16 02:070.8Train Passby6/29/16 02:056/29/16 02:082.8Train Passby6/29/16 02:356/29/16 02:382.8Train Passby6/29/16 02:396/29/16 02:400.8Train Passby	6/28/16 05:06	6/28/16 05:13	7.1	Loud Vehicle Passby
6/28/16 22:106/28/16 22:144.1Train Passby6/28/16 22:186/28/16 22:191.1Train Whistle6/28/16 22:296/28/16 22:290.6Monitor Check6/28/16 22:316/28/16 22:343.6Train Passby6/28/16 22:456/28/16 22:5712.1Train Passby6/28/16 22:596/28/16 23:000.8Aircraft Flyover6/28/16 23:036/29/16 00:0966.6Train Passby6/29/16 01:130.8Train Passby6/29/16 01:146/29/16 01:503.6Train Passby6/29/16 02:066/29/16 02:070.8Train Passby6/29/16 02:106/29/16 02:144.3Train Passby6/29/16 02:356/29/16 02:382.8Train Passby6/29/16 02:396/29/16 02:400.8Train Passby	6/28/16 05:13	6/28/16 07:02	108.6	Heavy Traffic, Morning Chorus
6/28/16 22:186/28/16 22:191.1Train Whistle6/28/16 22:296/28/16 22:290.6Monitor Check6/28/16 22:316/28/16 22:343.6Train Passby6/28/16 22:456/28/16 22:5712.1Train Passby6/28/16 22:596/28/16 23:000.8Aircraft Flyover6/28/16 23:036/29/16 00:0966.6Train Passby6/29/16 01:136/29/16 01:130.8Train Passby6/29/16 01:136/29/16 01:503.6Train Passby6/29/16 01:466/29/16 01:503.6Train Passby6/29/16 02:070.8Train Passby6/29/16 02:106/29/16 02:144.3Train Passby6/29/16 02:356/29/16 02:382.8Train Passby6/29/16 02:396/29/16 02:400.8Train Passby	6/28/16 22:03	6/28/16 22:03	0.8	Train Whistle
6/28/16 22:296/28/16 22:290.6Monitor Check6/28/16 22:316/28/16 22:343.6Train Passby6/28/16 22:456/28/16 22:5712.1Train Passby6/28/16 22:596/28/16 23:000.8Aircraft Flyover6/28/16 23:036/29/16 00:0966.6Train Passby6/29/16 01:136/29/16 01:130.8Train Whistle6/29/16 01:146/29/16 01:503.6Train Passby6/29/16 02:066/29/16 02:070.8Train Whistle6/29/16 02:106/29/16 02:144.3Train Passby6/29/16 02:356/29/16 02:382.8Train Passby6/29/16 02:396/29/16 02:400.8Train Passby	6/28/16 22:10	6/28/16 22:14	4.1	Train Passby
6/28/16 22:316/28/16 22:343.6Train Passby6/28/16 22:456/28/16 22:5712.1Train Passby6/28/16 22:596/28/16 23:000.8Aircraft Flyover6/28/16 23:036/29/16 00:0966.6Train Passby6/29/16 01:136/29/16 01:130.8Train Whistle6/29/16 01:466/29/16 01:503.6Train Passby6/29/16 02:066/29/16 02:070.8Train Whistle6/29/16 02:106/29/16 02:144.3Train Passby6/29/16 02:356/29/16 02:382.8Train Passby6/29/16 02:396/29/16 02:400.8Train Passby	6/28/16 22:18	6/28/16 22:19	1.1	Train Whistle
6/28/16 22:45 6/28/16 22:57 12.1 Train Passby 6/28/16 22:59 6/28/16 23:00 0.8 Aircraft Flyover 6/28/16 23:03 6/29/16 00:09 66.6 Train Passby 6/29/16 01:13 6/29/16 01:13 0.8 Train Whistle 6/29/16 01:46 6/29/16 01:50 3.6 Train Passby 6/29/16 02:06 6/29/16 02:07 0.8 Train Whistle 6/29/16 02:10 6/29/16 02:14 4.3 Train Passby 6/29/16 02:35 6/29/16 02:38 2.8 Train Passby 6/29/16 02:39 6/29/16 02:40 0.8 Train Passby	6/28/16 22:29	6/28/16 22:29	0.6	Monitor Check
6/28/16 22:59 6/28/16 23:00 0.8 Aircraft Flyover 6/28/16 23:03 6/29/16 00:09 66.6 Train Passby 6/29/16 01:13 6/29/16 01:13 0.8 Train Whistle 6/29/16 01:46 6/29/16 01:50 3.6 Train Passby 6/29/16 02:06 6/29/16 02:07 0.8 Train Passby 6/29/16 02:10 6/29/16 02:14 4.3 Train Passby 6/29/16 02:35 6/29/16 02:38 2.8 Train Passby 6/29/16 02:39 6/29/16 02:40 0.8 Train Passby	6/28/16 22:31	6/28/16 22:34	3.6	Train Passby
6/28/16 23:03 6/29/16 00:09 66.6 Train Passby 6/29/16 01:13 6/29/16 01:13 0.8 Train Whistle 6/29/16 01:46 6/29/16 01:50 3.6 Train Passby 6/29/16 02:06 6/29/16 02:07 0.8 Train Whistle 6/29/16 02:06 6/29/16 02:07 0.8 Train Passby 6/29/16 02:10 6/29/16 02:14 4.3 Train Passby 6/29/16 02:35 6/29/16 02:38 2.8 Train Passby 6/29/16 02:39 6/29/16 02:40 0.8 Train Passby	6/28/16 22:45	6/28/16 22:57	12.1	Train Passby
6/29/16 01:13 6/29/16 01:13 0.8 Train Whistle 6/29/16 01:46 6/29/16 01:50 3.6 Train Passby 6/29/16 02:06 6/29/16 02:07 0.8 Train Whistle 6/29/16 02:10 6/29/16 02:14 4.3 Train Passby 6/29/16 02:35 6/29/16 02:38 2.8 Train Passby 6/29/16 02:39 6/29/16 02:40 0.8 Train Passby	6/28/16 22:59	6/28/16 23:00	0.8	Aircraft Flyover
6/29/16 01:46 6/29/16 01:50 3.6 Train Passby 6/29/16 02:06 6/29/16 02:07 0.8 Train Whistle 6/29/16 02:10 6/29/16 02:14 4.3 Train Passby 6/29/16 02:35 6/29/16 02:38 2.8 Train Passby 6/29/16 02:39 6/29/16 02:40 0.8 Train Passby	6/28/16 23:03	6/29/16 00:09	66.6	Train Passby
6/29/16 02:06 6/29/16 02:07 0.8 Train Whistle 6/29/16 02:10 6/29/16 02:14 4.3 Train Passby 6/29/16 02:35 6/29/16 02:38 2.8 Train Passby 6/29/16 02:39 6/29/16 02:40 0.8 Train Passby	6/29/16 01:13	6/29/16 01:13	0.8	Train Whistle
6/29/16 02:10 6/29/16 02:14 4.3 Train Passby 6/29/16 02:35 6/29/16 02:38 2.8 Train Passby 6/29/16 02:39 6/29/16 02:40 0.8 Train Passby	6/29/16 01:46	6/29/16 01:50	3.6	Train Passby
6/29/16 02:35 6/29/16 02:38 2.8 Train Passby 6/29/16 02:39 6/29/16 02:40 0.8 Train Passby	6/29/16 02:06	6/29/16 02:07	0.8	Train Whistle
6/29/16 02:39 6/29/16 02:40 0.8 Train Passby	6/29/16 02:10	6/29/16 02:14	4.3	Train Passby
	6/29/16 02:35	6/29/16 02:38	2.8	Train Passby
6/29/16 02:42 6/29/16 02:43 1.3 Train Passby	6/29/16 02:39	6/29/16 02:40	0.8	Train Passby
	6/29/16 02:42	6/29/16 02:43	1.3	Train Passby

Data Removal Noise Monitoring Location #2



Start Time	End Time	Duration (min)	Reason
6/29/16 03:13	6/29/16 03:13	0.6	Train Whistle
6/29/16 03:38	6/29/16 03:41	3.3	Train Passby
6/29/16 03:46	6/29/16 04:12	26.1	Train Passby
6/29/16 04:16	6/29/16 04:17	1.1	Train Whistle
6/29/16 04:20	6/29/16 04:20	0.8	Train Whistle
6/29/16 04:26	6/29/16 04:26	0.8	Train Whistle
6/29/16 04:31	6/29/16 04:33	2.1	Train Whistle
6/29/16 04:40	6/29/16 04:42	2.3	Train Whistle
6/29/16 04:47	6/29/16 04:48	1.8	Loud Vehicle Passby
6/29/16 04:49	6/29/16 04:49	0.1	Loud Vehicle Passby
6/29/16 04:49	6/29/16 04:50	0.6	Loud Vehicle Passby
6/29/16 04:51	6/29/16 04:51	0.1	Train passages and whistles
6/29/16 04:51	6/29/16 04:59	8.3	Train Passby
6/29/16 05:02	6/29/16 05:03	0.8	Train Passby
6/29/16 05:03	6/29/16 07:00	116.3	Heavy Traffic, Trains, Morning Chorus
	Total Night #1	298	
	Total Night #2	271	
	Total Data	569	

Data Removal Noise Monitoring Location #2 Cont.



			mtoring Location #5
Start Time	End Time	Duration (min)	Reason
8/02/16 22:07	8/02/16 22:08	1.9	Monitor Check
8/02/16 22:19	8/02/16 22:19	0.4	On-site
8/02/16 22:29	8/02/16 22:29	0.1	On-site
8/02/16 22:29	8/02/16 22:31	1.6	On-site
8/02/16 22:42	8/02/16 22:44	1.6	On-site (Beeping)
8/02/16 22:54	8/02/16 22:55	0.6	Wheel Squeal
8/02/16 23:14	8/02/16 23:22	8.1	Train Passby
8/02/16 23:36	8/02/16 23:37	1.6	Train Passby
8/02/16 23:51	8/02/16 23:52	1.4	Train Passby
8/03/16 00:17	8/03/16 00:24	6.9	Train Passby
8/03/16 00:44	8/03/16 00:45	0.6	Loud Vehicle Passby
8/03/16 01:04	8/03/16 01:04	0.9	Loud Vehicle Passby
8/03/16 02:25	8/03/16 02:28	3.1	Train Whistle
8/03/16 02:34	8/03/16 02:35	1.1	Train Whistle
8/03/16 03:18	8/03/16 03:19	0.9	Train Whistle
8/03/16 03:24	8/03/16 03:24	0.9	Train Whistle
8/03/16 04:23	8/03/16 04:26	3.6	Train Passby
8/03/16 04:31	8/03/16 04:33	1.6	Loud Vehicle Passby
8/03/16 04:48	8/03/16 04:49	1.1	Loud Vehicle Passby
8/03/16 04:50	8/03/16 04:51	1.6	Loud Vehicle Passby
8/03/16 04:57	8/03/16 04:58	1.9	Loud Vehicle Passby
8/03/16 05:05	8/03/16 05:06	1.6	Train Passby
8/03/16 05:08	8/03/16 05:09	1.1	Loud Vehicle Passby
8/03/16 05:11	8/03/16 05:12	1.1	Loud Vehicle Passby
8/03/16 05:18	8/03/16 05:20	2.1	Loud Vehicle Passby
8/03/16 05:21	8/03/16 05:23	2.4	Loud Vehicle Passby
8/03/16 05:24	8/03/16 05:27	3.4	Loud Vehicle Passby
8/03/16 05:30	8/03/16 05:30	0.6	Loud Vehicle Passby
8/03/16 05:30	8/03/16 05:32	1.9	Loud Vehicle Passby
8/03/16 05:33	8/03/16 05:33	0.9	Loud Vehicle Passby
8/03/16 05:34	8/03/16 05:35	0.6	Loud Vehicle Passby
8/03/16 05:36	8/03/16 05:38	2.4	Loud Vehicle Passby
8/03/16 05:39	8/03/16 05:47	8.1	Loud Vehicle Passby
8/03/16 05:48	8/03/16 05:59	11.9	Loud Vehicle Passby
8/03/16 06:00	8/03/16 06:03	2.9	Loud Vehicle Passby
8/03/16 06:03	8/03/16 06:05	2.1	Loud Vehicle Passby
8/03/16 06:06	8/03/16 06:09	3.1	Loud Vehicle Passby
8/03/16 06:10	8/03/16 06:21	11.6	Loud Vehicle Passby
8/03/16 06:22	8/03/16 06:26	4.9	Loud Vehicle Passby
8/03/16 06:27	8/03/16 07:00	32.9	Loud Vehicle Passby

Data Removal Noise Monitoring Location #3



Start Time	End Time	Duration (min)	Reason
8/03/16 21:43	8/03/16 21:44	0.9	Train Passby
8/03/16 21:45	8/03/16 21:46	1.1	Train Passby
8/03/16 21:47	8/03/16 21:48	1.1	Loud Vehicle Passby
8/03/16 21:52	8/03/16 21:54	1.6	Loud Vehicle Passby
8/03/16 22:02	8/03/16 22:03	0.9	Loud Vehicle Passby
8/03/16 22:05	8/03/16 22:23	17.4	Train Passby
8/03/16 22:25	8/03/16 22:25	0.6	Loud Vehicle Passby
8/03/16 22:31	8/03/16 22:31	0.9	Loud Vehicle Passby
8/03/16 22:34	8/03/16 22:34	0.6	Train Whistle
8/03/16 22:39	8/03/16 22:40	0.9	Loud Vehicle Passby
8/03/16 22:42	8/03/16 22:43	1.1	Loud Vehicle Passby
8/03/16 23:08	8/03/16 23:09	0.9	Loud Vehicle Passby
8/03/16 23:28	8/03/16 23:29	0.6	Loud Vehicle Passby
8/03/16 23:37	8/03/16 23:38	1.1	Loud Vehicle Passby
8/03/16 23:49	8/03/16 23:49	0.6	Train Whistle
8/03/16 23:58	8/04/16 00:02	4.1	Train Passby
8/04/16 00:07	8/04/16 00:08	1.1	Loud Vehicle Passby
8/04/16 00:22	8/04/16 00:22	0.6	Train Passby
8/04/16 00:28	8/04/16 00:30	1.6	Train Passby
8/04/16 00:47	8/04/16 00:49	2.4	Train Passby
8/04/16 00:50	8/04/16 00:54	4.1	Train Passby
8/04/16 00:57	8/04/16 00:58	1.1	Train Whistle
8/04/16 01:03	8/04/16 01:08	4.6	Sirens
8/04/16 01:40	8/04/16 01:41	0.6	Loud Vehicle Passby
8/04/16 02:18	8/04/16 02:19	0.9	Loud Vehicle Passby
8/04/16 02:39	8/04/16 02:42	2.4	On-site equipment
8/04/16 03:53	8/04/16 03:56	3.6	Train Passby
8/04/16 04:03	8/04/16 04:06	3.4	Train Passby
8/04/16 04:41	8/04/16 04:41	0.9	Loud Vehicle Passby
8/04/16 04:43	8/04/16 04:44	1.4	On-site equipment
8/04/16 04:50	8/04/16 04:59	9.1	Loud Vehicle Passby
8/04/16 05:06	8/04/16 05:11	5.1	Loud Vehicle Passby
8/04/16 05:16	8/04/16 07:00	103.6	Heavy Traffic, Morning Chorus
	Total Night #1	137	
	Total Night #2	250	
	Total Data	387	

Data Removal Noise Monitoring Location #3 Cont.



Start Time	End Time	Duration (min)	Reason	
6/27/16 22:17	6/27/16 22:18	0.7	Loud Vehicle Passby	
6/27/16 22:39	6/27/16 22:40	1.2	Coyotes	
6/27/16 22:44	6/27/16 22:45	0.9	Coyotes	
6/27/16 23:08	6/27/16 23:09	0.7	Monitor Check	
6/27/16 23:09	6/27/16 23:11	1.9	Train Passby	
6/27/16 23:12	6/27/16 23:13	0.9	Loud Vehicle Passby	
6/27/16 23:28	6/27/16 23:28	0.7	Train Whistle	
6/28/16 00:15	6/28/16 00:18	2.9	Vehicle and Train	
6/28/16 00:21	6/28/16 00:21	0.2	Back-up beeper	
6/28/16 00:36	6/28/16 00:37	0.7	Train Passby	
6/28/16 00:39	6/28/16 00:41	1.7	Train Passby	
6/28/16 01:09	6/28/16 01:12	3.4	Train Passby	
6/28/16 01:15	6/28/16 01:16	0.7	Train Whistle	
6/28/16 01:31	6/28/16 01:32	1.2	Loud Vehicle Passby	
6/28/16 01:35	6/28/16 01:36	1.2	Loud Vehicle Passby	
6/28/16 01:44	6/28/16 01:46	2.4	Train Passby	
6/28/16 01:51	6/28/16 01:54	3.7	Train Passby	
6/28/16 02:25	6/28/16 02:26	1.2	Loud Vehicle Passby	
6/28/16 02:29	6/28/16 02:30	0.4	Loud Vehicle Passby	
6/28/16 02:38	6/28/16 02:38	0.7	Train Passby	
6/28/16 02:40	6/28/16 02:42	2.2	Train Passby	
6/28/16 02:44	6/28/16 02:44	0.9	Train Passby	
6/28/16 03:02	6/28/16 03:02	0.7	Loud Vehicle Passby	
6/28/16 03:02	6/28/16 03:04	1.7	Train Passby	
6/28/16 03:05	6/28/16 03:06	0.9	Train Passby	
6/28/16 03:08	6/28/16 03:09	0.9	Train Passby	
6/28/16 03:49	6/28/16 03:52	2.4	Loud Vehicle Passby	
6/28/16 03:52	6/28/16 03:55	3.4	Monitor Check	
6/28/16 04:31	6/28/16 04:32	0.7	Train Whistle	
6/28/16 04:36	6/28/16 04:39	2.9	Train Passby	
6/28/16 04:46	6/28/16 04:53	6.9	Train Passby	
6/28/16 05:17	6/28/16 05:20	2.9	Train Passby	
6/28/16 06:00	6/28/16 06:03	3.2	Train Passby	
6/28/16 06:05	6/28/16 06:07	2.2	Train Passby	
6/28/16 06:14	6/28/16 06:14	0.2	Loud Vehicle Passby	
6/28/16 06:14	6/28/16 06:16	1.7	Loud Vehicle Passby	
6/28/16 06:17	6/28/16 06:20	2.7	Loud Vehicle Passby	
6/28/16 06:42	6/28/16 06:47	4.9	Train Passby	
6/28/16 22:00	6/28/16 22:01	0.9	Loud Vehicle Passby	
6/28/16 22:02	6/28/16 22:03	0.9	Train Whistle	
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Start Time	End Time	Duration (min)	Reason
6/28/16 22:06	6/28/16 22:07	1.4	Train Whistle
6/28/16 22:39	6/28/16 22:39	0.7	Loud Vehicle Passby
6/28/16 23:06	6/28/16 23:07	1.2	Loud Vehicle Passby
6/28/16 23:08	6/28/16 23:09	1.2	Loud Vehicle Passby
6/29/16 00:12	6/29/16 00:12	0.7	Loud Vehicle Passby
6/29/16 00:15	6/29/16 00:16	0.9	Monitor Check
6/29/16 01:07	6/29/16 01:09	2.2	Train Whistle
6/29/16 01:35	6/29/16 01:35	0.9	Loud Vehicle Passby
6/29/16 01:38	6/29/16 01:38	0.7	Loud Vehicle Passby
6/29/16 02:33	6/29/16 02:33	0.9	Loud Vehicle Passby
6/29/16 03:05	6/29/16 03:07	1.7	Train Passby
6/29/16 03:16	6/29/16 03:18	2.2	Coyotes
6/29/16 03:40	6/29/16 03:43	2.9	Train Whistles
6/29/16 04:02	6/29/16 04:02	0.9	Train Whistle
6/29/16 04:36	6/29/16 04:38	2.9	Train Passby
6/29/16 04:46	6/29/16 04:47	1.9	Train Whistle
6/29/16 06:35	6/29/16 06:36	1.2	Loud Vehicle Passby
6/29/16 06:40	6/29/16 06:41	1.2	Loud Vehicle Passby
	Total Night #1	68	
	Total Night #2	27	
	Total Data	96	



Data Removal Noise Womtoring Location #5				
Start Time	End Time	Duration (min)	Reason	
6/27/16 22:35	6/27/16 22:36	1.0	Loud Vehicle Passby	
6/28/16 00:38	6/28/16 00:39	1.0	Loud Vehicle Passby	
6/28/16 01:50	6/28/16 01:50	0.7	Loud Vehicle Passby	
6/28/16 04:01	6/28/16 04:02	1.0	Loud Vehicle Passby	
6/28/16 04:05	6/28/16 04:05	1.0	Loud Vehicle Passby	
6/28/16 05:22	6/28/16 05:23	0.7	Loud Vehicle Passby	
6/28/16 05:47	6/28/16 05:48	1.0	Loud Vehicle Passby	
6/28/16 06:10	6/28/16 06:11	1.0	Loud Vehicle Passby	
6/28/16 06:14	6/28/16 06:15	1.0	Loud Vehicle Passby	
6/28/16 06:16	6/28/16 06:17	1.2	Train Passby	
6/28/16 06:21	6/28/16 06:22	1.2	Loud Vehicle Passby	
6/28/16 06:33	6/28/16 06:33	1.0	Loud Vehicle Passby	
6/28/16 06:34	6/28/16 06:35	1.2	Loud Vehicle Passby	
6/28/16 06:38	6/28/16 06:38	0.7	Loud Vehicle Passby	
6/28/16 06:41	6/28/16 06:42	1.2	Loud Vehicle Passby	
6/28/16 06:43	6/28/16 06:44	1.2	Loud Vehicle Passby	
6/28/16 06:46	6/28/16 06:47	0.3	Excessive Bird Noise	
6/28/16 06:49	6/28/16 06:51	1.3	Loud Vehicle Passby	
6/28/16 06:54	6/28/16 06:55	1.0	Loud Vehicle Passby	
6/28/16 22:05	6/28/16 22:05	0.2	Train Passby	
6/28/16 22:08	6/28/16 22:08	0.5	Train Passby	
6/28/16 22:16	6/28/16 22:17	0.7	Loud Vehicle Passby	
6/29/16 00:03	6/29/16 00:04	1.2	Loud Vehicle Passby	
6/29/16 00:06	6/29/16 00:07	1.0	Loud Vehicle Passby	
6/29/16 00:13	6/29/16 00:14	0.7	Loud Vehicle Passby	
6/29/16 01:20	6/29/16 01:21	1.0	Train Whistle	
6/29/16 03:36	6/29/16 03:37	0.7	Train Whistle	
6/29/16 04:14	6/29/16 04:15	1.2	Excessive Bird Noise	
6/29/16 04:59	6/29/16 05:03	3.5	Excessive Bird Noise	
6/29/16 05:12	6/29/16 05:14	1.5	Loud Vehicle Passby	
6/29/16 05:14	6/29/16 05:15	1.0	Loud Vehicle Passby	
6/29/16 05:20	6/29/16 05:21	1.0	Loud Vehicle Passby	
6/29/16 05:28	6/29/16 05:29	1.2	Loud Vehicle Passby	
6/29/16 05:47	6/29/16 05:48	1.2	Loud Vehicle Passby	
6/29/16 06:03	6/29/16 06:04	1.2	Loud Vehicle Passby	
6/29/16 06:09	6/29/16 06:16	7.0	Loud Vehicle Passby	
6/29/16 06:22	6/29/16 06:23	1.2	Loud Vehicle Passby	
6/29/16 06:45	6/29/16 06:47	2.5	Loud Vehicle Passby	
6/29/16 06:52	6/29/16 06:53	0.7	Loud Vehicle Passby	
6/29/16 06:58	6/29/16 06:59	1.0	Loud Vehicle Passby	



Start Time	End Time	Duration (min)	Reason
	Total Night #1	19	
	Total Night #2	30	
	Total Data	49	



Data			
Start Time	End Time	Duration (min)	Reason
Start Time	End Time	Duration (min)	Reason
6/27/16 22:00	6/27/16 22:00	0.4	Train Whistle
6/27/16 22:09	6/27/16 22:10	0.9	Loud Vehicle Passby
6/27/16 22:48	6/27/16 22:49	1.4	Loud Vehicle Passby
6/28/16 01:33	6/28/16 01:34	0.9	Train Whistle
6/28/16 04:10	6/28/16 04:11	0.9	Loud Vehicle Passby
6/28/16 04:13	6/28/16 04:14	1.1	Monitor Check
6/28/16 04:48	6/28/16 04:49	1.1	Excessive Bird Noise
6/28/16 06:45	6/28/16 06:46	1.6	Loud Vehicle Passby
6/28/16 06:51	6/28/16 06:52	1.4	Loud Vehicle Passby
6/28/16 22:05	6/28/16 22:06	0.9	Loud Vehicle Passby
6/28/16 22:09	6/28/16 22:10	1.6	Loud Vehicle Passby
6/28/16 22:27	6/28/16 22:27	0.9	Loud Vehicle Passby
6/28/16 22:30	6/28/16 22:31	0.9	Excessive Bird Noise
6/28/16 22:36	6/28/16 22:37	1.1	Loud Vehicle Passby
6/28/16 23:53	6/28/16 23:55	2.1	Loud Vehicle Passby
6/28/16 23:58	6/28/16 23:59	1.4	Loud Vehicle Passby
6/29/16 01:05	6/29/16 01:06	0.6	Loud Vehicle Passby
6/29/16 01:20	6/29/16 01:20	0.6	Train Whistle
6/29/16 01:31	6/29/16 01:32	0.6	Train Whistle
6/29/16 01:35	6/29/16 01:36	0.9	Train Whistle
6/29/16 02:18	6/29/16 02:19	1.1	Train Whistle
6/29/16 03:56	6/29/16 03:57	0.6	Excessive Bird Noise
6/29/16 06:39	6/29/16 06:42	3.1	Loud Vehicle Passby
6/29/16 06:57	6/29/16 06:58	0.9	Loud Vehicle Passby
	1		·
	Total Night #1	10	
	Total Night #2	17	
	Total Data	27	



Start Time	End Time	Duration (min)	Reason
8/03/16 00:07	8/03/16 00:08	1.2	Train Whistle
8/03/16 00:38	8/03/16 00:39	0.7	Train Whistle
8/03/16 00:42	8/03/16 00:43	1.7	Train Whistle
8/03/16 00:47	8/03/16 00:48	1.0	Train Whistle
8/03/16 01:53	8/03/16 01:55	2.8	Train Passby
8/03/16 02:00	8/03/16 02:04	3.8	Train Passby
8/03/16 03:28	8/03/16 03:29	1.5	Train Whistle
8/03/16 03:48	8/03/16 03:49	1.2	Train Passby
8/03/16 04:52	8/03/16 04:53	2.0	Train Passby
8/03/16 04:58	8/03/16 04:59	1.2	Train Passby
8/03/16 05:52	8/03/16 05:53	1.7	Loud Vehicle Passby
8/03/16 06:25	8/03/16 06:29	3.7	Loud Vehicle Passby
8/03/16 06:45	8/03/16 06:46	1.7	Loud Vehicle Passby
8/03/16 06:50	8/03/16 06:51	1.2	Loud Vehicle Passby
8/03/16 22:33	8/03/16 22:35	2.5	Loud Vehicle Passby
8/03/16 23:19	8/03/16 23:20	1.0	Loud Vehicle Passby
8/04/16 01:07	8/04/16 01:09	1.5	Loud Vehicle Passby
8/04/16 01:12	8/04/16 01:14	1.7	Loud Vehicle Passby
8/04/16 01:19	8/04/16 01:21	1.7	Loud Vehicle Passby
8/04/16 01:43	8/04/16 01:46	3.0	Loud Vehicle Passby
8/04/16 01:50	8/04/16 01:52	2.2	Loud Vehicle Passby
8/04/16 01:57	8/04/16 01:58	1.7	Loud Vehicle Passby
8/04/16 02:19	8/04/16 02:24	5.7	Aircraft Flyover
8/04/16 02:57	8/04/16 02:57	0.2	Train Passby
8/04/16 03:32	8/04/16 03:34	2.5	Train Whistle
8/04/16 06:05	8/04/16 06:06	0.5	Excessive Bird Noise
8/04/16 06:09	8/04/16 06:09	1.0	Excessive Bird Noise
8/04/16 06:32	8/04/16 06:33	1.2	Excessive Bird Noise
8/04/16 06:39	8/04/16 06:46	7.5	Loud Vehicle Passby
8/04/16 06:54	8/04/16 06:55	1.0	Loud Vehicle Passby
8/04/16 06:59	8/04/16 07:01	2.0	Loud Vehicle Passby
	Total Night #1	25	
	Total Night #2	36	
	Total Data	62	



Data Removal Noise Monitoring Location #9				
Start Time	End Time	Duration (min)	Reason	
Start Time	End Time	Duration (min)	Reason	
8/02/16 22:00	8/02/16 22:09	8.6	Train Passby	
8/02/16 22:17	8/02/16 22:17	0.6	Loud Vehicle Passby	
8/02/16 22:20	8/02/16 22:20	0.3	Abnormal	
8/02/16 22:46	8/02/16 22:48	1.3	Loud Vehicle Passby	
8/02/16 22:54	8/02/16 22:56	1.6	Loud Vehicle Passby	
8/02/16 23:03	8/02/16 23:04	1.1	Train Whistle	
8/02/16 23:05	8/02/16 23:06	0.8	Train Whistle	
8/02/16 23:10	8/02/16 23:11	1.1	Loud Vehicle Passby	
8/02/16 23:13	8/02/16 23:14	0.8	Loud Vehicle Passby	
8/02/16 23:30	8/02/16 23:30	0.1	Monitor Check	
8/02/16 23:30	8/02/16 23:30	0.1	Monitor Check	
8/02/16 23:30	8/02/16 23:35	4.3	Monitor Check	
8/02/16 23:36	8/02/16 23:36	0.8	Monitor Check	
8/03/16 00:02	8/03/16 00:03	1.3	Backup beeper	
8/03/16 00:07	8/03/16 00:07	0.6	Train Whistle	
8/03/16 00:08	8/03/16 00:10	1.6	Train Whistle	
8/03/16 00:21	8/03/16 00:22	0.6	Train Passby	
8/03/16 00:27	8/03/16 00:27	0.8	Loud Vehicle Passby	
8/03/16 02:06	8/03/16 02:07	1.1	Train Passby	
8/03/16 02:27	8/03/16 02:29	1.8	Train Passby	
8/03/16 02:36	8/03/16 02:42	6.6	Train Passby	
8/03/16 03:30	8/03/16 03:38	7.3	Train Passby	
8/03/16 04:32	8/03/16 04:33	1.1	Loud Vehicle Passby	
8/03/16 04:45	8/03/16 04:48	2.6	Train Whistle	
8/03/16 04:54	8/03/16 04:55	1.1	Loud Vehicle Passby	
8/03/16 05:03	8/03/16 05:03	0.8	Loud Vehicle Passby	
8/03/16 05:06	8/03/16 05:06	0.6	Loud Vehicle Passby	
8/03/16 05:19	8/03/16 05:20	0.8	Loud Vehicle Passby	
8/03/16 05:24	8/03/16 05:24	0.8	Loud Vehicle Passby	
8/03/16 05:33	8/03/16 05:34	0.6	Excessive Bird Noise	
8/03/16 05:55	8/03/16 05:55	0.1	Loud Vehicle Passby	
8/03/16 06:05	8/03/16 06:08	2.8	Loud Vehicle Passby	
8/03/16 06:09	8/03/16 06:09	0.3	Loud Vehicle Passby	
8/03/16 06:11	8/03/16 06:12	0.6	Loud Vehicle Passby	
8/03/16 06:12	8/03/16 06:13	1.1	Loud Vehicle Passby	
8/03/16 06:15	8/03/16 06:16	0.6	Loud Vehicle Passby	
8/03/16 06:17	8/03/16 06:17	0.3	Loud Vehicle Passby	
8/03/16 06:18	8/03/16 06:22	4.1	Loud Vehicle Passby	
8/03/16 06:24	8/03/16 06:25	0.8	Loud Vehicle Passby	



Data Kt		violintoring Lo	cation #9 Cont.
Start Time	End Time	Duration (min)	Reason
8/03/16 06:27	8/03/16 06:29	2.1	Loud Vehicle Passby
8/03/16 06:30	8/03/16 06:30	0.6	Loud Vehicle Passby
8/03/16 06:33	8/03/16 06:36	2.6	Loud Vehicle Passby
8/03/16 06:37	8/03/16 06:41	3.6	Loud Vehicle Passby
8/03/16 06:42	8/03/16 06:44	2.1	Loud Vehicle Passby
8/03/16 06:45	8/03/16 06:49	3.6	Loud Vehicle Passby
8/03/16 06:50	8/03/16 06:51	1.1	Loud Vehicle Passby
8/03/16 06:51	8/03/16 06:59	8.3	Loud Vehicle Passby
8/03/16 22:02	8/03/16 22:03	1.6	Dog Barking
8/03/16 22:04	8/03/16 22:09	5.1	Train Passby
8/03/16 22:09	8/03/16 22:12	3.3	Train Passby
8/03/16 22:19	8/03/16 22:19	0.1	Loud Vehicle Passby
8/03/16 22:19	8/03/16 22:20	1.1	Loud Vehicle Passby
8/03/16 22:25	8/03/16 22:26	1.8	Loud Vehicle Passby
8/03/16 22:34	8/03/16 22:36	1.8	Train Passby
8/03/16 22:40	8/03/16 22:41	1.6	Loud Vehicle Passby
8/03/16 23:07	8/03/16 23:08	1.1	Train Passby
8/03/16 23:13	8/03/16 23:14	1.1	Loud Vehicle Passby
8/03/16 23:15	8/03/16 23:15	0.1	Train Passby
8/03/16 23:20	8/03/16 23:21	1.1	Aircraft Flyover
8/03/16 23:38	8/03/16 23:41	3.1	Loud Vehicle Passby
8/03/16 23:46	8/03/16 23:47	1.1	Train Passby
8/03/16 23:59	8/03/16 23:59	0.8	Loud Vehicle Passby
8/04/16 00:43	8/04/16 00:44	0.8	Loud Vehicle Passby
8/04/16 00:48	8/04/16 00:49	1.1	Loud Vehicle Passby
8/04/16 00:56	8/04/16 00:57	1.6	Loud Vehicle Passby
8/04/16 01:02	8/04/16 01:03	1.6	Loud Vehicle Passby
8/04/16 01:48	8/04/16 01:49	1.3	Train Passby
8/04/16 02:09	8/04/16 02:12	3.1	Monitor Check
8/04/16 02:15	8/04/16 02:16	1.1	Loud Vehicle Passby
8/04/16 02:17	8/04/16 02:19	2.1	Loud Vehicle Passby
8/04/16 03:23	8/04/16 03:23	0.8	Train Whistle
8/04/16 04:05	8/04/16 04:13	8.6	Train Passby
8/04/16 04:15	8/04/16 04:16	1.3	Loud Vehicle Passby
8/04/16 04:34	8/04/16 04:35	0.8	Loud Vehicle Passby
8/04/16 04:51	8/04/16 04:52	1.1	Train Whistle
8/04/16 04:54	8/04/16 04:55	1.8	Train Whistle
8/04/16 04:56	8/04/16 05:00	4.1	Train Passby
8/04/16 05:22	8/04/16 05:25	2.6	Train Passby
8/04/16 05:42	8/04/16 05:43	0.8	Loud Vehicle Passby



Start Time	End Time	Duration (min)	Reason
8/04/16 05:56	8/04/16 05:57	1.1	Loud Vehicle Passby
8/04/16 05:59	8/04/16 06:00	1.8	Loud Vehicle Passby
8/04/16 06:04	8/04/16 06:06	1.3	Loud Vehicle Passby
8/04/16 06:08	8/04/16 06:11	3.1	Loud Vehicle Passby
8/04/16 06:13	8/04/16 06:16	2.6	Loud Vehicle Passby
8/04/16 06:19	8/04/16 06:22	3.1	Loud Vehicle Passby
8/04/16 06:30	8/04/16 06:33	3.1	Loud Vehicle Passby
8/04/16 06:37	8/04/16 06:39	2.8	Loud Vehicle Passby
8/04/16 06:46	8/04/16 06:52	6.1	Train Passby
8/04/16 06:53	8/04/16 07:00	6.8	Loud Vehicle Passby
	Total Night #1	85	
	Total Night #2	90	
	Total Data	175	



Start Time	End Time	Duration (min)	Reason
6/27/16 22:02	6/27/16 22:03	1.1	Train Whistle
6/27/16 22:06	6/27/16 22:09	3.1	Loud Vehicle Passby
6/27/16 22:18	6/27/16 22:20	1.4	Loud Vehicle Passby
6/27/16 22:22	6/27/16 22:23	0.9	Loud Vehicle Passby
6/27/16 22:34	6/27/16 22:36	2.4	Loud Vehicle Passby
6/27/16 22:40	6/27/16 22:42	1.9	Loud Vehicle Passby
6/27/16 22:43	6/27/16 22:44	1.9	Loud Vehicle Passby
6/27/16 22:47	6/27/16 22:49	1.6	Loud Vehicle Passby
6/27/16 22:50	6/27/16 22:52	2.4	Loud Vehicle Passby
6/27/16 23:04	6/27/16 23:05	0.9	Loud Vehicle Passby
6/27/16 23:13	6/27/16 23:13	0.9	Loud Vehicle Passby
6/27/16 23:16	6/27/16 23:17	1.1	Loud Vehicle Passby
6/27/16 23:24	6/27/16 23:25	1.1	Loud Vehicle Passby
6/27/16 23:42	6/27/16 23:43	0.9	Train Whistle
6/27/16 23:44	6/27/16 23:44	0.9	Train Whistle
6/27/16 23:45	6/27/16 23:46	0.6	Loud Vehicle Passby
6/27/16 23:48	6/27/16 23:50	1.9	Loud Vehicle Passby
6/27/16 23:51	6/27/16 23:52	0.6	Loud Vehicle Passby
6/28/16 00:16	6/28/16 00:17	0.9	Loud Vehicle Passby
6/28/16 00:28	6/28/16 00:29	1.1	Train Whistle
6/28/16 00:46	6/28/16 00:47	0.6	Loud Vehicle Passby
6/28/16 00:49	6/28/16 00:51	2.1	Loud Vehicle Passby
6/28/16 01:02	6/28/16 01:02	0.6	Train Whistle
6/28/16 01:08	6/28/16 01:08	0.6	Loud Vehicle Passby
6/28/16 01:10	6/28/16 01:11	0.6	Loud Vehicle Passby
6/28/16 01:25	6/28/16 01:26	1.1	Loud Vehicle Passby
6/28/16 01:33	6/28/16 01:33	0.9	Loud Vehicle Passby
6/28/16 01:34	6/28/16 01:38	3.9	Loud Vehicle Passby
6/28/16 01:42	6/28/16 01:42	0.9	Loud Vehicle Passby
6/28/16 01:44	6/28/16 01:45	1.1	Train Passby
6/28/16 01:49	6/28/16 01:51	2.4	Loud Vehicle Passby
6/28/16 01:58	6/28/16 01:59	1.1	Loud Vehicle Passby
6/28/16 02:03	6/28/16 02:04	1.1	Loud Vehicle Passby
6/28/16 02:26	6/28/16 02:26	0.6	Loud Vehicle Passby
6/28/16 02:34	6/28/16 02:35	0.6	Loud Vehicle Passby
6/28/16 02:38	6/28/16 02:39	0.6	Loud Vehicle Passby
6/28/16 02:53	6/28/16 02:54	1.6	Loud Vehicle Passby
6/28/16 02:59	6/28/16 03:01	2.6	Loud Vehicle Passby
6/28/16 03:15	6/28/16 03:15	0.6	Loud Vehicle Passby
6/28/16 03:41	6/28/16 03:42	0.9	Loud Vehicle Passby



Start Time	End Time	Duration (min)	Reason
6/28/16 03:44	6/28/16 03:44	0.9	Loud Vehicle Passby
6/28/16 03:45	6/28/16 03:46	1.1	Loud Vehicle Passby
6/28/16 03:50	6/28/16 03:52	1.9	Loud Vehicle Passby
6/28/16 04:07	6/28/16 04:09	1.4	Loud Vehicle Passby
6/28/16 04:23	6/28/16 04:24	1.4	Loud Vehicle Passby
6/28/16 04:30	6/28/16 04:31	1.1	Loud Vehicle Passby
6/28/16 04:36	6/28/16 04:37	1.6	Loud Vehicle Passby
6/28/16 04:43	6/28/16 04:44	1.4	Loud Vehicle Passby
6/28/16 04:47	6/28/16 04:51	3.9	Loud Vehicle Passby
6/28/16 04:58	6/28/16 05:01	2.6	Loud Vehicle Passby
6/28/16 05:07	6/28/16 05:08	1.9	Loud Vehicle Passby
6/28/16 05:11	6/28/16 05:12	1.6	Loud Vehicle Passby
6/28/16 05:13	6/28/16 05:16	2.9	Loud Vehicle Passby
6/28/16 05:16	6/28/16 05:26	10.4	Loud Vehicle Passby
6/28/16 05:28	6/28/16 05:30	1.9	Loud Vehicle Passby
6/28/16 05:30	6/28/16 06:59	89.6	Loud Vehicle Passby
6/28/16 22:04	6/28/16 22:04	0.4	Loud Vehicle Passby
6/28/16 22:11	6/28/16 22:11	0.4	Loud Vehicle Passby
6/28/16 22:18	6/28/16 22:19	0.6	Loud Vehicle Passby
6/28/16 22:21	6/28/16 22:21	0.9	Loud Vehicle Passby
6/28/16 22:22	6/28/16 22:23	0.6	Loud Vehicle Passby
6/28/16 22:27	6/28/16 22:27	0.4	Loud Vehicle Passby
6/28/16 22:30	6/28/16 22:31	1.1	Loud Vehicle Passby
6/28/16 22:33	6/28/16 22:33	0.6	Loud Vehicle Passby
6/28/16 22:47	6/28/16 22:47	0.9	Loud Vehicle Passby
6/28/16 22:53	6/28/16 22:54	0.9	Loud Vehicle Passby
6/28/16 22:54	6/28/16 22:55	0.9	Loud Vehicle Passby
6/28/16 22:57	6/28/16 22:57	0.9	Loud Vehicle Passby
6/28/16 23:01	6/28/16 23:02	0.6	Loud Vehicle Passby
6/28/16 23:03	6/28/16 23:04	1.1	Loud Vehicle Passby
6/28/16 23:11	6/28/16 23:11	0.9	Loud Vehicle Passby
6/28/16 23:12	6/28/16 23:13	0.9	Loud Vehicle Passby
6/28/16 23:14	6/28/16 23:15	0.9	Loud Vehicle Passby
6/28/16 23:18	6/28/16 23:18	0.6	Loud Vehicle Passby
6/28/16 23:24	6/28/16 23:24	0.9	Loud Vehicle Passby
6/28/16 23:30	6/28/16 23:31	1.1	Loud Vehicle Passby
6/28/16 23:33	6/28/16 23:34	1.4	Loud Vehicle Passby
6/28/16 23:45	6/28/16 23:46	1.1	Loud Vehicle Passby
6/28/16 23:48	6/28/16 23:48	0.1	Loud Vehicle Passby
6/28/16 23:49	6/28/16 23:49	0.9	Loud Vehicle Passby



			<u>Location #10 Cont.</u>
Start Time	End Time	Duration (min)	Reason
6/29/16 00:11	6/29/16 00:11	0.6	Loud Vehicle Passby
6/29/16 00:21	6/29/16 00:22	0.9	Loud Vehicle Passby
6/29/16 00:23	6/29/16 00:23	0.6	Loud Vehicle Passby
6/29/16 00:27	6/29/16 00:28	0.9	Loud Vehicle Passby
6/29/16 00:39	6/29/16 00:40	0.9	Loud Vehicle Passby
6/29/16 00:48	6/29/16 00:48	0.1	Loud Vehicle Passby
6/29/16 00:48	6/29/16 00:48	0.4	Loud Vehicle Passby
6/29/16 01:00	6/29/16 01:00	0.6	Loud Vehicle Passby
6/29/16 01:01	6/29/16 01:02	0.9	Loud Vehicle Passby
6/29/16 01:10	6/29/16 01:11	0.6	Loud Vehicle Passby
6/29/16 01:12	6/29/16 01:13	0.9	Loud Vehicle Passby
6/29/16 01:27	6/29/16 01:28	1.1	Loud Vehicle Passby
6/29/16 01:34	6/29/16 01:35	0.9	Loud Vehicle Passby
6/29/16 01:36	6/29/16 01:36	0.6	Loud Vehicle Passby
6/29/16 01:48	6/29/16 01:48	0.9	Loud Vehicle Passby
6/29/16 02:06	6/29/16 02:07	1.1	Loud Vehicle Passby
6/29/16 02:12	6/29/16 02:14	1.9	Loud Vehicle Passby
6/29/16 02:41	6/29/16 02:42	1.1	Loud Vehicle Passby
6/29/16 02:51	6/29/16 02:59	7.9	Train Passby
6/29/16 03:35	6/29/16 03:35	0.1	Loud Vehicle Passby
6/29/16 03:35	6/29/16 03:37	2.1	Loud Vehicle Passby
6/29/16 03:44	6/29/16 03:46	1.9	Loud Vehicle Passby
6/29/16 03:55	6/29/16 03:55	0.9	Loud Vehicle Passby
6/29/16 04:15	6/29/16 04:17	1.6	Loud Vehicle Passby
6/29/16 04:25	6/29/16 04:26	1.4	Loud Vehicle Passby
6/29/16 04:30	6/29/16 04:31	1.4	Loud Vehicle Passby
6/29/16 04:36	6/29/16 04:38	2.6	Loud Vehicle Passby
6/29/16 04:44	6/29/16 05:01	17.6	Loud Vehicle Passby
6/29/16 05:08	6/29/16 05:14	5.9	Loud Vehicle Passby
6/29/16 05:16	6/29/16 05:36	20.9	Loud Vehicle Passby
6/29/16 05:37	6/29/16 06:58	81.4	Loud Vehicle Passby
6/29/16 06:59	6/29/16 07:00	1.4	Loud Vehicle Passby
	Total Night #1	177	
	Total Night #2	181	
	Total Data	358	



Data Kemoval Noise Montoring Location #11			
Start Time	End Time	Duration (min)	Reason
8/02/16 23:11	8/02/16 23:11	0.9	Train Passby
8/02/16 23:15	8/02/16 23:20	5.4	Monitor Check
8/02/16 23:21	8/02/16 23:22	0.9	Loud Vehicle Passby
8/02/16 23:44	8/02/16 23:45	1.4	Loud Vehicle Passby
8/03/16 00:07	8/03/16 00:07	0.9	Train Passby
8/03/16 00:41	8/03/16 00:42	0.9	Train Passby
8/03/16 00:47	8/03/16 00:48	1.2	Train Passby
8/03/16 01:19	8/03/16 01:19	0.7	Train Whistle
8/03/16 01:22	8/03/16 01:23	0.7	Train Whistle
8/03/16 01:45	8/03/16 01:45	0.7	Train Whistle
8/03/16 03:48	8/03/16 03:48	0.7	Train Whistle
8/03/16 04:12	8/03/16 04:12	0.7	Train Whistle
8/03/16 04:21	8/03/16 04:21	0.2	Train Whistle
8/03/16 04:21	8/03/16 04:22	0.7	Train Whistle
8/03/16 04:44	8/03/16 04:50	5.9	Loud Vehicle Passby
8/03/16 04:57	8/03/16 04:59	1.9	Train Whistle
8/03/16 05:09	8/03/16 05:13	3.4	Excessive Bird Noise
8/03/16 05:26	8/03/16 05:27	0.9	Train Passby
8/03/16 05:38	8/03/16 05:40	1.9	Loud Vehicle Passby
8/03/16 05:45	8/03/16 05:49	4.2	Loud Vehicle Passby
8/03/16 05:50	8/03/16 05:54	4.7	Loud Vehicle Passby
8/03/16 05:57	8/03/16 06:03	6.7	Loud Vehicle Passby
8/03/16 06:04	8/03/16 06:48	44.4	Loud Vehicle Passby
8/03/16 06:52	8/03/16 06:55	2.4	Loud Vehicle Passby
8/03/16 22:28	8/03/16 22:29	0.9	Loud Vehicle Passby
8/03/16 22:30	8/03/16 22:31	1.4	Loud Vehicle Passby
8/03/16 22:45	8/03/16 22:52	7.2	Train Passby
8/03/16 23:19	8/03/16 23:20	1.4	Aircraft Flyover
8/03/16 23:36	8/03/16 23:37	1.7	Loud Vehicle Passby
8/03/16 23:44	8/03/16 23:44	0.4	Train Whistle
8/03/16 23:47	8/03/16 23:48	0.7	Train Whistle
8/04/16 00:14	8/04/16 00:14	0.2	Loud Vehicle Passby
8/04/16 00:14	8/04/16 00:15	1.4	Loud Vehicle Passby
8/04/16 00:39	8/04/16 00:42	3.2	Train Passby
8/04/16 01:52	8/04/16 01:56	4.4	Monitor Check
8/04/16 02:00	8/04/16 02:02	1.9	Loud Vehicle Passby
8/04/16 02:18	8/04/16 02:20	1.4	Aircraft Flyover
8/04/16 04:14	8/04/16 04:16	1.7	Train Whistle
8/04/16 04:39	8/04/16 04:40	1.2	Train Whistle
8/04/16 04:58	8/04/16 04:59	1.7	Loud Vehicle Passby



	-	-	
Start Time	End Time	Duration (min)	Reason
8/04/16 05:34	8/04/16 05:37	3.9	Loud Vehicle Passby
8/04/16 05:42	8/04/16 05:44	2.2	Loud Vehicle Passby
8/04/16 05:45	8/04/16 05:49	4.2	Loud Vehicle Passby
8/04/16 05:50	8/04/16 05:52	2.2	Loud Vehicle Passby
8/04/16 05:53	8/04/16 05:56	2.7	Loud Vehicle Passby
8/04/16 05:58	8/04/16 06:00	2.4	Loud Vehicle Passby
8/04/16 06:00	8/04/16 06:02	1.7	Loud Vehicle Passby
8/04/16 06:03	8/04/16 06:05	2.9	Loud Vehicle Passby
8/04/16 06:06	8/04/16 06:13	6.7	Loud Vehicle Passby
8/04/16 06:13	8/04/16 06:32	18.7	Loud Vehicle Passby
8/04/16 06:34	8/04/16 06:47	13.2	Loud Vehicle Passby
8/04/16 06:49	8/04/16 06:50	1.2	Loud Vehicle Passby
8/04/16 06:53	8/04/16 06:54	1.4	Loud Vehicle Passby
8/04/16 06:57	8/04/16 06:59	1.9	Loud Vehicle Passby
	Total Night #1	93	
	Total Night #2	96	
	Total Data	189	



Start Time End Time **Duration (min)** Reason 6/27/16 22:01 6/27/16 22:02 1.6 **Excessive Bird Noise** 6/27/16 22:06 6/27/16 22:12 6.1 **Excessive Bird Noise** 6/27/16 22:14 6/27/16 22:19 5.8 Excessive Bird Noise 6/27/16 22:27 **Excessive Bird Noise** 6/27/16 22:30 3.1 6/27/16 22:33 6/27/16 22:35 1.6 **Excessive Bird Noise** 6/27/16 22:43 6/27/16 22:44 0.8 Train Passby 6/27/16 22:47 6/27/16 22:51 4.3 Train Passby 6/27/16 22:59 6/27/16 23:02 Loud Vehicle Passby 2.6 6/27/16 23:05 6/27/16 23:06 1.3 Train Whistle 6/27/16 23:08 6/27/16 23:14 6.8 Train Passby 6/27/16 23:20 6/27/16 23:22 2.1 Loud Vehicle Passby 6/27/16 23:29 6/27/16 23:34 5.3 Train Passby 6/27/16 23:37 6/27/16 23:42 4.8 Train Passby 6/27/16 23:43 6/27/16 23:44 0.8 Site noise 6/28/16 00:24 6/28/16 00:30 6.6 Train Passby 6/28/16 00:36 6/28/16 00:37 0.8 Train Passby 6/28/16 00:45 6/28/16 00:47 2.1 Loud Vehicle Passby 6/28/16 01:14 6/28/16 01:25 11.1 Train Passby 6/28/16 01:39 Train Whistle 6/28/16 01:40 0.6 6/28/16 01:55 6/28/16 01:59 4.8 Train Passby 6/28/16 02:06 6/28/16 02:14 8.1 Train Passby 6/28/16 03:04 1.6 6/28/16 03:05 Loud Vehicle Passby 6/28/16 03:08 6/28/16 03:10 2.1 Loud Vehicle Passby 6/28/16 03:14 6/28/16 03:15 0.8 Train Whistle 6/28/16 03:17 6/28/16 03:18 1.6 Train Whistle 6/28/16 03:19 6/28/16 03:19 0.1 Train Passby 6/28/16 03:20 6/28/16 03:21 1.6 Train Passby 6/28/16 03:26 6/28/16 03:30 4.3 Train Passby 6/28/16 03:35 6/28/16 03:36 0.6 Train Whistle 6/28/16 03:51 6/28/16 04:06 15.6 Birds 6/28/16 04:07 6/28/16 04:24 17.3 Excessive Bird Noise 6/28/16 04:24 6/28/16 04:33 8.8 Train Passby 6/28/16 04:36 6/28/16 05:23 47.3 **Excessive Bird Noise** 6/28/16 05:25 6/28/16 07:01 95.3 Morning Chorus 6/28/16 22:13 6/28/16 22:15 2.3 **Excessive Bird Noise** 6/28/16 22:16 6/28/16 22:29 13.8 Train Passby 6/28/16 22:39 6/28/16 22:41 1.8 Loud Vehicle Passby 6/28/16 22:49 6/28/16 22:50 1.1 Train Passby 6/28/16 22:51 6/28/16 22:55 4.3 Train Passby 6/28/16 23:00 6/28/16 23:01 0.8 Animal

Data Removal Noise Monitoring Location #12 (First Monitoring Period)



Data Removal Noise Monitoring Location #12 (First Monitoring Period) Cont.

Start Time	End Time	Duration (min)	Reason
6/28/16 23:03	6/28/16 23:04	0.6	Loud Vehicle Passby
6/28/16 23:05	6/28/16 23:05	0.8	Loud Vehicle Passby
6/28/16 23:06	6/28/16 23:08	2.3	Train Passby
6/28/16 23:14	6/28/16 23:15	1.1	Loud Vehicle Passby
6/28/16 23:20	6/28/16 23:21	1.3	Loud Vehicle Passby
6/28/16 23:25	6/28/16 23:27	1.8	Loud Vehicle Passby
6/28/16 23:36	6/28/16 23:36	0.8	Loud Vehicle Passby
6/28/16 23:39	6/28/16 23:40	1.6	Loud Vehicle Passby
6/28/16 23:45	6/28/16 23:46	0.8	Loud Vehicle Passby
6/28/16 23:47	6/28/16 23:49	1.6	Loud Vehicle Passby
6/29/16 00:01	6/29/16 00:03	2.1	Loud Vehicle Passby
6/29/16 00:13	6/29/16 00:17	3.8	Loud Vehicle Passby
6/29/16 00:22	6/29/16 00:24	2.3	Loud Vehicle Passby
6/29/16 00:37	6/29/16 00:39	1.6	Loud Vehicle Passby
6/29/16 00:42	6/29/16 00:43	1.1	Loud Vehicle Passby
6/29/16 00:48	6/29/16 00:49	1.8	Loud Vehicle Passby
6/29/16 00:56	6/29/16 00:58	2.6	Train Passby
6/29/16 01:01	6/29/16 01:02	1.1	Loud Vehicle Passby
6/29/16 01:07	6/29/16 01:08	1.8	Train Passby
6/29/16 01:20	6/29/16 01:30	10.8	Train Passby
6/29/16 01:34	6/29/16 01:49	14.8	Train Passby
6/29/16 01:51	6/29/16 01:52	1.8	Loud Vehicle Passby
6/29/16 01:53	6/29/16 01:55	1.8	Loud Vehicle Passby
6/29/16 01:56	6/29/16 01:58	2.3	Loud Vehicle Passby
6/29/16 02:00	6/29/16 02:03	3.1	Loud Vehicle Passby
6/29/16 02:08	6/29/16 02:10	1.3	Loud Vehicle Passby
6/29/16 02:26	6/29/16 02:30	3.8	Train Passby
6/29/16 02:32	6/29/16 02:33	0.6	Loud Vehicle Passby
6/29/16 02:41	6/29/16 02:41	0.1	Loud Vehicle Passby
6/29/16 02:50	6/29/16 02:53	3.3	Loud Vehicle Passby
6/29/16 03:01	6/29/16 03:02	1.8	Loud Vehicle Passby
6/29/16 03:25	6/29/16 03:28	3.3	Loud Vehicle Passby
6/29/16 03:29	6/29/16 03:31	1.8	Loud Vehicle Passby
6/29/16 03:36	6/29/16 03:38	2.1	Loud Vehicle Passby
6/29/16 03:53	6/29/16 04:18	25.1	Loud Vehicle Passby
6/29/16 04:19	6/29/16 04:40	20.8	Excessive Bird Noise
6/29/16 04:41	6/29/16 05:03	22.6	Excessive Bird Noise
6/29/16 05:16	6/29/16 05:27	11.6	Loud Vehicle Passby
6/29/16 05:28	6/29/16 06:59	91.1	Heavy Traffic, Morning Chorus



Data Removal Noise Monitoring Location #12 (First Monitoring Period) Cont.

Start Time	End Time	Duration (min)	Reason
	Total Night #1	278	
	Total Night #2	280	
	Total Data	558	



Data Removal Noise Monitoring Location #12 (Second Monitoring Period)

Start Time End Time Duration (min) Reason 8/02/16 22:00 8/02/16 22:03 3.1 Loud Vehicle Passby 8/02/16 22:21 8/02/16 22:32 2.9 Loud Vehicle Passby 8/02/16 22:25 8/02/16 22:37 1.4 Loud Vehicle Passby 8/02/16 22:30 8/02/16 22:37 1.4 Loud Vehicle Passby 8/02/16 23:09 8/02/16 23:13 3.6 Loud Vehicle Passby 8/02/16 23:15 8/02/16 23:15 0.1 Loud Vehicle Passby 8/02/16 23:15 8/02/16 23:18 2.1 Loud Vehicle Passby 8/02/16 23:24 8/02/16 23:11 2.9 Loud Vehicle Passby 8/02/16 23:24 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:40 8/02/16 23:41 1.9 Loud Vehicle Passby 8/02/16 23:54 4.9 Loud Vehicle Passby 8/03/16 00:57 8/03/16 00:52 3.1				
8/02/16 22:21 8/02/16 22:22 7.1 Loud Vehicle Passby 8/02/16 22:29 8/02/16 22:32 2.9 Loud Vehicle Passby 8/02/16 22:45 8/02/16 22:37 1.4 Loud Vehicle Passby 8/02/16 22:55 8/02/16 23:09 0.1 Loud Vehicle Passby 8/02/16 23:09 8/02/16 23:13 3.6 Loud Vehicle Passby 8/02/16 23:15 8/02/16 23:15 0.1 Loud Vehicle Passby 8/02/16 23:26 2.1 Loud Vehicle Passby 8/02/16 23:28 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:24 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:28 8/02/16 23:34 4.9 Loud Vehicle Passby 8/02/16 23:59 8/03/16 0:00 1.4 Loud Vehicle Passby 8/02/16 23:59 8/03/16 0:02 2.9 Loud Vehicle Passby 8/03/16 0:27 8/03/16 0:29 2.9 Loud Vehicle Passby 8/03/16 0:27 8/03/16 0:26 3.1 Loud Vehicle Passby 8/03/16 0:28 8/03/16 0:27 1.4 Loud Vehicle Passby <th>Start Time</th> <th>End Time</th> <th>Duration (min)</th> <th>Reason</th>	Start Time	End Time	Duration (min)	Reason
B/02/16 22:29 B/02/16 22:32 2.9 Loud Vehicle Passby B/02/16 22:45 B/02/16 22:48 2.6 Loud Vehicle Passby B/02/16 22:55 B/02/16 22:57 1.4 Loud Vehicle Passby B/02/16 23:09 B/02/16 23:13 3.6 Loud Vehicle Passby B/02/16 23:15 B/02/16 23:15 0.1 Loud Vehicle Passby B/02/16 23:16 B/02/16 23:18 2.1 Loud Vehicle Passby B/02/16 23:24 B/02/16 23:31 2.9 Loud Vehicle Passby B/02/16 23:30 B/02/16 23:31 2.9 Loud Vehicle Passby B/02/16 23:40 B/02/16 23:41 1.9 Loud Vehicle Passby B/02/16 23:59 B/03/16 00:00 1.4 Loud Vehicle Passby B/03/16 00:27 B/03/16 00:29 2.9 Loud Vehicle Passby B/03/16 00:28 B/03/16 00:27 3.1 Loud Vehicle Passby B/03/16 00:29 2.9 Loud Vehicle Passby B/03/16 00:59 B/03/16 00:29 B/03/16 01:20 0.6 Loud Vehicle Passby B/03/16 00:20 B/03/16 01:20 0.6	8/02/16 22:00	8/02/16 22:03	3.1	Loud Vehicle Passby
8/02/16 22:45 8/02/16 22:48 2.6 Loud Vehicle Passby 8/02/16 22:55 8/02/16 22:57 1.4 Loud Vehicle Passby 8/02/16 23:09 8/02/16 23:13 3.6 Loud Vehicle Passby 8/02/16 23:15 8/02/16 23:15 0.1 Loud Vehicle Passby 8/02/16 23:15 8/02/16 23:18 2.1 Loud Vehicle Passby 8/02/16 23:24 8/02/16 23:26 2.1 Loud Vehicle Passby 8/02/16 23:24 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:28 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:50 8/02/16 23:54 4.9 Loud Vehicle Passby 8/02/16 23:50 8/03/16 0:00 1.4 Loud Vehicle Passby 8/03/16 0:01 8/03/16 0:02 2.9 Loud Vehicle Passby 8/03/16 0:027 8/03/16 0:05 3.1 Loud Vehicle Passby 8/03/16 0:035 8/03/16 0:07 1.4 Loud Vehicle Passby 8/03/16 0:049 8/03/16 0:07 1.4 Loud Vehicle Passby 8/03/16 0:16 8/03/16 0:20 1.6 Lo	8/02/16 22:21	8/02/16 22:28	7.1	Loud Vehicle Passby
8/02/16 22:55 8/02/16 23:09 0.1 Loud Vehicle Passby 8/02/16 23:09 8/02/16 23:13 3.6 Loud Vehicle Passby 8/02/16 23:15 8/02/16 23:15 0.1 Loud Vehicle Passby 8/02/16 23:16 8/02/16 23:18 2.1 Loud Vehicle Passby 8/02/16 23:24 8/02/16 23:26 2.1 Loud Vehicle Passby 8/02/16 23:28 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:50 8/02/16 23:54 4.9 Loud Vehicle Passby 8/02/16 23:50 8/02/16 23:54 4.9 Loud Vehicle Passby 8/02/16 23:59 8/03/16 00:00 1.4 Loud Vehicle Passby 8/02/16 00:14 8/03/16 00:07 2.9 Loud Vehicle Passby 8/03/16 00:27 8/03/16 00:37 2.4 Loud Vehicle Passby 8/03/16 00:59 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:02 8/03/16 01:20 0.6 Loud Vehicle Passby 8/03/16 01:20 8/03/16 01:20 0.6 Loud Vehicle Passby 8/03/16 02:16 8/03/16 02:26 3.4	8/02/16 22:29	8/02/16 22:32	2.9	Loud Vehicle Passby
8/02/16 23:09 8/02/16 23:13 3.6 Loud Vehicle Passby 8/02/16 23:15 8/02/16 23:15 0.1 Loud Vehicle Passby 8/02/16 23:15 8/02/16 23:15 0.1 Loud Vehicle Passby 8/02/16 23:16 8/02/16 23:26 2.1 Loud Vehicle Passby 8/02/16 23:28 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:26 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:26 8/02/16 23:54 4.9 Loud Vehicle Passby 8/02/16 23:59 8/03/16 00:00 1.4 Loud Vehicle Passby 8/02/16 23:59 8/03/16 00:07 2.4 Loud Vehicle Passby 8/03/16 00:27 8/03/16 00:52 3.1 Loud Vehicle Passby 8/03/16 00:59 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:20 8/03/16 01:20 0.6 Loud Vehicle Passby 8/03/16 01:20 8/03/16 02:07 18.1 Train Passby 8/03/16 02:16 8/03/16 02:33 3.4 Loud Vehicle Passby 8/03/16 03:20 8/03/16 03:20 0.1	8/02/16 22:45	8/02/16 22:48	2.6	Loud Vehicle Passby
8/02/16 23:09 8/02/16 23:13 3.6 Loud Vehicle Passby 8/02/16 23:15 8/02/16 23:15 0.1 Loud Vehicle Passby 8/02/16 23:24 8/02/16 23:26 2.1 Loud Vehicle Passby 8/02/16 23:28 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:20 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:30 8/02/16 23:54 4.9 Loud Vehicle Passby 8/02/16 23:59 8/03/16 00:00 1.4 Loud Vehicle Passby 8/02/16 23:59 8/03/16 00:01 1.9 Loud Vehicle Passby 8/02/16 00:14 8/03/16 00:29 2.9 Loud Vehicle Passby 8/03/16 00:27 8/03/16 00:52 3.1 Loud Vehicle Passby 8/03/16 00:35 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:20 8/03/16 01:07 1.4 Loud Vehicle Passby 8/03/16 01:20 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:43 3.4 Loud Vehicle Passby 8/03/16 02:49 8/03/16 03:20 0.1	8/02/16 22:55	8/02/16 22:57	1.4	Loud Vehicle Passby
8/02/16 23:15 8/02/16 23:15 0.1 Loud Vehicle Passby 8/02/16 23:16 8/02/16 23:26 2.1 Loud Vehicle Passby 8/02/16 23:28 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:20 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:30 8/02/16 23:54 4.9 Loud Vehicle Passby 8/02/16 23:59 8/03/16 00:00 1.4 Loud Vehicle Passby 8/02/16 23:59 8/03/16 00:15 1.9 Loud Vehicle Passby 8/03/16 00:27 8/03/16 00:29 2.9 Loud Vehicle Passby 8/03/16 00:35 8/03/16 00:52 3.1 Loud Vehicle Passby 8/03/16 00:49 8/03/16 00:52 3.1 Loud Vehicle Passby 8/03/16 00:59 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:20 8/03/16 01:07 1.4 Loud Vehicle Passby 8/03/16 01:20 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:31 3.4 Loud Vehicle Passby 8/03/16 03:20 8/03/16 03:20 0.1	8/02/16 23:09	8/02/16 23:09	0.1	Loud Vehicle Passby
8/02/16 23:16 8/02/16 23:28 2.1 Loud Vehicle Passby 8/02/16 23:24 8/02/16 23:26 2.1 Loud Vehicle Passby 8/02/16 23:28 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:20 8/02/16 23:41 1.9 Loud Vehicle Passby 8/02/16 23:50 8/02/16 23:54 4.9 Loud Vehicle Passby 8/02/16 23:59 8/03/16 00:00 1.4 Loud Vehicle Passby 8/03/16 00:14 8/03/16 00:15 1.9 Loud Vehicle Passby 8/03/16 00:27 8/03/16 00:37 2.4 Loud Vehicle Passby 8/03/16 00:35 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 00:59 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:00 8/03/16 01:07 1.4 Loud Vehicle Passby 8/03/16 01:01 8/03/16 02:30 14.6 Train Passby 8/03/16 02:16 8/03/16 02:30 14.6 Train Passby 8/03/16 02:24 8/03/16 02:30 13.1 Loud Vehicle Passby 8/03/16 02:25 8/03/16 03:20 0.1 Train	8/02/16 23:09	8/02/16 23:13	3.6	Loud Vehicle Passby
8/02/16 23:24 8/02/16 23:26 2.1 Loud Vehicle Passby 8/02/16 23:28 8/02/16 23:31 2.9 Loud Vehicle Passby 8/02/16 23:40 8/02/16 23:41 1.9 Loud Vehicle Passby 8/02/16 23:50 8/02/16 23:54 4.9 Loud Vehicle Passby 8/02/16 23:59 8/03/16 00:00 1.4 Loud Vehicle Passby 8/03/16 00:14 8/03/16 00:27 2.9 Loud Vehicle Passby 8/03/16 00:27 8/03/16 00:29 2.9 Loud Vehicle Passby 8/03/16 00:35 8/03/16 00:29 2.9 Loud Vehicle Passby 8/03/16 00:59 8/03/16 00:20 3.1 Loud Vehicle Passby 8/03/16 00:59 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:00 8/03/16 01:07 1.4 Loud Vehicle Passby 8/03/16 01:01 8/03/16 02:30 14.6 Train Passby 8/03/16 02:16 8/03/16 02:30 14.6 Train Passby 8/03/16 02:24 8/03/16 02:30 13.1 Loud Vehicle Passby 8/03/16 02:25 8/03/16 03:20 0.1 Train	8/02/16 23:15	8/02/16 23:15	0.1	Loud Vehicle Passby
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8/02/16 23:40 8/02/16 23:41 1.9 Loud Vehicle Passby 8/02/16 23:50 8/02/16 23:54 4.9 Loud Vehicle Passby 8/02/16 23:59 8/03/16 00:00 1.4 Loud Vehicle Passby 8/03/16 00:14 8/03/16 00:27 1.9 Loud Vehicle Passby 8/03/16 00:27 8/03/16 00:37 2.4 Loud Vehicle Passby 8/03/16 00:35 8/03/16 00:52 3.1 Loud Vehicle Passby 8/03/16 00:59 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:50 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:02 8/03/16 01:02 0.6 Loud Vehicle Passby 8/03/16 01:20 8/03/16 01:20 0.6 Loud Vehicle Passby 8/03/16 01:20 8/03/16 02:07 18.1 Train Passby 8/03/16 02:42 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:21 1.4 Train Passby 8/03/16 03:20 8/03/16 03:27 2.1 Train Passby	8/02/16 23:24	8/02/16 23:26	2.1	Loud Vehicle Passby
8/02/16 23:50 8/02/16 23:54 4.9 Loud Vehicle Passby 8/02/16 23:59 8/03/16 00:00 1.4 Loud Vehicle Passby 8/03/16 00:14 8/03/16 00:29 2.9 Loud Vehicle Passby 8/03/16 00:27 8/03/16 00:37 2.4 Loud Vehicle Passby 8/03/16 00:35 8/03/16 00:52 3.1 Loud Vehicle Passby 8/03/16 00:49 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:59 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:06 8/03/16 01:07 1.4 Loud Vehicle Passby 8/03/16 01:20 8/03/16 01:20 0.6 Loud Vehicle Passby 8/03/16 01:20 8/03/16 02:07 18.1 Train Passby 8/03/16 02:42 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:53 3.4 Loud Vehicle Passby 8/03/16 02:42 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 0.1 Train Passby 8/03/16 03:27 8/03/16 03:20 8/03/16 03:27 2.1 Train Passby	8/02/16 23:28	8/02/16 23:31	2.9	Loud Vehicle Passby
8/02/16 23:59 8/03/16 00:00 1.4 Loud Vehicle Passby 8/03/16 00:14 8/03/16 00:29 2.9 Loud Vehicle Passby 8/03/16 00:27 8/03/16 00:37 2.4 Loud Vehicle Passby 8/03/16 00:35 8/03/16 00:52 3.1 Loud Vehicle Passby 8/03/16 00:49 8/03/16 00:52 3.1 Loud Vehicle Passby 8/03/16 00:59 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:06 8/03/16 01:07 1.4 Loud Vehicle Passby 8/03/16 01:08 8/03/16 01:07 1.4 Loud Vehicle Passby 8/03/16 01:20 8/03/16 02:07 18.1 Train Passby 8/03/16 02:41 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:53 3.4 Loud Vehicle Passby 8/03/16 02:42 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:21 1.4 Train Passby 8/03/16 03:21 1.4 Train Passby 8/03/16 03:27 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby	8/02/16 23:40	8/02/16 23:41	1.9	Loud Vehicle Passby
8/03/16 00:14 8/03/16 00:15 1.9 Loud Vehicle Passby 8/03/16 00:27 8/03/16 00:29 2.9 Loud Vehicle Passby 8/03/16 00:35 8/03/16 00:37 2.4 Loud Vehicle Passby 8/03/16 00:35 8/03/16 00:52 3.1 Loud Vehicle Passby 8/03/16 00:59 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:20 8/03/16 01:07 1.4 Loud Vehicle Passby 8/03/16 01:20 8/03/16 01:20 0.6 Loud Vehicle Passby 8/03/16 01:20 8/03/16 02:07 18.1 Train Passby 8/03/16 02:46 3.4 Loud Vehicle Passby 8/03/16 02:47 8/03/16 02:30 14.6 Train Passby 8/03/16 02:48 8/03/16 02:53 3.4 Loud Vehicle Passby 8/03/16 02:20 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:21 1.4 Train Passby 8/03/16 03:20 8/03/16 03:27 2.1 Train Passby 8/03/16 03:25 8/03/16 03:58 1.4 Train Whistle 8/03/16	8/02/16 23:50	8/02/16 23:54	4.9	Loud Vehicle Passby
8/03/16 00:27 8/03/16 00:29 2.9 Loud Vehicle Passby 8/03/16 00:35 8/03/16 00:37 2.4 Loud Vehicle Passby 8/03/16 00:49 8/03/16 00:52 3.1 Loud Vehicle Passby 8/03/16 00:59 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:06 8/03/16 01:07 1.4 Loud Vehicle Passby 8/03/16 01:20 8/03/16 01:20 0.6 Loud Vehicle Passby 8/03/16 01:49 8/03/16 02:07 18.1 Train Passby 8/03/16 02:41 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:46 3.4 Loud Vehicle Passby 8/03/16 02:49 8/03/16 02:53 3.4 Loud Vehicle Passby 8/03/16 02:49 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:21 1.4 Train Passby 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:25 8/03/16 03:44 1.9 Loud Vehicle Passby 8/03/16 03:56 0.1 Train Whistle 8/03/16 03:58 <td>8/02/16 23:59</td> <td>8/03/16 00:00</td> <td>1.4</td> <td>Loud Vehicle Passby</td>	8/02/16 23:59	8/03/16 00:00	1.4	Loud Vehicle Passby
8/03/16 00:35 8/03/16 00:37 2.4 Loud Vehicle Passby 8/03/16 00:49 8/03/16 00:52 3.1 Loud Vehicle Passby 8/03/16 00:59 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:06 8/03/16 01:07 1.4 Loud Vehicle Passby 8/03/16 01:20 8/03/16 01:20 0.6 Loud Vehicle Passby 8/03/16 01:20 8/03/16 02:07 18.1 Train Passby 8/03/16 02:16 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:53 3.4 Loud Vehicle Passby 8/03/16 02:56 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:27 2.1 Train Passby 8/03/16 03:55 8/03/16 03:56 0.1 Train Passby 8/03/16 03:56 8/03/16 03:58 1.4 Train Whistle 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle	8/03/16 00:14	8/03/16 00:15	1.9	Loud Vehicle Passby
8/03/16 00:49 8/03/16 00:52 3.1 Loud Vehicle Passby 8/03/16 00:59 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:06 8/03/16 01:07 1.4 Loud Vehicle Passby 8/03/16 01:20 8/03/16 01:20 0.6 Loud Vehicle Passby 8/03/16 01:49 8/03/16 02:07 18.1 Train Passby 8/03/16 02:16 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:53 3.4 Loud Vehicle Passby 8/03/16 02:56 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:27 2.1 Train Passby 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:56 0.1 Train Passby 8/03/16 03:56 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 04:03 8/03/16 04:20 15.4 Loud Vehicle Passby	8/03/16 00:27	8/03/16 00:29	2.9	Loud Vehicle Passby
8/03/16 00:59 8/03/16 01:02 2.6 Loud Vehicle Passby 8/03/16 01:06 8/03/16 01:07 1.4 Loud Vehicle Passby 8/03/16 01:20 8/03/16 01:20 0.6 Loud Vehicle Passby 8/03/16 01:49 8/03/16 02:07 18.1 Train Passby 8/03/16 02:16 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:46 3.4 Loud Vehicle Passby 8/03/16 02:49 8/03/16 02:53 3.4 Loud Vehicle Passby 8/03/16 02:56 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:27 2.1 Train Passby 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:25 8/03/16 03:58 1.4 Train Whistle 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 04:03 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:22 15.4 Loud Vehicle Passby	8/03/16 00:35	8/03/16 00:37	2.4	Loud Vehicle Passby
8/03/16 01:06 8/03/16 01:07 1.4 Loud Vehicle Passby 8/03/16 01:20 8/03/16 01:20 0.6 Loud Vehicle Passby 8/03/16 01:49 8/03/16 02:07 18.1 Train Passby 8/03/16 02:16 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:46 3.4 Loud Vehicle Passby 8/03/16 02:49 8/03/16 02:53 3.4 Loud Vehicle Passby 8/03/16 02:56 8/03/16 03:09 13.1 Loud Vehicle Passby 8/03/16 03:20 8/03/16 03:21 1.4 Train Passby 8/03/16 03:20 8/03/16 03:27 2.1 Train Passby 8/03/16 03:25 8/03/16 03:44 1.9 Loud Vehicle Passby 8/03/16 03:56 8/03/16 03:56 0.1 Train Passby 8/03/16 03:57 8/03/16 03:58 1.4 Train Passby 8/03/16 04:00 8/03/16 04:04 4.1 Train Whistle 8/03/16 04:05 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby	8/03/16 00:49	8/03/16 00:52	3.1	Loud Vehicle Passby
8/03/16 01:20 8/03/16 01:20 0.6 Loud Vehicle Passby 8/03/16 01:49 8/03/16 02:07 18.1 Train Passby 8/03/16 02:16 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:46 3.4 Loud Vehicle Passby 8/03/16 02:42 8/03/16 02:53 3.4 Loud Vehicle Passby 8/03/16 02:56 8/03/16 03:09 13.1 Loud Vehicle Passby 8/03/16 03:20 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:21 1.4 Train Passby 8/03/16 03:20 8/03/16 03:27 2.1 Train Passby 8/03/16 03:25 8/03/16 03:56 0.1 Train Passby 8/03/16 03:56 8/03/16 03:56 0.1 Train Passby 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 04:00 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:28 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby	8/03/16 00:59	8/03/16 01:02	2.6	Loud Vehicle Passby
8/03/16 01:49 8/03/16 02:07 18.1 Train Passby 8/03/16 02:16 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:46 3.4 Loud Vehicle Passby 8/03/16 02:49 8/03/16 02:53 3.4 Loud Vehicle Passby 8/03/16 02:56 8/03/16 03:09 13.1 Loud Vehicle Passby 8/03/16 03:20 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:21 1.4 Train Passby 8/03/16 03:20 8/03/16 03:27 2.1 Train Passby 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:56 8/03/16 03:56 0.1 Train Whistle 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 04:00 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:28 8/03/16 04:36 2.1 Loud Vehicle Passby	8/03/16 01:06	8/03/16 01:07	1.4	Loud Vehicle Passby
8/03/16 02:16 8/03/16 02:30 14.6 Train Passby 8/03/16 02:42 8/03/16 02:46 3.4 Loud Vehicle Passby 8/03/16 02:49 8/03/16 02:53 3.4 Loud Vehicle Passby 8/03/16 02:49 8/03/16 03:09 13.1 Loud Vehicle Passby 8/03/16 02:56 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:21 1.4 Train Passby 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:42 8/03/16 03:44 1.9 Loud Vehicle Passby 8/03/16 03:56 8/03/16 03:56 0.1 Train Passby 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 04:00 8/03/16 04:04 4.1 Train Passby 8/03/16 04:05 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby	8/03/16 01:20	8/03/16 01:20	0.6	Loud Vehicle Passby
8/03/16 02:42 8/03/16 02:46 3.4 Loud Vehicle Passby 8/03/16 02:49 8/03/16 02:53 3.4 Loud Vehicle Passby 8/03/16 02:56 8/03/16 03:09 13.1 Loud Vehicle Passby 8/03/16 03:20 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:21 1.4 Train Passby 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:56 8/03/16 03:58 1.4 Train Whistle 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 04:00 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:43 8/03/16 04:44 2.4 Loud Vehicle Passby	8/03/16 01:49	8/03/16 02:07	18.1	Train Passby
8/03/16 02:49 8/03/16 02:53 3.4 Loud Vehicle Passby 8/03/16 02:56 8/03/16 03:09 13.1 Loud Vehicle Passby 8/03/16 03:20 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:21 1.4 Train Passby 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:25 8/03/16 03:26 0.1 Train Passby 8/03/16 03:56 8/03/16 03:58 1.4 Train Whistle 8/03/16 03:57 8/03/16 04:04 4.1 Train Passby 8/03/16 04:05 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby <t< td=""><td>8/03/16 02:16</td><td>8/03/16 02:30</td><td>14.6</td><td>Train Passby</td></t<>	8/03/16 02:16	8/03/16 02:30	14.6	Train Passby
8/03/16 02:56 8/03/16 03:09 13.1 Loud Vehicle Passby 8/03/16 03:20 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:21 1.4 Train Passby 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:42 8/03/16 03:44 1.9 Loud Vehicle Passby 8/03/16 03:56 8/03/16 03:56 0.1 Train Passby 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 04:00 8/03/16 04:04 4.1 Train Passby 8/03/16 04:05 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:44 8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 02:42	8/03/16 02:46	3.4	Loud Vehicle Passby
8/03/16 03:20 8/03/16 03:20 0.1 Train Passby 8/03/16 03:20 8/03/16 03:21 1.4 Train Passby 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:25 8/03/16 03:44 1.9 Loud Vehicle Passby 8/03/16 03:56 8/03/16 03:56 0.1 Train Whistle 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 04:00 8/03/16 04:04 4.1 Train Passby 8/03/16 04:05 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 02:49	8/03/16 02:53	3.4	Loud Vehicle Passby
8/03/16 03:20 8/03/16 03:21 1.4 Train Passby 8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:42 8/03/16 03:44 1.9 Loud Vehicle Passby 8/03/16 03:56 8/03/16 03:56 0.1 Train Whistle 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 04:00 8/03/16 04:04 4.1 Train Passby 8/03/16 04:05 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 02:56	8/03/16 03:09	13.1	Loud Vehicle Passby
8/03/16 03:25 8/03/16 03:27 2.1 Train Passby 8/03/16 03:42 8/03/16 03:44 1.9 Loud Vehicle Passby 8/03/16 03:56 8/03/16 03:56 0.1 Train Whistle 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 04:00 8/03/16 04:04 4.1 Train Passby 8/03/16 04:05 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 03:20	8/03/16 03:20	0.1	Train Passby
8/03/16 03:42 8/03/16 03:44 1.9 Loud Vehicle Passby 8/03/16 03:56 8/03/16 03:56 0.1 Train Whistle 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 04:00 8/03/16 04:04 4.1 Train Passby 8/03/16 04:05 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 03:20	8/03/16 03:21	1.4	Train Passby
8/03/16 03:56 8/03/16 03:56 0.1 Train Whistle 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 04:00 8/03/16 04:04 4.1 Train Passby 8/03/16 04:05 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 03:25	8/03/16 03:27	2.1	Train Passby
8/03/16 03:57 8/03/16 03:58 1.4 Train Whistle 8/03/16 04:00 8/03/16 04:04 4.1 Train Passby 8/03/16 04:05 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 03:42	8/03/16 03:44	1.9	Loud Vehicle Passby
8/03/16 04:00 8/03/16 04:04 4.1 Train Passby 8/03/16 04:05 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 03:56	8/03/16 03:56	0.1	Train Whistle
8/03/16 04:05 8/03/16 04:20 15.4 Loud Vehicle Passby 8/03/16 04:21 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 03:57	8/03/16 03:58	1.4	Train Whistle
8/03/16 04:21 8/03/16 04:27 6.1 Train Passby 8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 04:00	8/03/16 04:04	4.1	Train Passby
8/03/16 04:28 8/03/16 04:32 4.6 Loud Vehicle Passby 8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 04:05	8/03/16 04:20	15.4	Loud Vehicle Passby
8/03/16 04:34 8/03/16 04:36 2.1 Loud Vehicle Passby 8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 04:21	8/03/16 04:27	6.1	Train Passby
8/03/16 04:41 8/03/16 04:44 2.4 Loud Vehicle Passby 8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 04:28	8/03/16 04:32	4.6	Loud Vehicle Passby
8/03/16 04:48 8/03/16 04:49 1.4 Train Passby	8/03/16 04:34	8/03/16 04:36	2.1	Loud Vehicle Passby
	8/03/16 04:41	8/03/16 04:44	2.4	Loud Vehicle Passby
8/03/16 05:03 8/03/16 05:55 51.9 Heavy Traffic, Morning Chorus	8/03/16 04:48	8/03/16 04:49	1.4	Train Passby
	8/03/16 05:03	8/03/16 05:55	51.9	Heavy Traffic, Morning Chorus



Data Removal Noise Monitoring Location #12 (Second Monitoring Period) Cont.

Start Time	End Time	Duration (min)	Reason
8/03/16 05:56	8/03/16 06:59	63.9	Heavy Traffic, Morning Chorus
8/03/16 22:01	8/03/16 22:04	2.8	Aircraft Flyover
8/03/16 22:08	8/03/16 22:10	2.5	Loud Vehicle Passby
8/03/16 22:14	8/03/16 22:20	5.3	Loud Vehicle Passby
8/03/16 22:54	8/03/16 22:56	2.5	Train Passby
8/03/16 23:03	8/03/16 23:05	2.3	Train Whistle
8/03/16 23:10	8/03/16 23:11	1.5	Train Whistle
8/03/16 23:19	8/03/16 23:21	2.5	Train Passby
8/04/16 00:06	8/04/16 00:08	1.8	Train Passby
8/04/16 00:18	8/04/16 00:38	19.8	Train Passby
8/04/16 00:47	8/04/16 00:47	0.8	Loud Vehicle Passby
8/04/16 01:03	8/04/16 01:04	1.0	Train Whistle
8/04/16 01:11	8/04/16 01:12	1.0	Loud Vehicle Passby
8/04/16 01:16	8/04/16 01:19	3.5	Monitor Check
8/04/16 01:26	8/04/16 01:34	7.5	Train Passby
8/04/16 01:35	8/04/16 01:36	1.5	Train Whistle
8/04/16 01:41	8/04/16 01:56	15.3	Train Passby
8/04/16 02:25	8/04/16 02:26	1.0	Train Whistle
8/04/16 02:29	8/04/16 02:31	2.3	Loud Vehicle Passby
8/04/16 02:41	8/04/16 02:44	2.5	Train Passby
8/04/16 03:16	8/04/16 03:18	1.8	Loud Vehicle Passby
8/04/16 03:22	8/04/16 03:24	1.8	Train Whistle
8/04/16 03:28	8/04/16 03:28	0.3	Train Passby
8/04/16 03:28	8/04/16 03:31	3.0	Train Passby
8/04/16 03:33	8/04/16 03:36	3.5	Train Passby
8/04/16 03:40	8/04/16 03:46	5.5	Train Passby
8/04/16 03:51	8/04/16 03:55	3.8	Train Passby
8/04/16 04:07	8/04/16 04:19	12.0	Train Passby
8/04/16 04:20	8/04/16 04:21	1.3	Train Whistle
8/04/16 04:22	8/04/16 04:26	4.0	Loud Vehicle Passby
8/04/16 04:27	8/04/16 04:30	3.8	Train Whistle
8/04/16 04:38	8/04/16 04:42	3.5	Loud Vehicle Passby
8/04/16 04:44	8/04/16 04:45	1.5	Train Whistle
8/04/16 04:52	8/04/16 04:55	2.3	Loud Vehicle Passby
8/04/16 04:58	8/04/16 04:59	1.0	Train Whistle
8/04/16 04:59	8/04/16 05:00	1.0	Train Whistle
8/04/16 05:03	8/04/16 05:04	1.3	Train Whistle
8/04/16 05:08	8/04/16 05:09	1.0	Train Whistle



Data Removal Noise Monitoring Lo	ocation #12 (Second	Monitoring Period) Cont.
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Start Time	End Time	Duration (min)	Reason
8/04/16 05:10	8/04/16 05:24	13.5	Train Passby
8/04/16 05:24	8/04/16 05:28	3.5	Loud Vehicle Passby
8/04/16 05:28	8/04/16 05:30	1.8	Excessive Bird Noise
8/04/16 05:30	8/04/16 05:46	16.0	Excessive Bird Noise
8/04/16 05:46	8/04/16 07:02	75.8	Morning Chorus
	Total Night #1	262	
	Total Night #2	164	
	Total Data	426	



Start Time End Time Duration (min) Reason 8/02/16 22:04 8/02/16 22:05 1.0 Abnormal 8/02/16 22:47 8/02/16 22:48 1.7 Loud Vehicle Passby 8/02/16 22:47 8/02/16 22:57 2.2 Loud Vehicle Passby 8/02/16 22:54 8/02/16 22:57 0.5 Abnormal 8/02/16 23:03 8/02/16 23:57 0.5 Abnormal 8/02/16 23:04 8/02/16 23:52 1.5 Loud Vehicle Passby 8/02/16 23:03 8/02/16 23:12 1.5 Aircraft Flyover 8/02/16 23:41 8/02/16 23:42 0.7 Abnormal (Gun fire) 8/02/16 23:42 8/02/16 23:44 0.7 Loud Vehicle Passby 8/02/16 23:44 8/02/16 23:44 1.2 Abnormal (Gun fire) 8/02/16 23:48 8/02/16 23:46 1.0 Abnormal (Gun fire) 8/02/16 23:44 8/02/16 23:46 1.0 Abnormal (Gun fire) 8/02/16 23:45 8/02/16 23:46 1.0 Abnormal (Gun fire) 8/02/16 23:46 8/02/16 23:46 1.0 Abnormal (Gun fire) <	Data Kemovai Noise Montoring Location #15				
8/02/16 22:17 8/02/16 22:20 3.0 Loud Vehicle Passby 8/02/16 22:47 8/02/16 22:51 2.2 Loud Vehicle Passby 8/02/16 22:49 8/02/16 22:51 2.2 Loud Vehicle Passby 8/02/16 22:54 8/02/16 22:57 0.5 Abnormal 8/02/16 23:33 8/02/16 23:41 2.0 Loud Vehicle Passby 8/02/16 23:18 8/02/16 23:19 1.0 Abnormal (Sounds like gunfire) 8/02/16 23:42 8/02/16 23:41 2.0 Alnormal (Sounds like gunfire) 8/02/16 23:43 8/02/16 23:44 0.7 Abnormal (Gun fire) 8/02/16 23:44 8/02/16 23:44 0.7 Loud Vehicle Passby 8/02/16 23:48 8/02/16 23:49 1.2 Abnormal (Gun fire) 8/02/16 00:28 8/03/16 00:24 1.7 Abnormal (Gun fire) 8/02/16 00:31 8/03/16 00:41 1.7<	Start Time	End Time	Duration (min)	Reason	
8/02/16 22:47 8/02/16 22:48 1.7 Loud Vehicle Passby 8/02/16 22:49 8/02/16 22:51 2.2 Loud Vehicle Passby 8/02/16 22:54 8/02/16 22:57 0.5 Abnormal 8/02/16 22:56 8/02/16 22:57 0.5 Abnormal 8/02/16 23:11 8/02/16 23:12 1.5 Aircraft Flyover 8/02/16 23:18 8/02/16 23:26 0.7 Abnormal (Gun fire) 8/02/16 23:26 8/02/16 23:41 2.0 Aircraft Flyover 8/02/16 23:40 8/02/16 23:41 2.0 Aircraft Flyover 8/02/16 23:41 8/02/16 23:42 0.7 Loud Vehicle Passby 8/02/16 23:42 8/02/16 23:44 0.7 Loud Vehicle Passby 8/02/16 23:44 8/02/16 23:49 1.2 Abnormal (Gun fire) 8/03/16 00:28 8/03/16 00:40 1.7 Abnormal (Gun fire) 8/03/16 00:10 8/03/16 00:11 1.0 Abnormal (Gun fire) 8/03/16 00:13 8/03/16 00:22 0.7 Abnormal (Gun fire) 8/03/16 00:24 0.7 Abnormal (Gun fire)	8/02/16 22:04	8/02/16 22:05	1.0	Abnormal	
8/02/16 22:49 8/02/16 22:51 2.2 Loud Vehicle Passby 8/02/16 22:54 8/02/16 22:55 1.5 Loud Vehicle Passby 8/02/16 22:56 8/02/16 22:57 0.5 Abnormal 8/02/16 23:03 8/02/16 23:12 1.5 Aircraft Flyover 8/02/16 23:18 8/02/16 23:19 1.0 Abnormal (Sounds like gunfire) 8/02/16 23:26 8/02/16 23:26 0.7 Abnormal (Gun fire) 8/02/16 23:40 8/02/16 23:41 2.0 Aircraft Flyover 8/02/16 23:44 8/02/16 23:44 0.7 Loud Vehicle Passby 8/02/16 23:48 8/02/16 23:49 1.2 Abnormal (Gun fire) 8/02/16 02:34 8/02/16 00:40 1.7 Abnormal (Gun fire) 8/03/16 00:02 8/03/16 00:41 1.0 Abnormal (Gun fire) 8/03/16 00:13 8/03/16 00:14 0.7 Abnormal (Gun fire) 8/03/16 00:13 8/03/16 00:22 0.7 Abnormal (Gun fire) 8/03/16 00:13 8/03/16 00:24 0.7 Abnormal (Gun fire) 8/03/16 00:25 8/03/16 00:26 1.2	8/02/16 22:17	8/02/16 22:20	3.0	Loud Vehicle Passby	
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8/03/16 00:40 8/03/16 00:41 1.2 Abnormal (Gun fire) 8/03/16 00:47 8/03/16 00:48 2.0 Abnormal (Gun fire) 8/03/16 00:50 8/03/16 00:51 1.5 Abnormal (Gun fire) 8/03/16 00:54 8/03/16 00:56 1.7 Abnormal (Gun fire) 8/03/16 01:02 8/03/16 01:03 1.7 Abnormal (Gun fire) 8/03/16 01:10 8/03/16 01:11 1.0 Abnormal (Gun fire) 8/03/16 01:12 8/03/16 01:14 1.0 Abnormal (Gun fire) 8/03/16 01:14 8/03/16 01:14 1.0 Abnormal (Gun fire) 8/03/16 01:17 8/03/16 01:18 1.0 Abnormal (Gun fire) 8/03/16 01:22 8/03/16 01:23 1.0 Abnormal (Gun fire) 8/03/16 01:25 8/03/16 01:33 2.0 Abnormal (Gun fire) 8/03/16 01:31 8/03/16 01:33 2.0 Abnormal (Gun fire) 8/03/16 01:38 8/03/16 01:41 2.5 Abnormal (Gun fire) 8/03/16 01:47 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:57 8/03/16 01:55 1.2	8/03/16 00:25	8/03/16 00:26	1.2	Abnormal (Gun fire)	
8/03/16 00:47 8/03/16 00:48 2.0 Abnormal (Gun fire) 8/03/16 00:50 8/03/16 00:51 1.5 Abnormal (Gun fire) 8/03/16 00:54 8/03/16 00:56 1.7 Abnormal (Gun fire) 8/03/16 01:02 8/03/16 01:03 1.7 Abnormal (Gun fire) 8/03/16 01:10 8/03/16 01:11 1.0 Abnormal (Gun fire) 8/03/16 01:11 8/03/16 01:14 1.0 Abnormal (Gun fire) 8/03/16 01:14 8/03/16 01:14 1.0 Abnormal (Gun fire) 8/03/16 01:12 8/03/16 01:18 1.0 Abnormal (Gun fire) 8/03/16 01:22 8/03/16 01:23 1.0 Abnormal (Gun fire) 8/03/16 01:25 8/03/16 01:33 2.0 Abnormal (Gun fire) 8/03/16 01:31 8/03/16 01:41 2.5 Abnormal (Gun fire) 8/03/16 01:38 8/03/16 01:48 1.0 Abnormal (Gun fire) 8/03/16 01:47 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:54 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:57 8/03/16 01:58 1.0	8/03/16 00:33	8/03/16 00:33	1.0	Abnormal (Gun fire)	
8/03/16 00:50 8/03/16 00:51 1.5 Abnormal (Gun fire) 8/03/16 00:54 8/03/16 00:56 1.7 Abnormal (Gun fire) 8/03/16 01:02 8/03/16 01:03 1.7 Abnormal (Gun fire) 8/03/16 01:02 8/03/16 01:13 1.7 Abnormal (Gun fire) 8/03/16 01:10 8/03/16 01:11 1.0 Abnormal (Gun fire) 8/03/16 01:14 8/03/16 01:14 1.0 Abnormal (Gun fire) 8/03/16 01:17 8/03/16 01:18 1.0 Abnormal (Gun fire) 8/03/16 01:22 8/03/16 01:23 1.0 Abnormal (Gun fire) 8/03/16 01:25 8/03/16 01:26 1.7 Abnormal (Gun fire) 8/03/16 01:22 8/03/16 01:23 1.0 Abnormal (Gun fire) 8/03/16 01:25 8/03/16 01:33 2.0 Abnormal (Gun fire) 8/03/16 01:31 8/03/16 01:41 2.5 Abnormal (Gun fire) 8/03/16 01:47 8/03/16 01:48 1.0 Abnormal (Gun fire) 8/03/16 01:54 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:57 8/03/16 01:58 1.0	8/03/16 00:40	8/03/16 00:41	1.2	Abnormal (Gun fire)	
8/03/16 00:54 8/03/16 00:56 1.7 Abnormal (Gun fire) 8/03/16 01:02 8/03/16 01:03 1.7 Abnormal (Gun fire) 8/03/16 01:02 8/03/16 01:11 1.0 Abnormal (Gun fire) 8/03/16 01:10 8/03/16 01:11 1.0 Abnormal (Gun fire) 8/03/16 01:14 8/03/16 01:14 1.0 Abnormal (Gun fire) 8/03/16 01:17 8/03/16 01:18 1.0 Abnormal (Gun fire) 8/03/16 01:22 8/03/16 01:23 1.0 Abnormal (Gun fire) 8/03/16 01:25 8/03/16 01:26 1.7 Abnormal (Gun fire) 8/03/16 01:25 8/03/16 01:33 2.0 Abnormal (Gun fire) 8/03/16 01:31 8/03/16 01:33 2.0 Abnormal (Gun fire) 8/03/16 01:38 8/03/16 01:41 2.5 Abnormal (Gun fire) 8/03/16 01:47 8/03/16 01:48 1.0 Abnormal (Gun fire) 8/03/16 01:54 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:57 8/03/16 01:58 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0	8/03/16 00:47	8/03/16 00:48	2.0	Abnormal (Gun fire)	
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8/03/16 01:10 8/03/16 01:11 1.0 Abnormal (Gun fire) 8/03/16 01:14 8/03/16 01:14 1.0 Abnormal (Gun fire) 8/03/16 01:17 8/03/16 01:18 1.0 Abnormal (Gun fire) 8/03/16 01:17 8/03/16 01:23 1.0 Abnormal (Gun fire) 8/03/16 01:22 8/03/16 01:23 1.0 Abnormal (Gun fire) 8/03/16 01:25 8/03/16 01:26 1.7 Abnormal (Gun fire) 8/03/16 01:31 8/03/16 01:33 2.0 Abnormal (Gun fire) 8/03/16 01:38 8/03/16 01:41 2.5 Abnormal (Gun fire) 8/03/16 01:47 8/03/16 01:48 1.0 Abnormal (Gun fire) 8/03/16 01:54 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:57 8/03/16 01:58 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:07 1.0 Abnormal (Gun fire)	8/03/16 00:54	8/03/16 00:56	1.7	Abnormal (Gun fire)	
8/03/16 01:14 8/03/16 01:14 1.0 Abnormal (Gun fire) 8/03/16 01:17 8/03/16 01:18 1.0 Abnormal (Gun fire) 8/03/16 01:22 8/03/16 01:23 1.0 Abnormal (Gun fire) 8/03/16 01:25 8/03/16 01:26 1.7 Abnormal (Gun fire) 8/03/16 01:31 8/03/16 01:33 2.0 Abnormal (Gun fire) 8/03/16 01:38 8/03/16 01:41 2.5 Abnormal (Gun fire) 8/03/16 01:47 8/03/16 01:48 1.0 Abnormal (Gun fire) 8/03/16 01:54 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:57 8/03/16 01:58 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:07 1.0 Abnormal (Gun fire)	8/03/16 01:02	8/03/16 01:03	1.7	Abnormal (Gun fire)	
8/03/16 01:17 8/03/16 01:18 1.0 Abnormal (Gun fire) 8/03/16 01:22 8/03/16 01:23 1.0 Abnormal (Gun fire) 8/03/16 01:25 8/03/16 01:23 1.0 Abnormal (Gun fire) 8/03/16 01:25 8/03/16 01:26 1.7 Abnormal (Gun fire) 8/03/16 01:31 8/03/16 01:33 2.0 Abnormal (Gun fire) 8/03/16 01:38 8/03/16 01:41 2.5 Abnormal (Gun fire) 8/03/16 01:47 8/03/16 01:48 1.0 Abnormal (Gun fire) 8/03/16 01:54 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:57 8/03/16 01:58 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:07 1.0 Abnormal (Gun fire)	8/03/16 01:10	8/03/16 01:11	1.0	Abnormal (Gun fire)	
8/03/16 01:22 8/03/16 01:23 1.0 Abnormal (Gun fire) 8/03/16 01:25 8/03/16 01:26 1.7 Abnormal (Gun fire) 8/03/16 01:31 8/03/16 01:33 2.0 Abnormal (Gun fire) 8/03/16 01:31 8/03/16 01:41 2.5 Abnormal (Gun fire) 8/03/16 01:47 8/03/16 01:41 2.5 Abnormal (Gun fire) 8/03/16 01:47 8/03/16 01:48 1.0 Abnormal (Gun fire) 8/03/16 01:54 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:57 8/03/16 01:58 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:07 1.0 Abnormal (Gun fire)	8/03/16 01:14	8/03/16 01:14	1.0	Abnormal (Gun fire)	
8/03/16 01:25 8/03/16 01:26 1.7 Abnormal (Gun fire) 8/03/16 01:31 8/03/16 01:33 2.0 Abnormal (Gun fire) 8/03/16 01:31 8/03/16 01:41 2.5 Abnormal (Gun fire) 8/03/16 01:38 8/03/16 01:41 2.5 Abnormal (Gun fire) 8/03/16 01:47 8/03/16 01:48 1.0 Abnormal (Gun fire) 8/03/16 01:54 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:57 8/03/16 01:58 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:06 8/03/16 02:07 1.0 Abnormal (Gun fire)	8/03/16 01:17	8/03/16 01:18	1.0	Abnormal (Gun fire)	
8/03/16 01:31 8/03/16 01:33 2.0 Abnormal (Gun fire) 8/03/16 01:38 8/03/16 01:41 2.5 Abnormal (Gun fire) 8/03/16 01:47 8/03/16 01:48 1.0 Abnormal (Gun fire) 8/03/16 01:54 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:57 8/03/16 01:58 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:07 1.0 Abnormal (Gun fire)	8/03/16 01:22	8/03/16 01:23	1.0	Abnormal (Gun fire)	
8/03/16 01:38 8/03/16 01:41 2.5 Abnormal (Gun fire) 8/03/16 01:47 8/03/16 01:48 1.0 Abnormal (Gun fire) 8/03/16 01:54 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:57 8/03/16 01:58 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:06 8/03/16 02:07 1.0 Abnormal (Gun fire)	8/03/16 01:25	8/03/16 01:26	1.7	Abnormal (Gun fire)	
8/03/16 01:47 8/03/16 01:48 1.0 Abnormal (Gun fire) 8/03/16 01:54 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:57 8/03/16 01:58 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:06 8/03/16 02:07 1.0 Abnormal (Gun fire)	8/03/16 01:31	8/03/16 01:33	2.0	Abnormal (Gun fire)	
8/03/16 01:54 8/03/16 01:55 1.2 Abnormal (Gun fire) 8/03/16 01:57 8/03/16 01:58 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:06 8/03/16 02:07 1.0 Abnormal (Gun fire)	8/03/16 01:38	8/03/16 01:41	2.5	Abnormal (Gun fire)	
8/03/16 01:57 8/03/16 01:58 1.0 Abnormal (Gun fire) 8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:06 8/03/16 02:07 1.0 Abnormal (Gun fire)	8/03/16 01:47	8/03/16 01:48	1.0	Abnormal (Gun fire)	
8/03/16 02:02 8/03/16 02:03 1.0 Abnormal (Gun fire) 8/03/16 02:06 8/03/16 02:07 1.0 Abnormal (Gun fire)	8/03/16 01:54	8/03/16 01:55	1.2	Abnormal (Gun fire)	
8/03/16 02:06 8/03/16 02:07 1.0 Abnormal (Gun fire)	8/03/16 01:57	8/03/16 01:58	1.0	Abnormal (Gun fire)	
	8/03/16 02:02	8/03/16 02:03	1.0	Abnormal (Gun fire)	
8/03/16 02:09 8/03/16 02:10 1.0 Abnormal (Gun fire)	8/03/16 02:06	8/03/16 02:07	1.0	Abnormal (Gun fire)	
	8/03/16 02:09	8/03/16 02:10	1.0	Abnormal (Gun fire)	



Data Kentovai Polise Monitoring Elocation #15 Cont.				
Start Time	End Time	Duration (min)	Reason	
8/03/16 02:13	8/03/16 02:13	0.7	Abnormal (Gun fire)	
8/03/16 02:17	8/03/16 02:18	1.0	Abnormal (Gun fire)	
8/03/16 02:24	8/03/16 02:25	1.0	Abnormal (Gun fire)	
8/03/16 02:32	8/03/16 02:33	1.2	Abnormal (Gun fire)	
8/03/16 02:34	8/03/16 02:35	0.7	Abnormal (Gun fire)	
8/03/16 02:36	8/03/16 02:40	3.7	Abnormal (Gun fire)	
8/03/16 02:47	8/03/16 02:47	1.0	Abnormal (Gun fire)	
8/03/16 03:01	8/03/16 03:02	1.2	Abnormal (Gun fire)	
8/03/16 03:08	8/03/16 03:10	2.2	Aircraft Flyover	
8/03/16 03:16	8/03/16 03:17	1.2	Abnormal (Gun fire)	
8/03/16 03:24	8/03/16 03:24	1.0	Abnormal (Gun fire)	
8/03/16 03:31	8/03/16 03:32	1.0	Abnormal (Gun fire)	
8/03/16 03:39	8/03/16 03:40	1.5	Abnormal (Gun fire)	
8/03/16 03:42	8/03/16 03:42	0.7	Abnormal (Gun fire)	
8/03/16 03:46	8/03/16 03:47	1.5	Abnormal (Gun fire)	
8/03/16 03:54	8/03/16 03:54	0.7	Abnormal (Gun fire)	
8/03/16 03:55	8/03/16 03:57	2.5	Loud Vehicle Passby	
8/03/16 03:59	8/03/16 04:02	3.2	Equipment on site	
8/03/16 04:08	8/03/16 04:09	1.2	Abnormal (Gun fire)	
8/03/16 04:15	8/03/16 04:17	1.5	Abnormal (Gun fire)	
8/03/16 04:23	8/03/16 04:24	1.0	Abnormal (Gun fire)	
8/03/16 04:26	8/03/16 04:26	0.2	Abnormal (Gun fire)	
8/03/16 04:26	8/03/16 04:27	0.5	Abnormal (Gun fire)	
8/03/16 04:28	8/03/16 04:30	2.2	Abnormal (Gun fire)	
8/03/16 04:31	8/03/16 04:31	1.0	Abnormal (Gun fire)	
8/03/16 04:33	8/03/16 04:34	1.5	Abnormal (Gun fire)	
8/03/16 04:34	8/03/16 04:36	2.0	Abnormal (Gun fire)	
8/03/16 04:38	8/03/16 04:39	1.5	Abnormal (Gun fire)	
8/03/16 04:43	8/03/16 04:43	1.0	Abnormal (Gun fire)	
8/03/16 04:45	8/03/16 04:47	2.0	Abnormal (Gun fire)	
8/03/16 04:53	8/03/16 04:54	1.5	Abnormal (Gun fire)	
8/03/16 05:08	8/03/16 05:08	0.7	Abnormal (Gun fire)	
8/03/16 05:13	8/03/16 05:17	3.5	Loud Vehicle Passby	
8/03/16 05:22	8/03/16 05:26	4.2	Abnormal (Gun fire)	
8/03/16 05:30	8/03/16 05:31	1.0	Abnormal (Gun fire)	
8/03/16 05:37	8/03/16 05:38	1.7	Abnormal (Gun fire)	
8/03/16 05:39	8/03/16 05:39	0.2	Abnormal (Gun fire)	
8/03/16 05:40	8/03/16 05:40	0.2	Abnormal (Gun fire)	
8/03/16 05:40	8/03/16 05:40	0.2	Abnormal (Gun fire)	
8/03/16 05:45	8/03/16 05:54	9.0	Loud Vehicle Passby	
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2000		Data Kemovai Noise Monitoring Location #15 Cont.				
Start Time	End Time	Duration (min)	Reason			
8/03/16 05:56	8/03/16 05:59	3.2	Abnormal (Gun fire)			
8/03/16 05:59	8/03/16 06:00	1.2	Abnormal (Gun fire)			
8/03/16 06:06	8/03/16 06:08	2.7	Loud Vehicle Passby			
8/03/16 06:09	8/03/16 06:44	34.5	Loud Vehicle Passby			
8/03/16 06:44	8/03/16 06:45	0.7	Abnormal (Gun fire)			
8/03/16 06:46	8/03/16 06:53	6.5	Loud Vehicle Passby			
8/03/16 06:59	8/03/16 07:00	1.2	Abnormal (Gun fire)			
8/03/16 22:01	8/03/16 22:03	1.5	Train Passby			
8/03/16 22:03	8/03/16 22:08	5.0	Loud Vehicle Passby			
8/03/16 22:13	8/03/16 22:14	1.0	Abnormal (Gun fire)			
8/03/16 22:21	8/03/16 22:22	1.0	Abnormal (Gun fire)			
8/03/16 22:28	8/03/16 22:28	0.2	Abnormal (Gun fire)			
8/03/16 22:29	8/03/16 22:29	0.5	Abnormal (Gun fire)			
8/03/16 22:36	8/03/16 22:37	1.5	Abnormal (Gun fire)			
8/03/16 22:43	8/03/16 22:46	2.7	Loud Vehicle Passby			
8/03/16 22:56	8/03/16 23:00	4.0	Loud Vehicle Passby			
8/03/16 23:05	8/03/16 23:08	3.0	Abnormal (Gun fire)			
8/03/16 23:13	8/03/16 23:14	1.0	Abnormal (Gun fire)			
8/03/16 23:18	8/03/16 23:21	3.7	Aircraft Flyover			
8/03/16 23:22	8/03/16 23:23	1.5	Abnormal (Gun fire)			
8/03/16 23:27	8/03/16 23:28	1.0	Abnormal (Gun fire)			
8/03/16 23:28	8/03/16 23:29	0.5	Abnormal (Gun fire)			
8/03/16 23:35	8/03/16 23:37	1.7	Abnormal (Gun fire)			
8/03/16 23:43	8/03/16 23:43	1.0	Abnormal (Gun fire)			
8/03/16 23:49	8/03/16 23:49	0.2	Abnormal (Gun fire)			
8/03/16 23:50	8/03/16 23:51	1.5	Abnormal (Gun fire)			
8/03/16 23:55	8/03/16 23:56	0.7	Abnormal (Gun fire)			
8/03/16 23:58	8/03/16 23:58	1.0	Abnormal (Gun fire)			
8/04/16 00:04	8/04/16 00:04	0.2	Abnormal (Gun fire)			
8/04/16 00:04	8/04/16 00:07	3.0	Abnormal (Gun fire)			
8/04/16 00:11	8/04/16 00:14	3.7	Loud Vehicle Passby			
8/04/16 00:16	8/04/16 00:18	2.0	Abnormal (Gun fire)			
8/04/16 00:20	8/04/16 00:21	1.0	Abnormal (Gun fire)			
8/04/16 00:27	8/04/16 00:28	1.0	Abnormal (Gun fire)			
8/04/16 00:35	8/04/16 00:35	1.0	Abnormal (Gun fire)			
8/04/16 00:42	8/04/16 00:43	1.2	Abnormal (Gun fire)			
8/04/16 01:06	8/04/16 01:09	2.5	Abnormal (Gun fire)			
8/04/16 01:34	8/04/16 01:36	2.2	Loud Vehicle Passby			
8/04/16 01:38	8/04/16 01:39	1.5	Loud Vehicle Passby			
8/04/16 01:43	8/04/16 01:45	2.7	Loud Vehicle Passby			



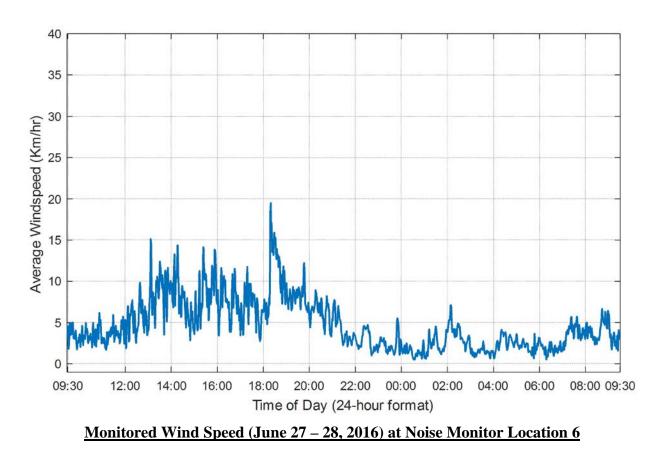
Start Time	End Time	Duration (min)	Reason
8/04/16 02:14	8/04/16 02:15	0.7	Abnormal (Gun fire)
8/04/16 02:17	8/04/16 02:22	4.7	Aircraft Flyover
8/04/16 02:51	8/04/16 02:53	1.7	Abnormal (Gun fire)
8/04/16 04:36	8/04/16 04:36	0.2	Abnormal (Gun fire)
8/04/16 04:37	8/04/16 04:37	1.0	Abnormal (Gun fire)
8/04/16 04:43	8/04/16 04:43	0.2	Abnormal (Gun fire)
8/04/16 04:44	8/04/16 04:44	0.2	Abnormal (Gun fire)
8/04/16 05:08	8/04/16 05:10	2.0	Loud Vehicle Passby
8/04/16 05:18	8/04/16 05:20	2.2	Aircraft Flyover
8/04/16 05:27	8/04/16 05:28	1.2	Abnormal (Gun fire)
8/04/16 05:39	8/04/16 05:44	5.2	Excessive Bird Noise
8/04/16 05:44	8/04/16 05:47	3.2	Loud Vehicle Passby
8/04/16 05:51	8/04/16 05:54	2.5	Excessive Bird Noise
8/04/16 05:56	8/04/16 05:58	1.7	Loud Vehicle Passby
8/04/16 05:58	8/04/16 06:00	2.0	Loud Vehicle Passby
8/04/16 06:02	8/04/16 06:02	0.2	Loud Vehicle Passby
8/04/16 06:02	8/04/16 06:03	1.2	Loud Vehicle Passby
8/04/16 06:08	8/04/16 06:50	42.2	Loud Vehicle Passby
8/04/16 06:52	8/04/16 06:54	2.2	Abnormal (Gun fire)
8/04/16 06:56	8/04/16 06:56	1.0	Abnormal (Gun fire)
8/04/16 06:59	8/04/16 07:00	2.0	Abnormal (Gun fire)
	Total Night #1	164	
	Total Night #2	132	
	Total Data	296	

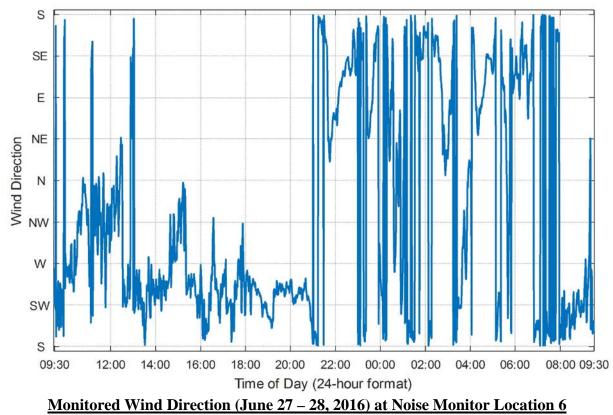


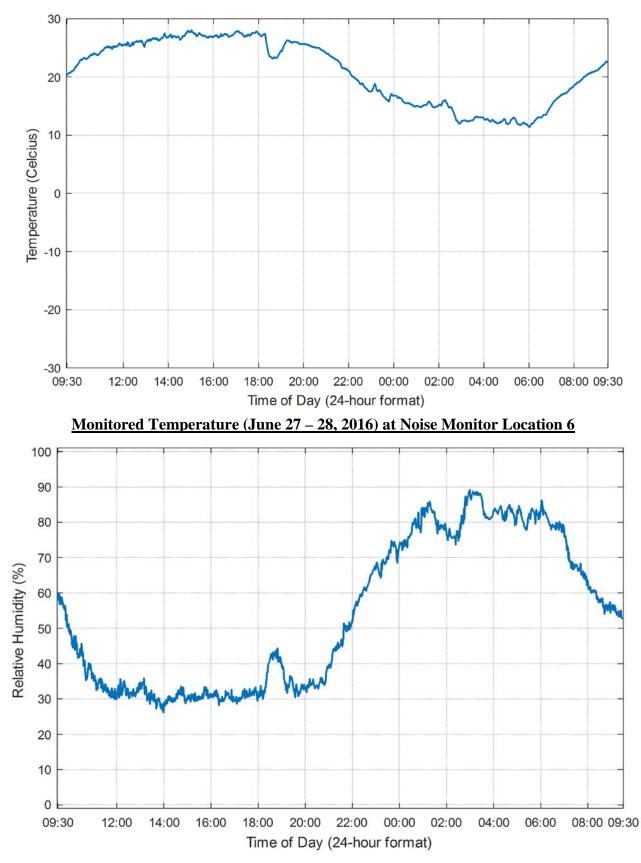
Appendix V WEATHER DATA

June 27 - 28, 2016 Weather Data



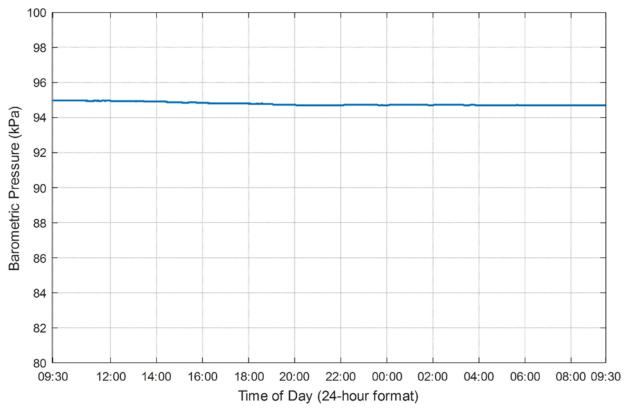


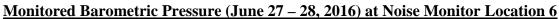


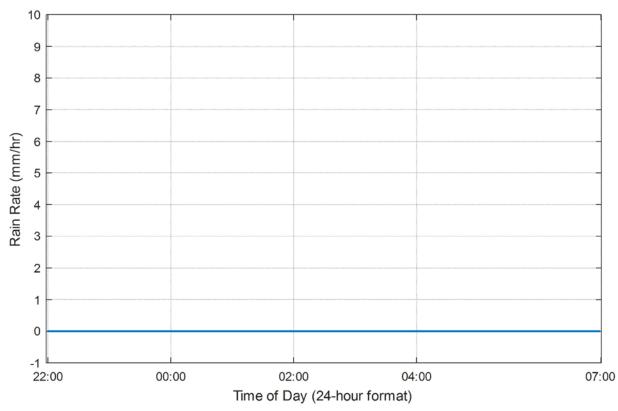


Monitored Humidity (June 27 – 28, 2016) at Noise Monitor Location 6



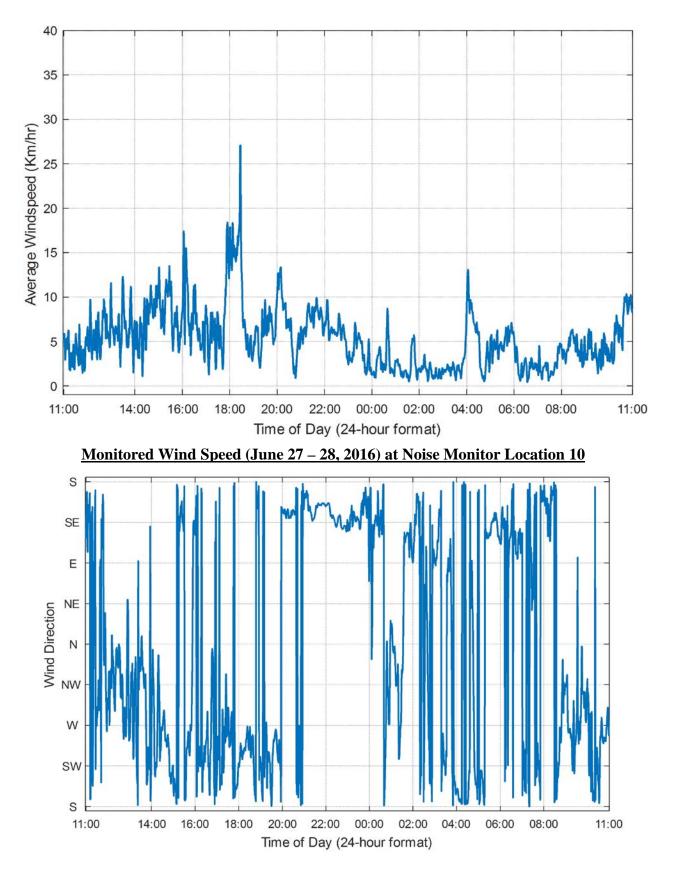






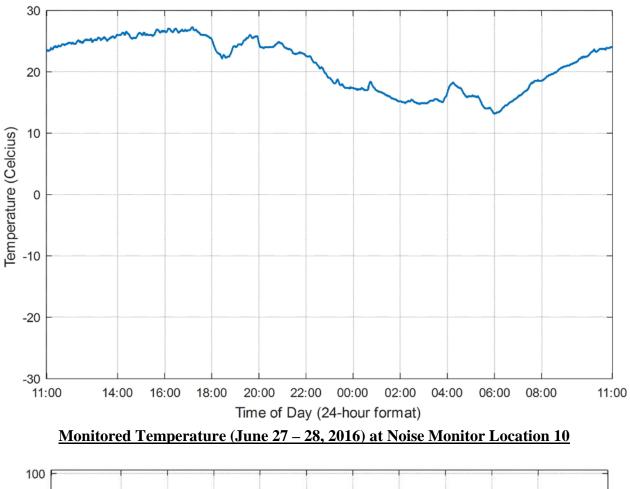
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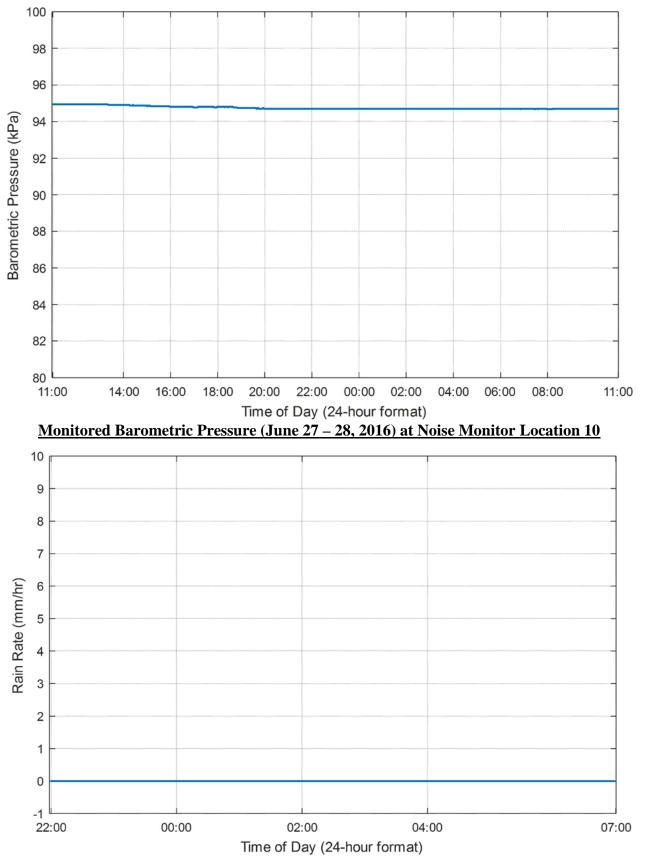
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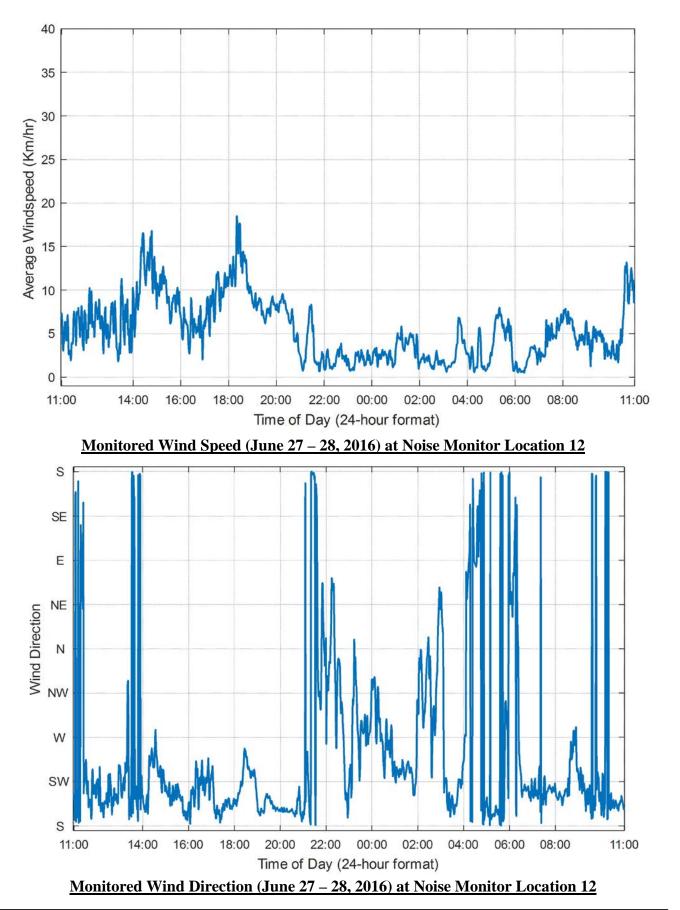


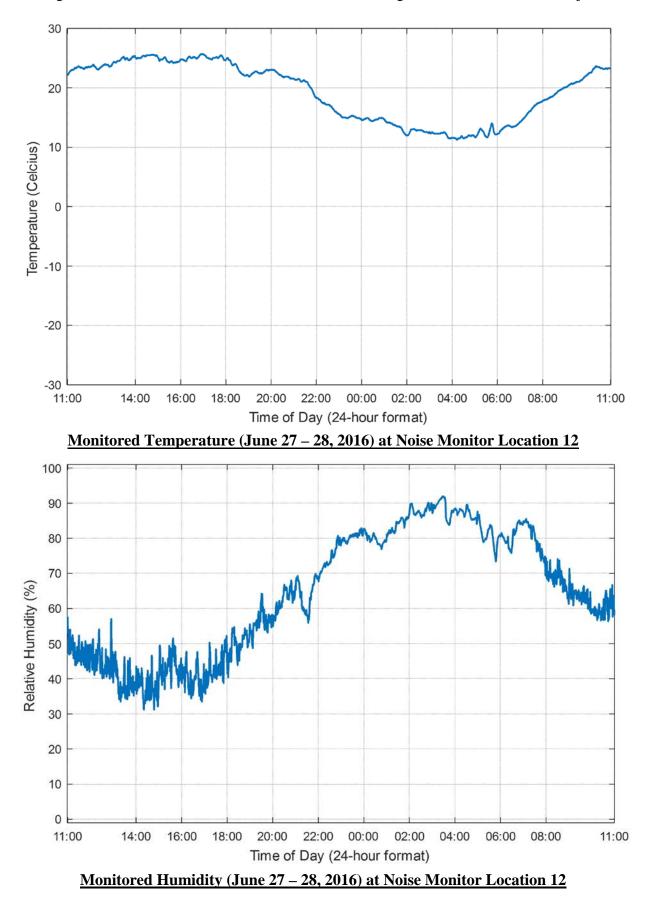




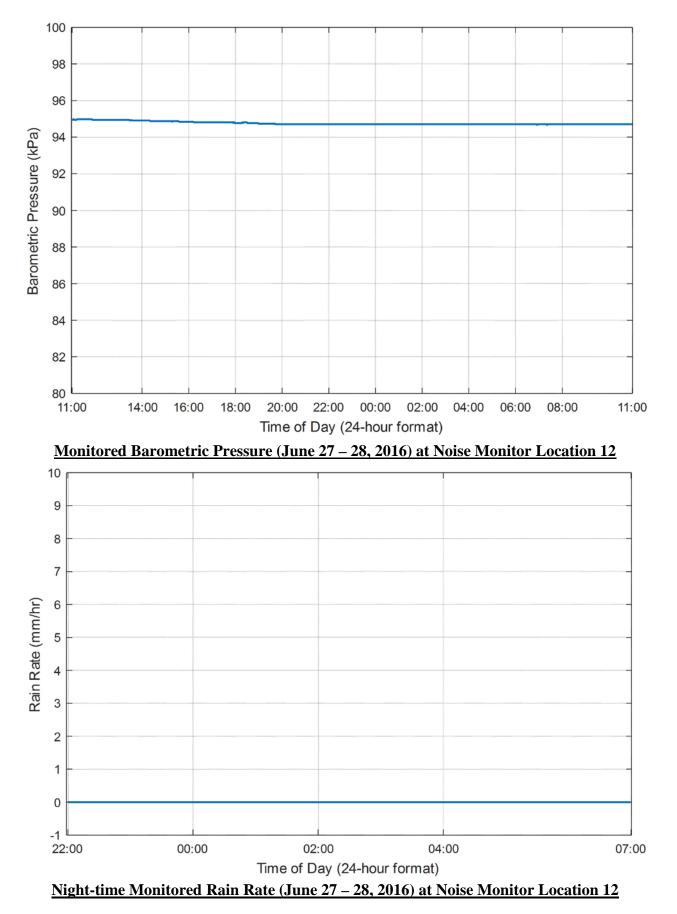
Night-time Monitored Rain Rate (June 27 - 28, 2016) at Noise Monitor Location 10







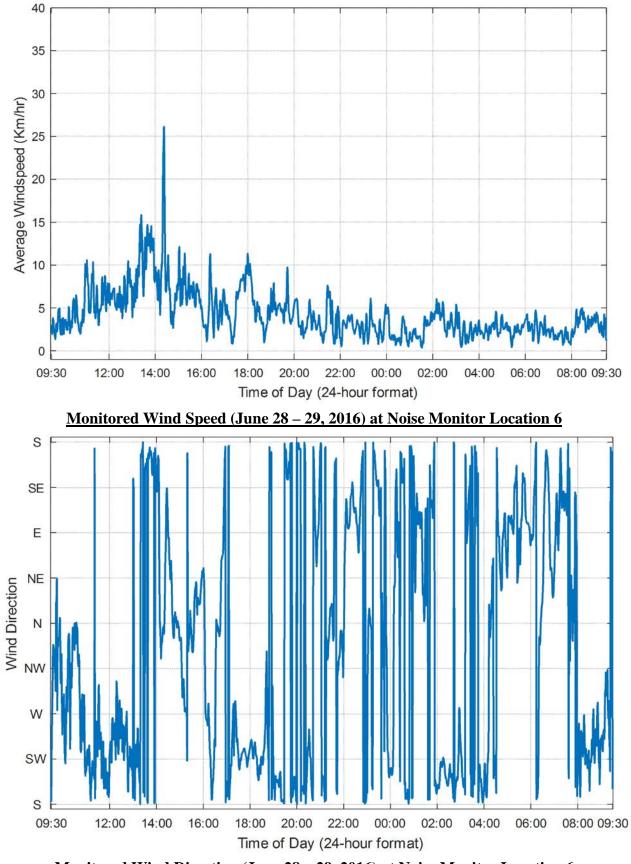






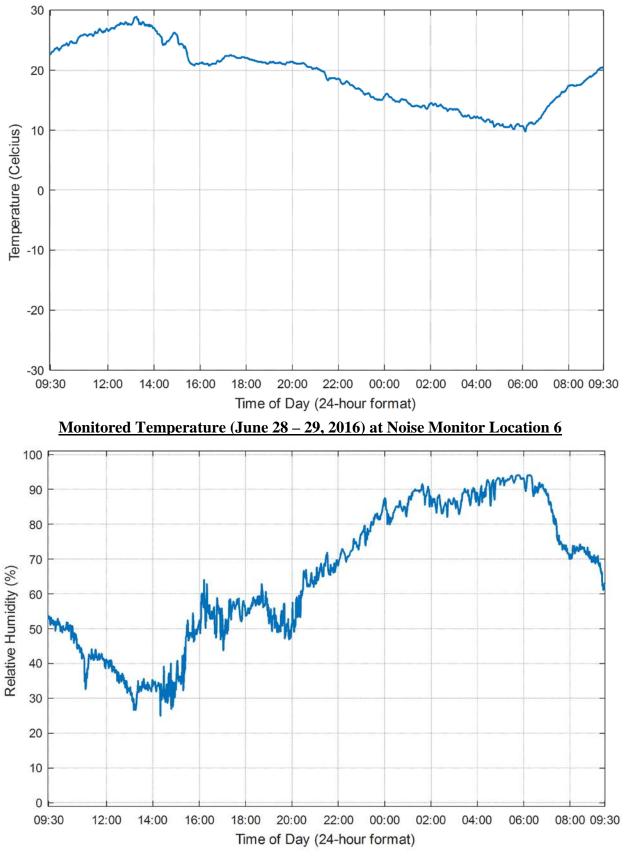
<u>June 28 – 29, 2016 Weather Data</u>





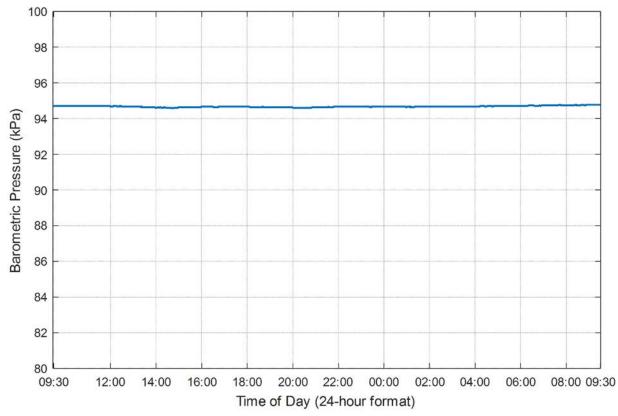
Monitored Wind Direction (June 28 – 29, 2016) at Noise Monitor Location 6



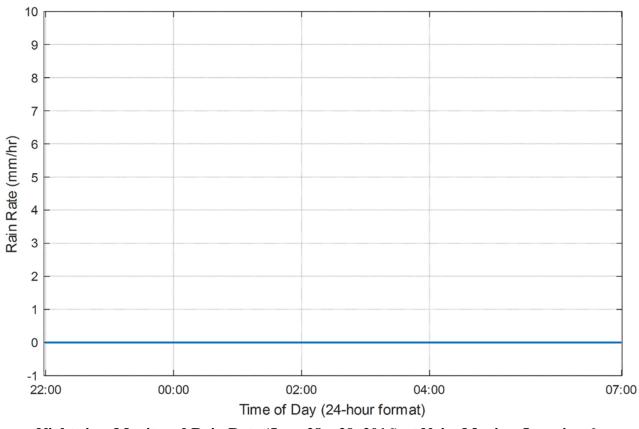


Monitored Humidity (June 28 – 29, 2016) at Noise Monitor Location 6



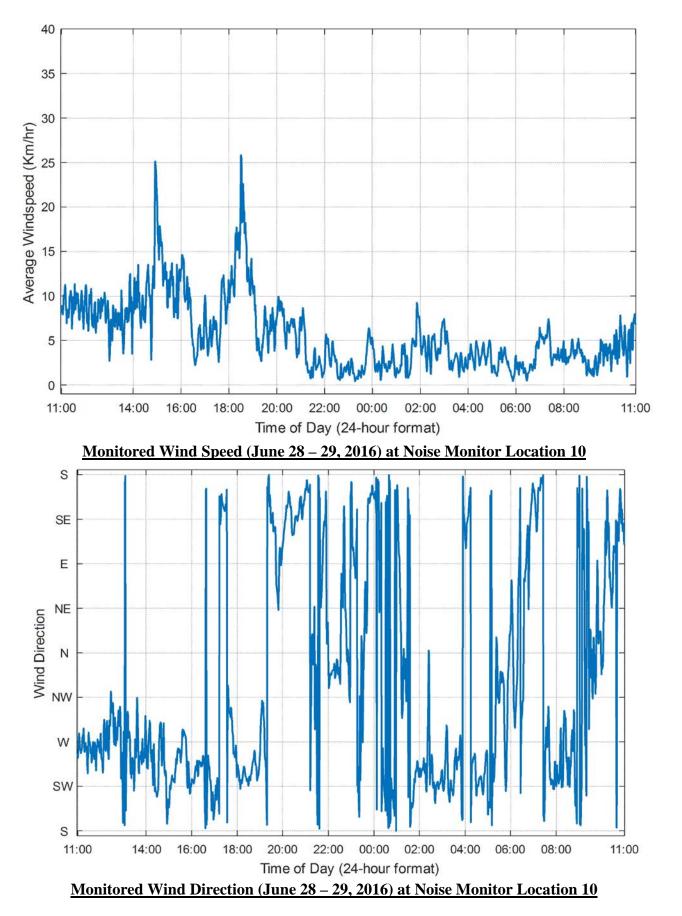


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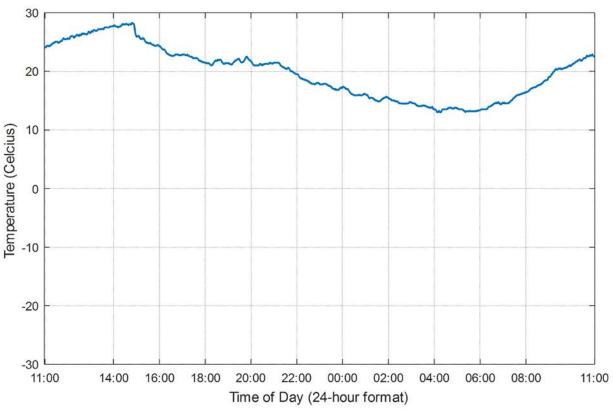


Night-time Monitored Rain Rate (June 28 – 29, 2016) at Noise Monitor Location 6

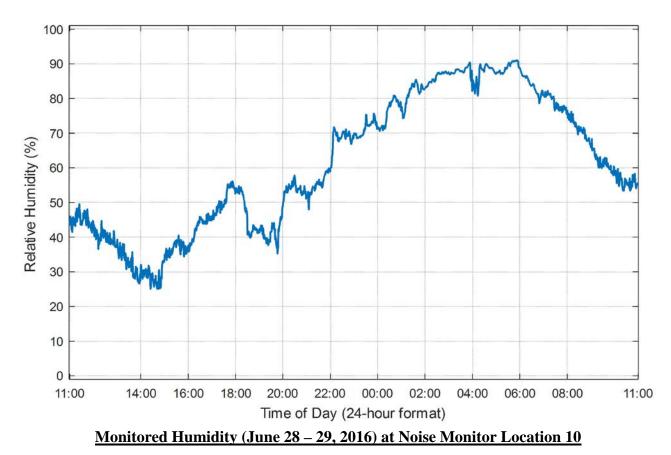




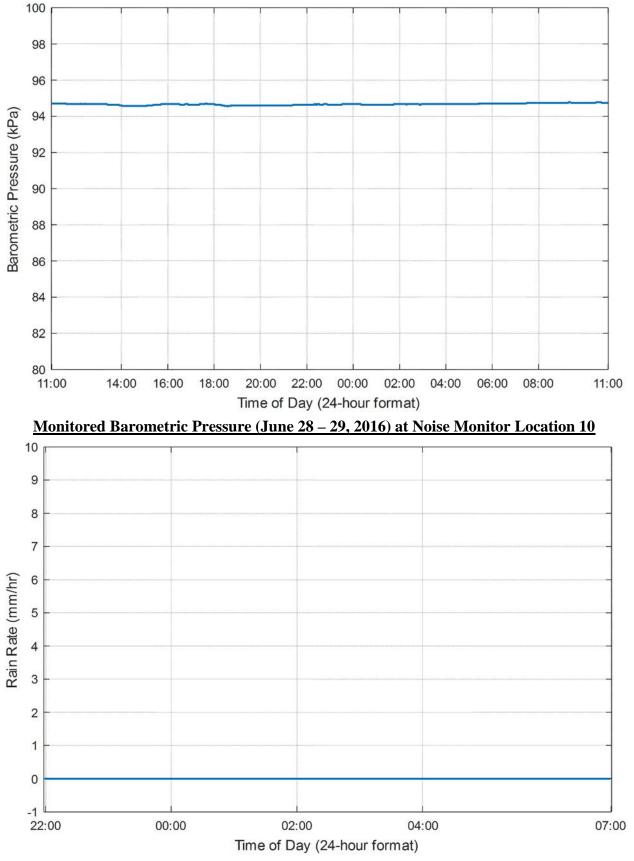




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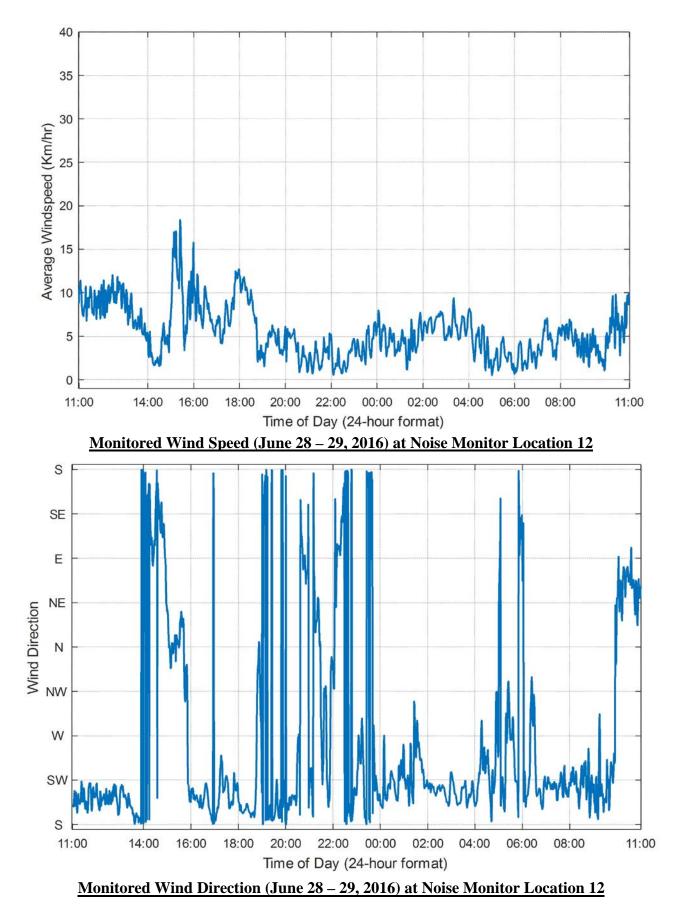




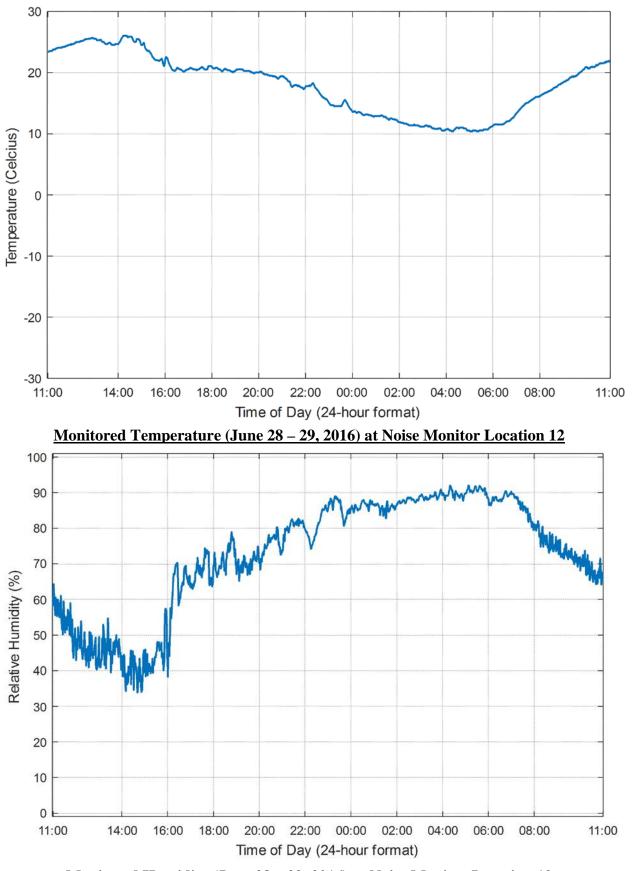


Night-time Monitored Rain Rate (June 28 – 29, 2016) at Noise Monitor Location 10



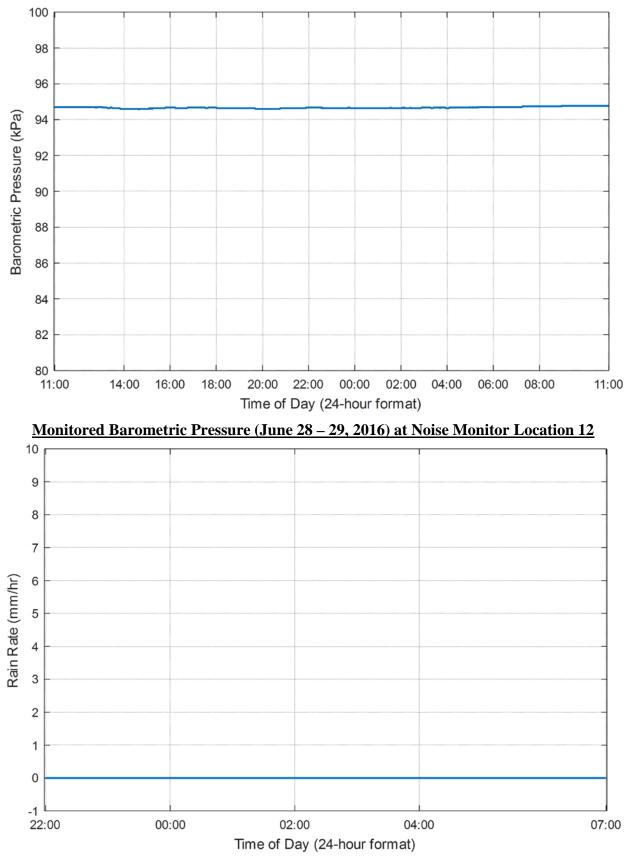






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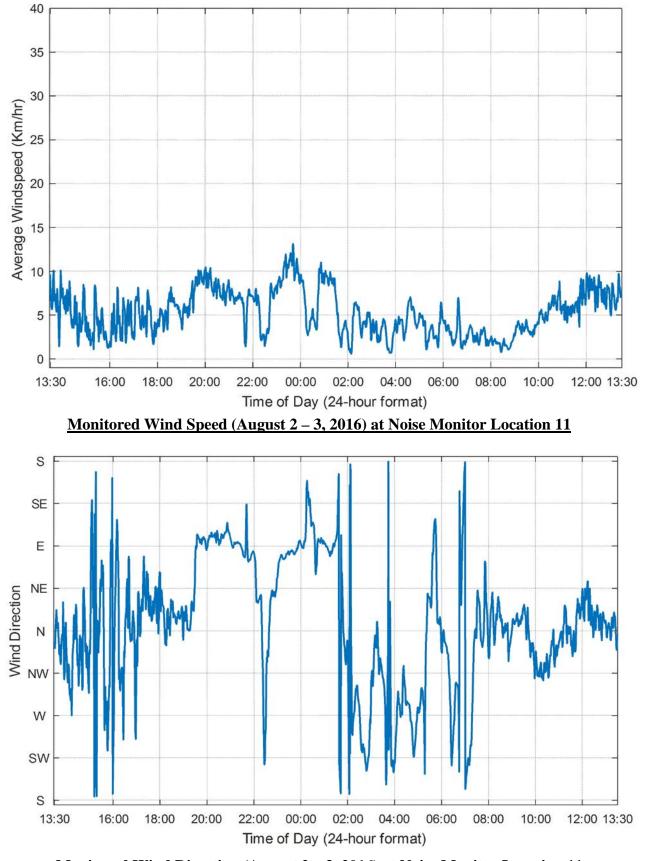


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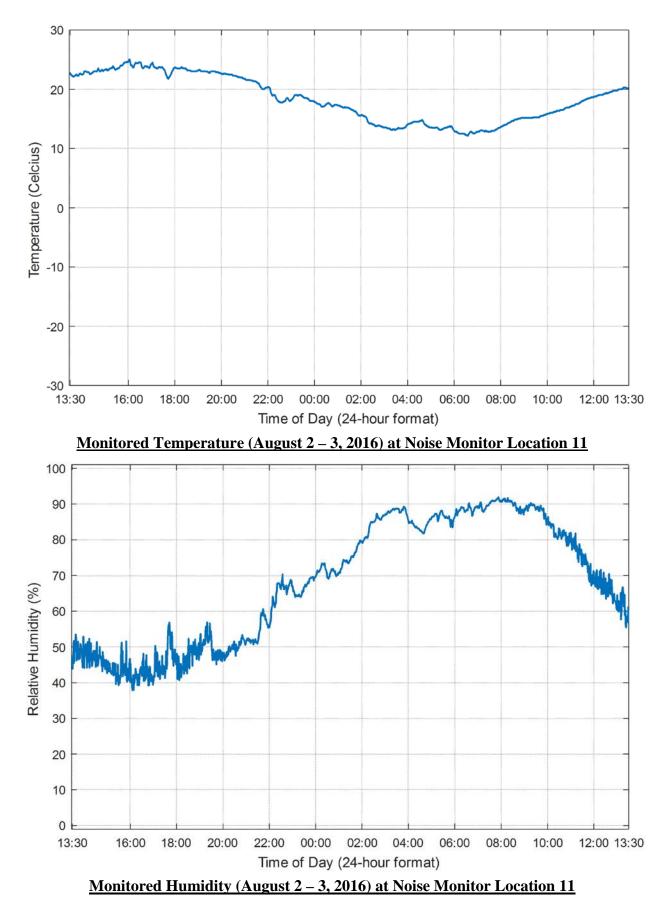
August 2 – 3, 2016 Weather Data



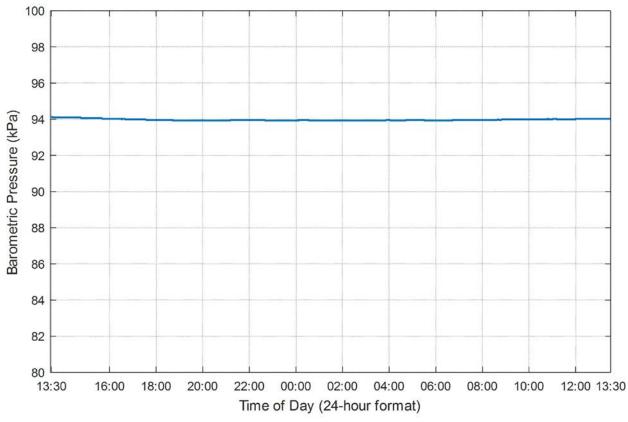


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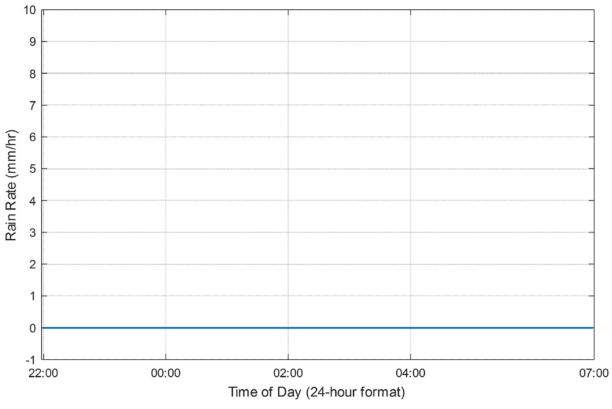






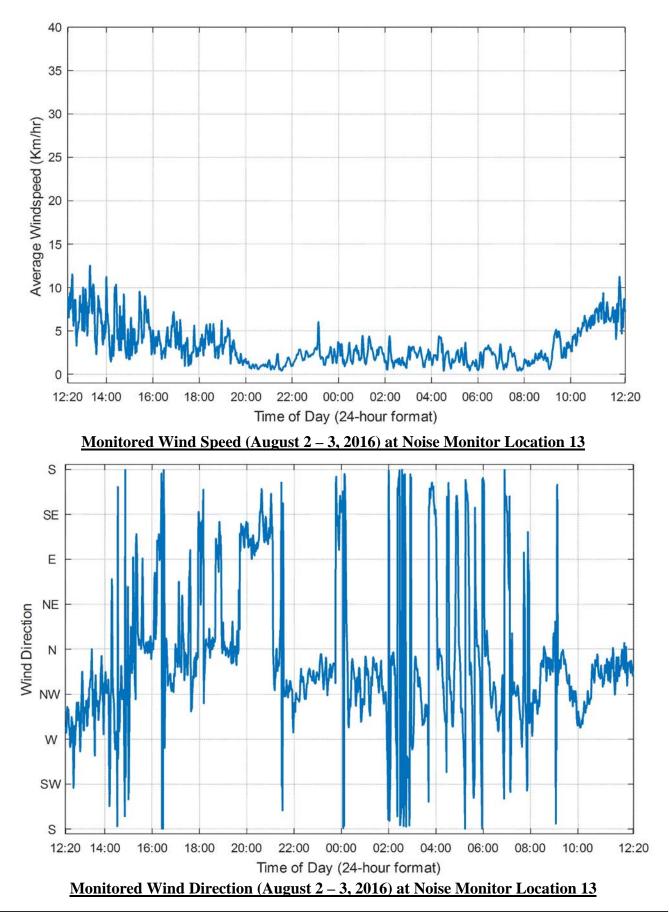


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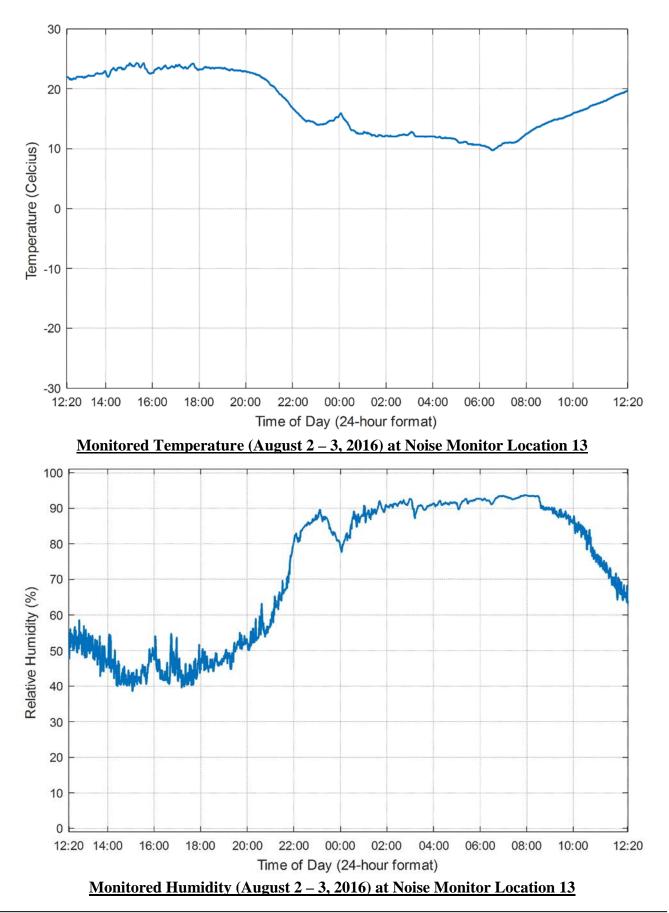


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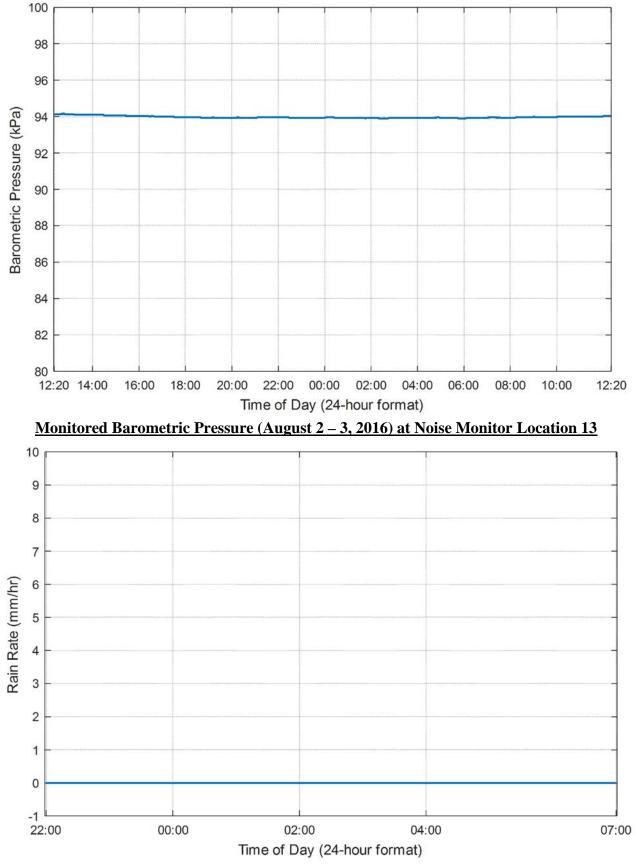






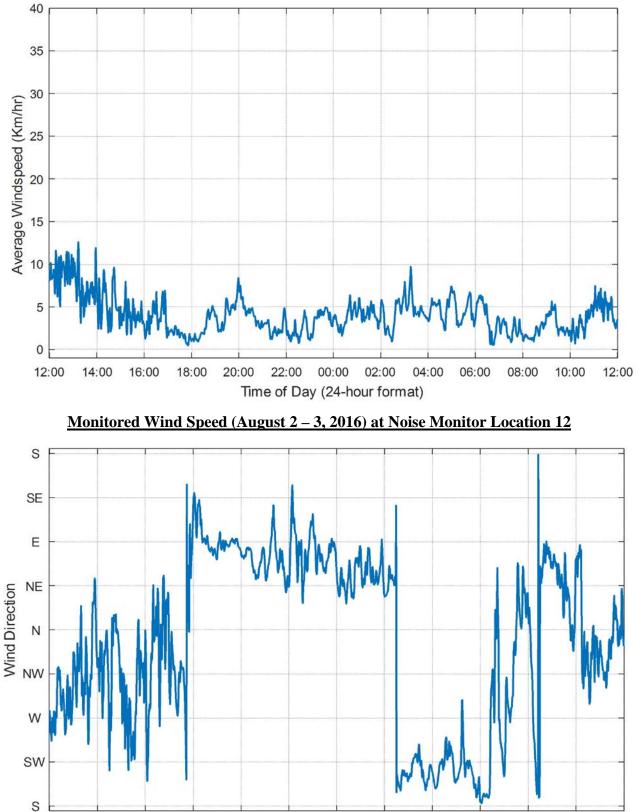






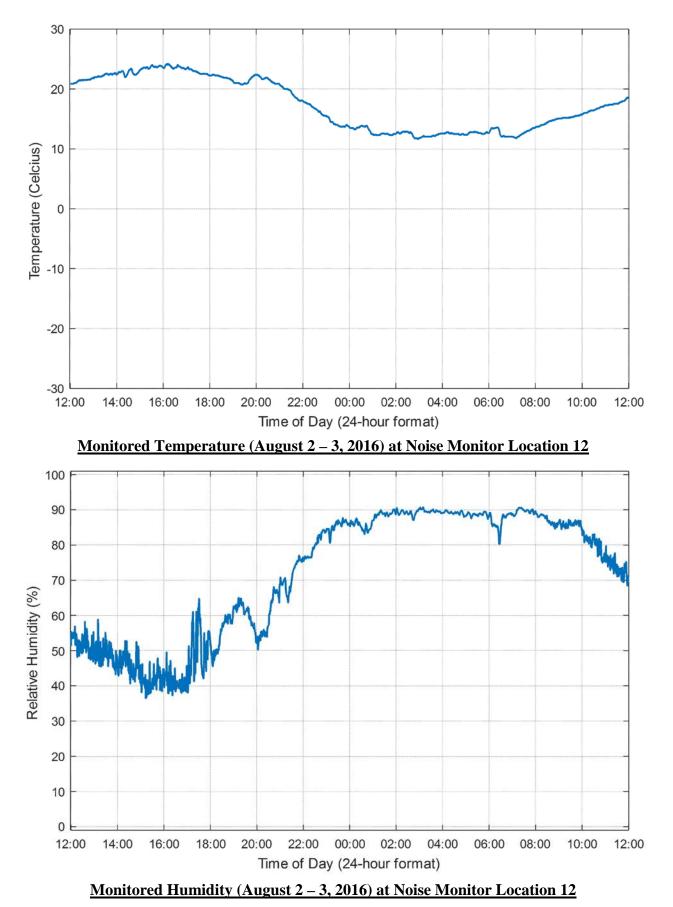
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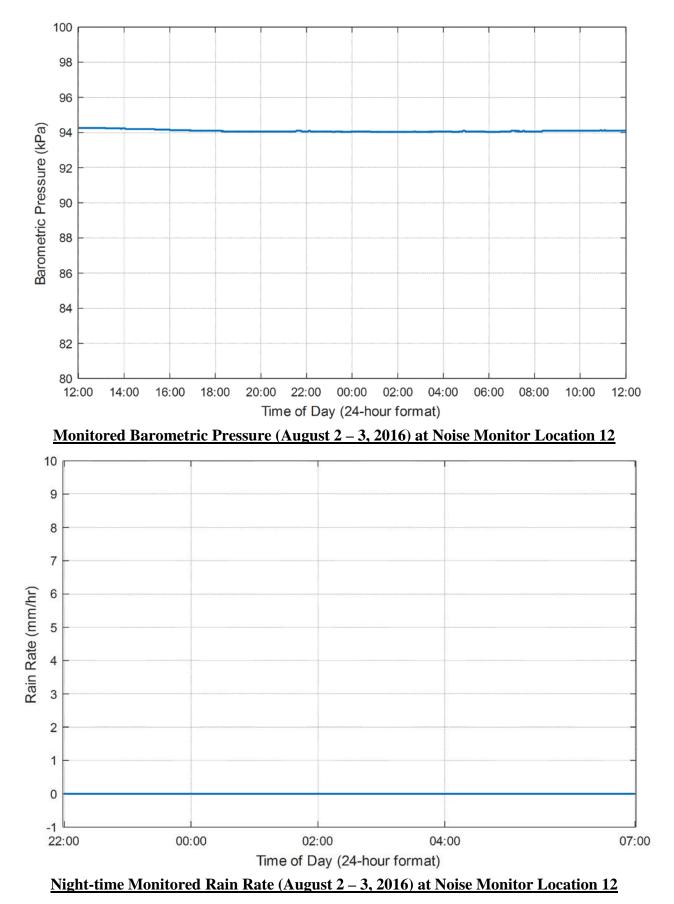


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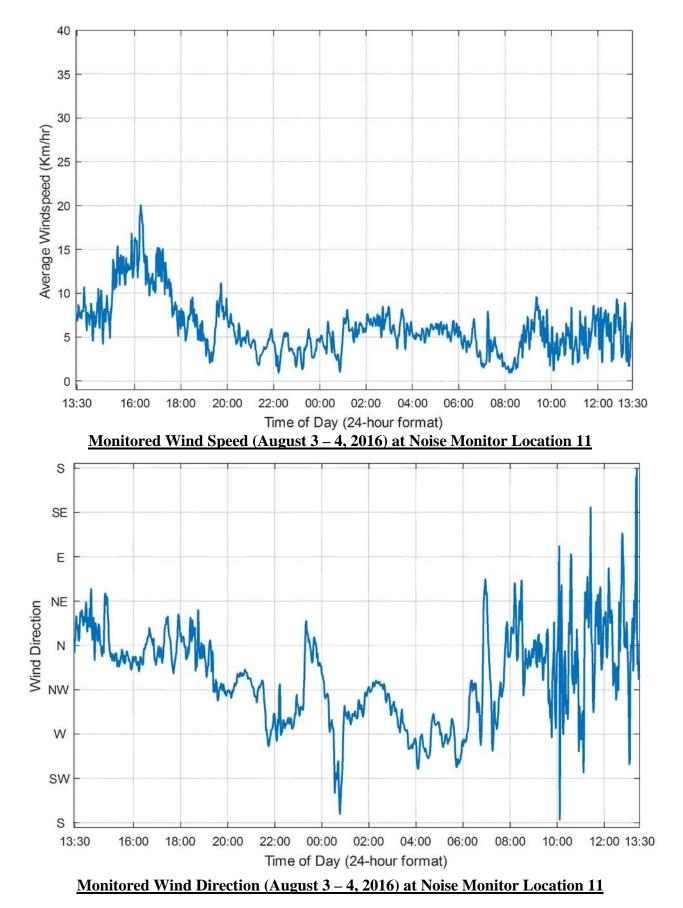
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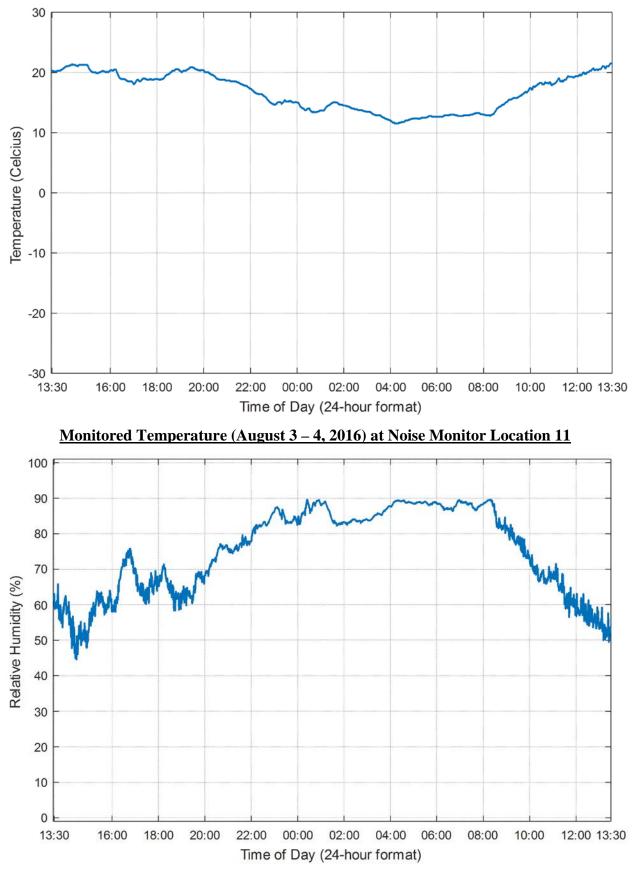
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August 3 – 4, 2016 Weather Data



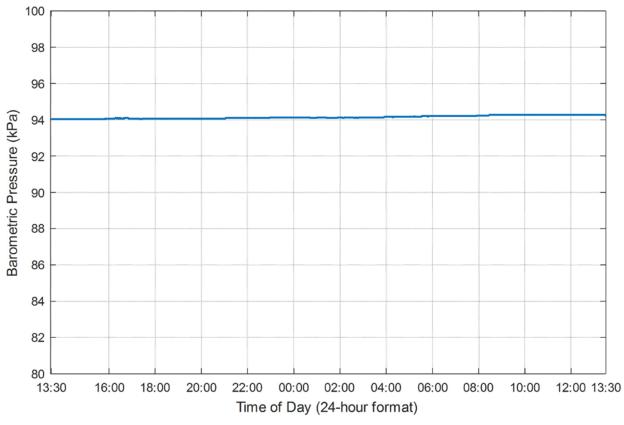




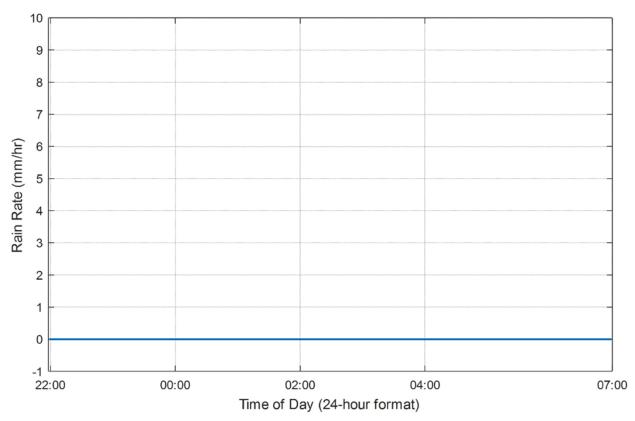


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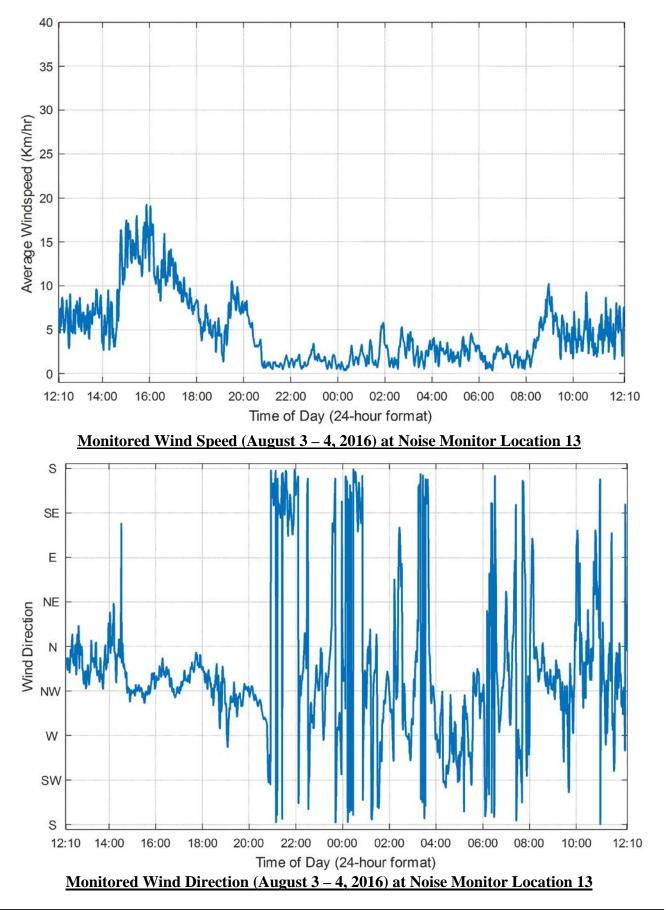


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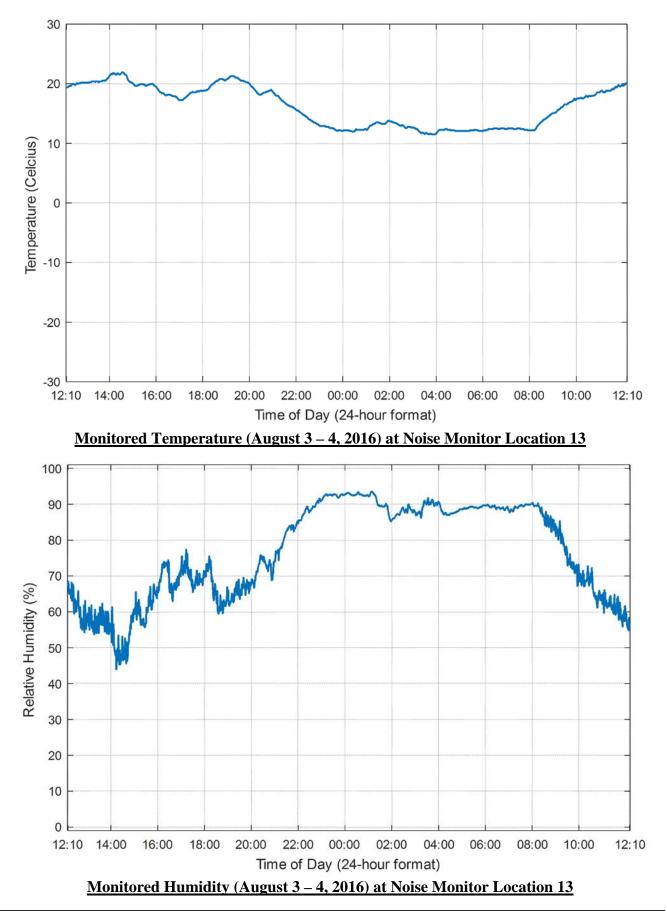


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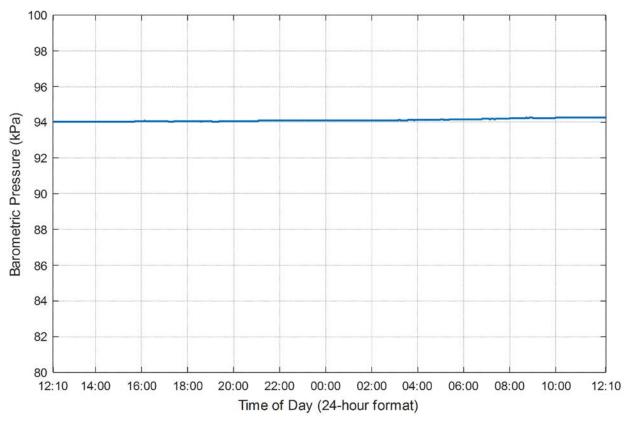




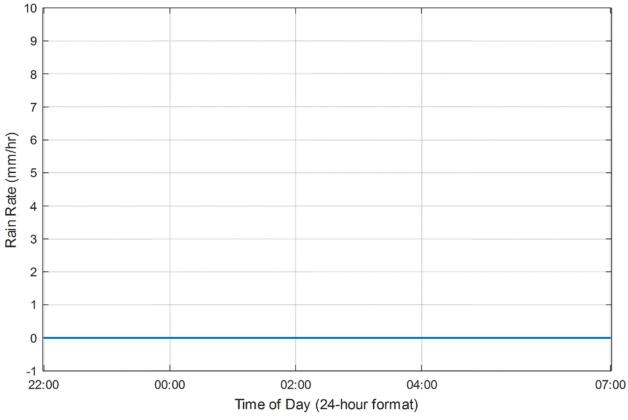






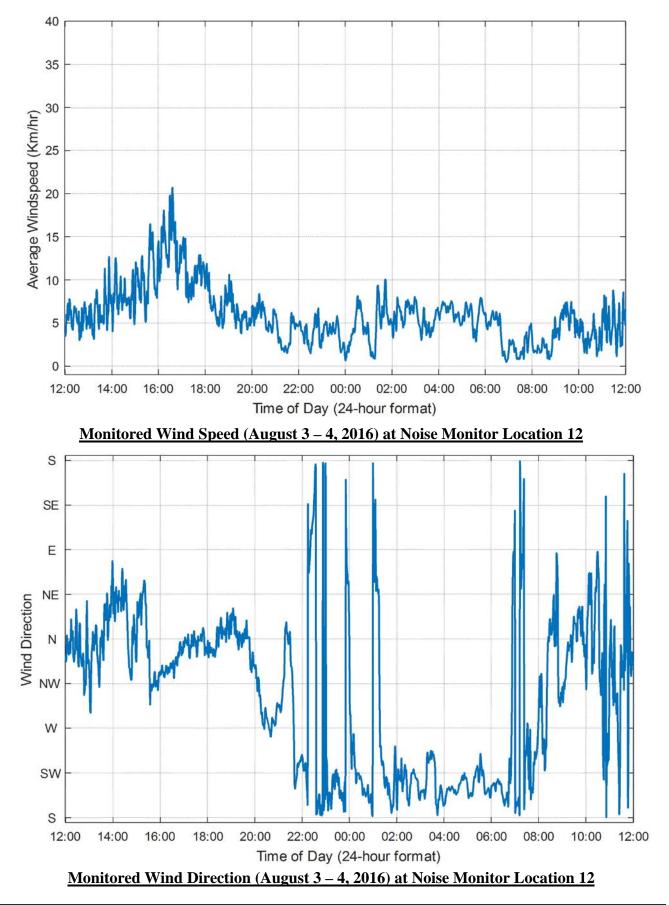


Monitored Barometric Pressure (August 3 – 4, 2016) at Noise Monitor Location 13

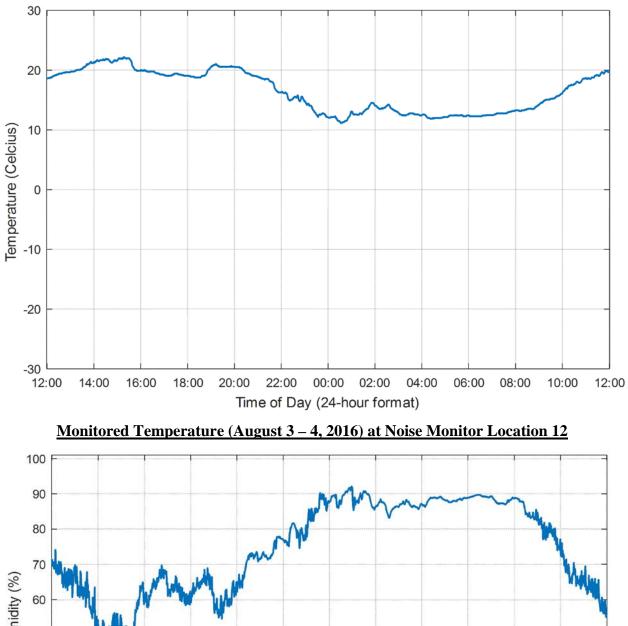


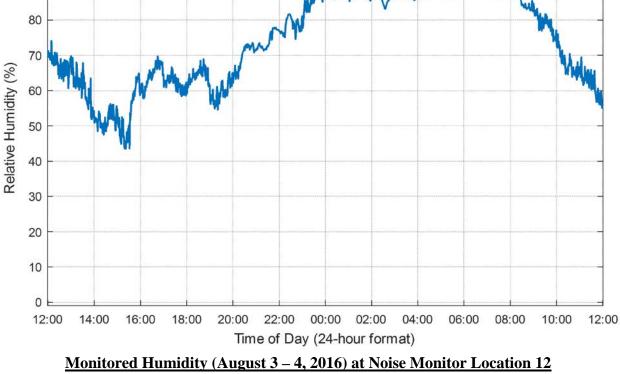
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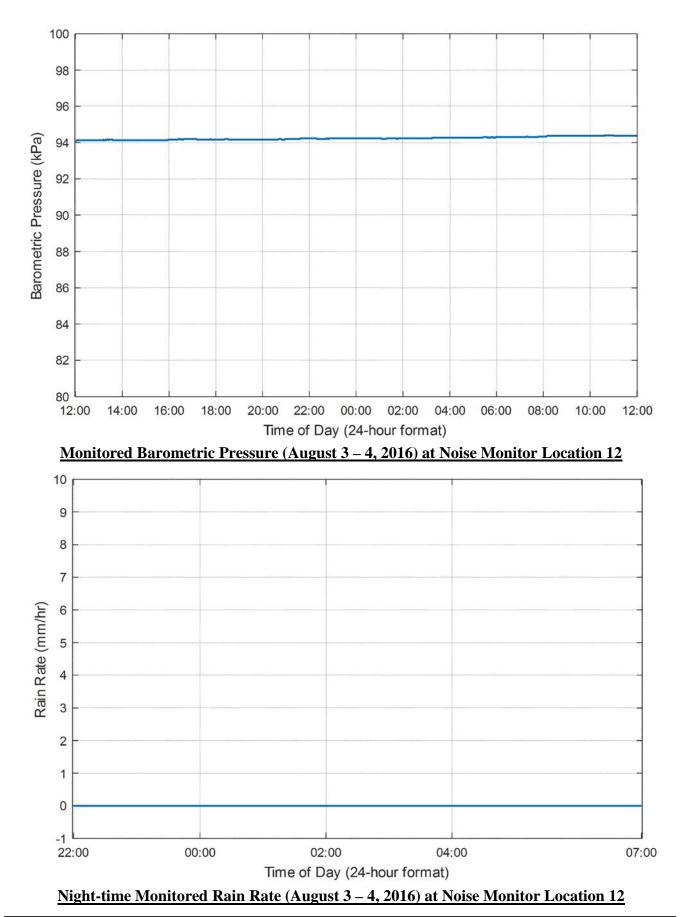












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APPENDIX 2

NCIA MEMBER COMPANY NOISE MANAGEMENT PLAN UPDATES and REPORTS (for 2016 Calendar Year)

Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Number	
Noise Management Plan Reporting Requirements as per Section 5.4 of this Standard		Rev. Date 31-March 2016	Rev. O

Access Pipeline (Sturgeon Terminal)

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

If you have any questions, please call Laurie Danielson @ 780.992.1463

Input Description	Member Site Comments
Confirmation that site has implemented a best management practice to address environmental noise as per NCIA Noise Management Plan Standard 2010-003 issued 3-Sep-10, revised 5- Mar-13, revised 14-Apr-14, revised 31-Mar-16 including the Procedure/Practice/Standard reference.	Access abides by AER's Directive 38.
Note, if you have not provided an electronic copy of your site plan to NCIA, please do so.	
Provide a summary of any monitoring (fence line outward completed in 2016.	A noise monitoring was not conducted in 2016.
Note, you are not required to conduct any off- site monitoring.	
Disclose any improvements/corrective actions implemented in 2016 or status thereof that would impact the noise level output for your site (either up or down).	N/A
Did those changes result in a requirement to update your site noise model?	
If so, have you provided your updated site model to SLR Consulting for incorporation into the NCIA Regional Noise Model as per the process outlined for this purpose?	

Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Number	
Noise Management Plan Reporting Requirements as per Section 5.4 of this Standard		Rev. Date 31-March 2016	Rev. O

Disclose any improvements/projects that are approved for 2017 that would impact the noise	There are no anticipated projects or improvement for 2016 that may impact noise
level output for your site (either up or down).	levels.
Will these changes result in a requirement to update your site noise model?	
If so, when do you anticipate having an updated site model available?	
Disclose any audit/self-assessment evaluation (qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan in 2016.	None.
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	Access Pipeline did not receive any noise complaints for the 2016 year.

This information is being collected as per the NMP Standard 2010-003 Revised 31-March-2016. All information provided will be disclosed to the AER as part of the required NCIA Annual Reporting on the Regional Noise Management Plan.

Further, the Annual Report will be a public document available on our website once finalized.

Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Number	
		Rev. Date 31-March 2016	Rev. O

Agrium Redwater and Fort Saskatchewan

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

If you have any questions, please call Laurie Danielson @ 780.992.1463

Input Description	Member Site Comments
Confirmation that site has implemented a best management practice to address environmental noise as per NCIA Noise Management Plan Standard 2010-003 issued 3-Sep-10, revised 5- Mar-13, revised 14-Apr-14, revised 31-Mar-16 including the Procedure/Practice/Standard	 Agrium has documented and implemented a Noise Management Plan. The plan consists of the following documents: ESP 3.07.01 Noise Management Overview ESP 3.07.02 Noise Management Program
reference. Note, if you have not provided an electronic	 ESP 3.07.02 Noise Numagement Program ESP 3.07.03 Noise Source List ESP 3.07.04 Monitoring Program
 copy of your site plan to NCIA, please do so. Provide a summary of any monitoring (fence line outward completed in 2016. Note, you are not required to conduct any offsite monitoring. 	Agrium has discontinued quarterly checks at both the Redwater and Fort Saskatchewan sites and therefore has no data summary to submit. The site Noise Management Plan remains in place and ready to be immediately executed in the event elevated noise is suspected.
Disclose any improvements/corrective actions implemented in 2016 or status thereof that would impact the noise level output for your site (either up or down). Did those changes result in a requirement to update your site noise model?	In 2016, Agrium Redwater hired SLR Consulting to complete a Noise Model Update to address 1) discrepancies in the existing Regional Noise Model and to 2) submit with the site Operating Approval Renewal Application.
If so, have you provided your updated site model to SLR Consulting for incorporation into the NCIA Regional Noise Model as per the process outlined for this purpose?	Approximately 50 of the over 400 noise sources in the model have been measured and updated. The most significant changes are noise from open building doors that were previously assumed closed, and the addition of the Phos 30# steam vents. The report is attached.
	As reported last year, there was concern over Agrium Redwater's Urea Process Unit which made some changes to the diameter of the Process Steam Vent which may have

		Document Number	
Northeast Capital Industrial Association	NCIA Standards and Guidelines	2010-0	03
8	lan Reporting Requirements as 5.4 of this Standard	Rev. Date 31-March 2016	Rev

	contributed to elevated site environmental noise level as well. The source was evaluated during the model monitoring, but results did not seem out of the norm. It is suspected that the rate of the vent varies so the elevated noise is not consistent and therefore not picked up the day of the model monitoring.
Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down). Will these changes result in a requirement to update your site noise model? If so, when do you anticipate having an updated site model available?	In terms of the #30 Phos Steam Vents identified in the Noise Model Update, silencers are scheduled to be installed during the August / September 2017 turnaround. As stated in the 2013-2015 reports, Agrium Redwater engaged both SLR and Noise Solutions to proactively provide noise control options for both the compressor / gas turbine (CGT-902) and Utilities Boiler #2 replacement projects respectively. The motive for these assessments is primarily Occupational Hygiene, but it is anticipated that Environmental Noise will also be reduced. Worthy of noting is that implementation of these projects have been rescheduled for 2019.
Disclose any audit/self-assessment evaluation (qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan in 2016.	Yes. We are implementing plan improvements in 2017.
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	There were no external noise complaints for either Agrium Redwater or Fort Saskatchewan in 2016.

Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Number	
		Rev. Date 31-March 2016	Rev. 0

This information is being collected as per the NMP Standard 2010-003 Revised 31-March-2016. All information provided will be disclosed to the AER as part of the required NCIA Annual Reporting on the Regional Noise Management Plan.

Further, the Annual Report will be a public document available on our website once finalized.



global environmental solutions

Agrium Redwater 2016 Noise Model Update

Draft

February 2017 SLR Project No.: 203.50100.00000



AGRIUM REDWATER FERTILIZER OPERATIONS

2016 NOISE MODEL UPDATE

SLR Project No.: 203.50100.00000

Prepared by SLR Consulting (Canada) Ltd. 1185 – 10201 Southport Road Calgary AB T2W4X9

for

Agrium Inc. 11751 River Road Fort Saskatchewan, AB T8L 4J1

February 8, 2017

Association of Professional Engineers and Geoscientists of Alberta Permit to Practice P05449



2017-02-08 Chris Bibby, M.A.Sc., P.Eng. Intermediate Engineer Reviewed by:

Nigel Maybee, M.A.Sc Principal Scientist

CONFIDENTIAL

Distribution: 1 copy – Agrium Inc. (pdf) 1 copy – SLR Consulting (Canada) Ltd.

EXECUTIVE SUMMARY

The Agrium Inc. (Agrium) Redwater Fertilizer Operations (RFO), located near Redwater in the Alberta Industrial Heartland, is a member company of the Northeast Capital Industrial Association (NCIA). Agrium maintains an environmental noise model of the RFO site as required by the NCIA Regional Noise Management Plan (RNMP). The noise model is used to predict and manage the environmental noise produced by industrial noise sources at the RFO site.

As part of the RNMP, the NCIA is responsible for combining all member companies' facility noise models into a single Regional Noise Model (RNM). The NCIA also conducts an annual noise monitoring program, the results of which are compared to RNM predictions. The NCIA noise monitoring program has consistently shown that the measured noise levels to the east of the RFO site (NCIA Monitoring Location 6) exceed the predicted noise levels during the nighttime. Observations at NCIA Monitoring Location 6 indicate that the measured noise level is dominated the RFO site, implying that the RFO noise model may be under-predicting the facility's environmental noise emissions. The noise model update documented in this report is motivated, in part, by the need to identify and correct this discrepancy.

Approximately 50 of the over 400 noise sources in the model have been measured and updated in the model. The most significant changes are noise from open building doors that were previously assumed closed, and the addition of the Phos 30# steam vent to the noise model. The updated model has been validated by comparison of predicted and measured noise levels on the plant roadways, which show it to be generally accurate. At two roadway locations the predicted levels were not consistent with the measured levels; these locations should be further investigated during the next model update project, but they do not invalidate the overall model.

The updated noise model was used to predict RFO noise contributions at six off-site receptor locations. These include receptors used for previous RFO site noise studies and receptors corresponding to two NCIA noise monitoring locations. The model update indicates an increase in predicted sound level contributions at five receptors and a decrease at one receptor. The greatest increase in predicted sound level is approximately 4 dBA for receptors east of the Agrium site. A sound level decrease of approximately 1 dBA is predicted for one receptor west of the site. The increase in predicted sound level on the east side of the site is primarily attributed to the Phos 30# steam vent.

This RFO noise model update indicates an increase of 3.5 dBA in RFO site noise contributions at the NCIA 6 receptor. This change in the RFO noise model predictions is expected to improve agreement between the next update to the RNM and NCIA noise monitoring results for the RFO area.

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1.0 INTRODUCTION

The Agrium Inc. (Agrium) Redwater Fertilizer Operations (RFO), located near Fort Saskatchewan in the Alberta Industrial Heartland, is shown in Figure 1. The RFO site is comprised of the Gypstack to the north, and the process units to the south. Agrium is a member company of the Northeast Capital Industrial Association (NCIA), and maintains an environmental noise model of RFO as required by the NCIA Regional Noise Management Plan (RNMP). The noise model is a tool for prediction and management of environmental noise produced by industrial noise sources at the RFO site.

As part of the RNMP, the NCIA is responsible for combining all member companies' facility noise models into a single Regional Noise Model (RNM). The NCIA also conducts an annual noise monitoring program, the results of which are compared to RNM predictions. The NCIA noise monitoring program has consistently shown that the measured noise levels at an off-site location 1.6 km east of the RFO site (NCIA Monitoring Location 6) exceed the predicted noise level during the nighttime¹. Observations at NCIA Monitoring Location 6 indicate that the measured noise level is dominated by RFO, implying that the RFO noise model may be underpredicting the site's environmental noise emissions. This model update is motivated, in part, by the need to resolve this discrepancy.

Agrium retained SLR Consulting (Canada) Ltd. (SLR) to update the RFO noise model. The model update is designed to:

- Update the sound power level of any industrial noise sources that are known to have changed since the original model was developed in 2001 (changes include equipment added, removed, process conditions changed, or noise control implemented)
- Validate the model by comparison to current measurements of industrial noise levels on and around the RFO site
- Identify any changes in the predicted environmental noise contribution following the model update

A glossary of acoustical terms, an introduction to environmental noise descriptors, and an introduction to outdoor sound propagation are provided in Appendix F, G, and H.

¹ NCIA, *NCIA Regional Noise Management Plan (RNMP) Annual Report,* January 2016.



Figure 1: Agrium RFO

2.0 REVIEW OF PREVIOUS RFO NOISE MODEL

2.1 Environmental Noise Model Software

The existing RFO noise model is maintained in the SoundPLAN computer noise modelling platform. Updates to SoundPLAN are issued from time to time by the manufacturer to improve the software program. The current version of SoundPLAN is Version 7.4, and the 2016 noise model update includes conversion of the model to Version 7.4.

The RFO noise model calculations utilize the ISO 9613 calculation method for absorption of sound by the atmosphere, and the CONCAWE calculation method for outdoor sound propagation from industrial facilities. These calculation methods account for the following outdoor sound propagation effects:

- Geometric spreading
- Ground attenuation
- Atmospheric absorption
- Barrier attenuation.
- Wind or temperature gradients.

Meteorological parameters and ground attenuation values typical of summer seasonal conditions are used in the noise model calculations. These conditions include an air temperature of 10°C and a relative humidity of 70%. The CONCAWE procedure allows calculations to be made for calm and downwind sound propagation from the site. The noise model results presented in this report are for downwind conditions.

The NCIA Regional Noise Model also utilizes the ISO 9613 and CONCAWE calculation methods. The temperature, humidity, ground attenuation and terrain parameters for the Agrium Redwater noise model calculations are the same as those used for the NCIA Regional Noise Model.

2.2 Previous RFO Noise Model

SLR (formerly HFP Acoustical Consultants Corp.) developed and validated the original RFO noise model in 2001². Prior to this 2016 update, the noise model has not been significantly updated since it was originally developed. Between 2013 and 2015, SLR has conducted acoustical measurements and modeling related to the CGT-902 replacement project, but the results of this work were not incorporated in the environmental noise model at that time. The 2013 C-902 compressor piping noise measurements have been incorporated in this model update.

3.0 2016 FACILITY NOISE SURVEY

Mr. Chris Bibby, M.A.Sc., P.Eng., and Mr. Matthew Gaskell, C.E.T. of SLR conducted a diagnostic noise survey at RFO on August 8 and 9, 2016 by. The survey was designed to achieve the following objectives:

- 1. Conduct diagnostic equipment noise measurements for new equipment, and equipment that Agrium identified to have altered noise emissions, since the original noise measurements were completed in 2001.
- 2. Identify local areas of disagreement between the original model and the current facility noise by conducting noise level measurements on the roadways throughout the facility.
- 3. Conduct diagnostic equipment noise measurements, as appropriate, in plant areas where the measured roadway noise levels disagree with the predicted levels.

The sound measurement instrumentation used for the on-site noise measurements were as follows:

- Brüel & Kjær Type 2270 hand-held analyser (2)
- Brüel & Kjær Type 4189 ½" microphone (2)
- Brüel & Kjær ZC-0032 preamplifier (2)

² HFP Acoustical Consultants Corp., *Facility Noise Model and Noise Source Order Ranking*, HFP File 00 C 1492-1, July 27, 2001.

- Brüel & Kjær UA-1650 wind screen (2)
- Brüel & Kjær Type 4231 calibrator (2)

Additionally, for information purposes, SLR conducted a 24-hour noise survey at the offsite NCIA Monitoring Location 6. The sound measurement instrumentation used for the offsite noise survey was as follows:

- Larson Davis 824 integrating sound level meter
- Gras TMS40AE microphone
- Brüel & Kjær UA0237 wind screen
- Marantz professional PMD 620 mp3 recorder
- Brüel & Kjær 4231 calibrator

4.0 FACILITY NOISE SOURCES AND MODEL UPDATE

Major sources of environmental noise at RFO include the following equipment:

- Compressors and compressor piping
- Control valves and process piping
- Process vessels
- Product handling equipment
- Furnace walls, fans, stacks, and ducting
- Cooling tower fan plenum outlets, fan motors, lift pumps, and watersplash
- Aerial cooler fans
- Process pumps and pump drivers
- Lube oil coolers
- Deaerator steam vents
- Process vents
- Walls, louvers, and doors of buildings housing noisy equipment
- Building ventilation and exhaust fans
- Gas turbines

Equipment that operates intermittently or in emergency situations, such as emergency flares, PSVs, and vents can emit high levels of noise. However, these sources are typically not included in environmental noise models unless the equipment operates regularly.

Equipment noise data collected during the facility noise surveys was processed to determine the octave band sound power level (PWL) of each noise source. The noise source sound power and directivity data, along with geometry and location coordinates are used to define the parameters of each noise source within the computer noise model.

Approximately 50 noise sources have been revised in this model update. The most significant changes to the noise model are as follows:

- 1. Open building doors that were previously assumed closed:
 - a. Three 12 m tall doors on the west side of Phos. Bldg. R1001 (Figure 2)
 - b. Man door and overhead door on the S.A.1 Compressor Building (figure not shown)
 - c. Overhead door on the S.A.2 Compressor Building (Figure 3)
 - d. Overhead doors (South and East) on Ammonium Nitrate R301 Bldg (Figure 4)

- e. Upper hoist access doors on Ammonium Plt. #1 Compressor Bldg. (Figure 5)
- f. Opening in second level wall, NE Urea Plt. #4. (Figure 6)
- g. Overhead doors, South Urea Plt. #4. (Figure 7)
- 2. Intermittent/Continuous operation of the Utilities and Phos. 30# steam vents (Figure 8). SLR has assumed, based on information provided by Agrium, that a typical condition for modelling purposes is one vent operating at a high flow rate (95,000 lb/hr, as measured), and the other operating at a lower flow rate (<50,000 lb/hr) such that its contribution is relatively insignificant.

A summary of RFO operating conditions over the course of the survey (provided by Agrium) are shown in Appendix A. Generally, all process units were operating normally with the exception of the Phosphoric Acid Unit, which was at reduced rates for most of the survey. Reduced Phosphoric Acid Unit production rates are responsible for the observed high steam flow rates through the Phos 30# vent. Equipment sound power level data for all major noise sources at RFO is provided in Appendix B. The pre- and post-update overall A-weighted sound power levels are listed for each source.

SLR investigated a number of additional vents that are located at high elevations (on structures or roofs). Agrium had indicated that silencers on these vents may have degraded over time, making them potentially significant environmental noise sources. It was not possible to access and measure these vents in the context of this project; however, the following observations were made:

- NH3-1 CO2 Vent: SLR observed this vent from the top platform on the associated vessel. The vent was audible, but not so loud that the silencer is suspected to have failed.
- NH3-2 CO2 Vent: SLR observed this vent from the top platform on the associated vessel. Again, the vent was audible, but not so loud that the silencer is suspected to have failed.
- NH3 Deaerator Vent: The vent is located on top of the NH3 Plant #9 building and is not accessible. SLR observed vent from an adjacent structure, but it was not audible. A vent silencer was installed on this deaerator in 2004, after the original plant noise survey and noise model development in 2001. As such, the noise level of this vent has been reduced by 10 dB in the noise model update based on the assumption that the silencer is effective. A 10 dB noise reduction is readily achievable by a vent silencer and therefore represents a conservative assumption. The NH3 deaerator vent noise should be re-measured for a future noise model update project.
- Urea Process Vent: SLR observed this vent from the top platform on the associated vessel. The vent was audible, but insignificant in comparison to other facility noise sources.



Figure 2: Three large open doors on Phos. Bldg. R1001



Figure 3: Overhead door on S.A.2 Compressor Bldg.



Figure 4: Overhead doors (South and East) on Ammonium Nitrate R301 Bldg.



Figure 5: Upper hoist access doors on Ammonium Plt. #1 Compressor Bldg.



Figure 6: Second level opening, NE Urea Plt. #4.



Figure 7: Overhead doors, South Urea Plt. #4.



Figure 8: 30# steam vents.

5.0 ON-SITE MODEL VALIDATION

The updated RFO noise model was used to predict facility sound levels at several on-site roadway measurement locations. The predicted sound levels were compared to measured sound levels to evaluate the noise model accuracy.

Details of the model validation results are shown by way of tables and figures in Appendix C. Table C-1 shows the measured sound level, predicted sound level, and difference, at each validation location. A number of measurement locations were outside of the rail yard where the line-of-sight between the plant and microphone was obscured by rail cars. Predicted levels immediately behind the rail cars are not reliable; therefore, model validation was not assessed at these points. Measured and predicted levels are provided at these locations for information purposes.

Typically good agreement is achieved when the measured and predicted sound levels are within ± 3 dBA. Over three quarters of the 44 validation points show agreement to within 3 dBA. Two validation points show disagreement over 5 dBA:

- R24 (under-predicting by 10 dBA) located near the southwest side of the Steam Water Treatment Plant #31.
- R36 (over-predicting by 8 dBA) located north of the C-902 compressor building and piping.

These two plant areas should be investigated as part of a future noise model update. Although they represent local defects in the model, they do not invalidate the noise model as a whole. These local defects will not significantly impact the predicted facility noise contribution at off-site receptor locations.

The average difference between the measured and predicted sound levels is +0.7 dBA, indicating the model is generally accurate. Figure C-1 shows the validation locations on the site

plot-plan, overlaid on top of the validation model noise map. Figure C-2 is a graphical presentation of the validation results.

6.0 OFF-SITE PREDICTED SOUND LEVELS

The RFO facility sound level contribution has been predicted at six off-site locations, which are identified in Figure 9. The distance and direction of these receptors from the RFO fence line are provided in Table 1. Five of these locations, identified as "Rxx", are receptors for the original (2001) RFO noise model. Two of the locations, identified as "NCIA x" are NCIA RNMP 2014 noise monitoring locations. Predictions were conducted using the both the pre-update noise model (as represented in the 2014 NCIA RNM) and the post-update (2016) noise model. Corresponding noise contour maps are provided in Appendix D. All predictions correspond to downwind (7.5 km/h) summertime ground and atmospheric conditions that are consistent with the NCIA RNM.



Figure 9: RFO Noise Receptor Locations (Image © 2016 Google)

Receptor	Direction	Distance
NCIA 7 / R18	W	1.7 km
R29	NNW	2.0 km
R52	NE	1.9 km
NCIA 6	E	1.6 km
R58	SE	1.5 km
R21	SW	1.0 km

Table 1: Receptor Distance and Direction from RFO Fenceline

6.1 Comparison of Pre- and Post-Update Prediction Results

The predicted sound level contribution of the RFO site at each receptor is shown in Table 2, along with the difference between the pre- and post-update results. The updated model results in an increase in predicted sound level contributions at five of six receptors, and a decrease at one receptor. The greatest increase in predicted sound level is approximately 4 dBA for two receptors east of the site. The greatest decrease in predicted sound level is approximately 1 dBA for one receptor west of the site.

	RFO Sound Pressure Level Contribution (dBA Leq)						
Receptor	2014 RNM	2016 Update	Difference (2016 Update - 2014 RNM)				
NCIA 7 / R18	38.7	38.0	-0.7				
R29	39.6	40.3	0.7				
R52	38.6	42.4	3.8				
NCIA 6	41.9	45.4	3.5				
R58	42.7	44.2	1.5				
R21	42.5	42.9	0.4				

 Table 2: Predicted Sound Level Contributions at each Receptor

6.2 Order Ranked Lists

Appendix E provides order–ranked lists of the top 100 noise source contributions at four receptors (NCIA 7 / R18, R52, NCIA 6, and R21). These lists identify noise sources that have the highest impact at each receptor, and identify noise sources that have a significant impact in various directions from the site.

The order-ranked lists for receptors R52 and NCIA 6 show that the 30# steam vent is the dominant noise at these locations. Further, the dominance of the 30# steam vent at these locations indicates that the increase in predicted sound level to the east of the facility can be attributed primarily to the addition of this steam vent in the model. Note that the model assumes only one of the two 30# steam vents is operating at high flow rates (95,000 lb/hr).

Both 30# steam vents are equipped with silencers; however, they do not provide adequate noise attenuation. Agrium has initiated a silencer replacement project with the goal of attenuating the vent noise level to 82 dBA at 3 ft from the equipment, 5 ft above grade. If

successful, this silencer replacement project will eliminate the 30# steam vents as dominant contributors to off-site noise levels.

6.3 Discussion of Updated Model with respect to NCIA Noise Monitoring Results

The 2013 and 2014 NCIA noise monitoring programs have shown that the measured noise levels to the east of the RFO site (NCIA 6) exceed those predicted by the RNM during the nighttime³. While it is not possible to identify the exact value of the discrepancy due to the variations in plant operating conditions and atmospheric conditions, the measured levels are higher than the pre-update RNM prediction by approximately 5 dBA. The NCIA survey results are reproduced in Table 3, along with the results of the survey conducted by SLR. These measurement results have all been processed (isolated) to remove contributions from non-industrial noise sources.

Observations at NCIA 6 indicate that the measured noise levels are dominated by noise emissions from the RFO facility. This implies that the pre-update noise model was underpredicting the environmental noise emissions from the RFO site. The model update prediction for NCIA 6 is 45.4 dBA, which is significantly closer to the noise monitoring results shown in Table 3. Future NCIA RNM predictions that incorporate the 2016 update to the RFO noise model should show improved agreement with noise monitoring results at receptor NCIA 6.

Measured Isolated Nighttime Sound Level Contribution (dBA Leq)								
Aug 21-22, 2013 ¹	Aug 22-23, 2013 ¹	Aug 13-14, 2014 ²	Aug 14-15, 2014 ²	Aug 10-11, 2016 ³				
47.1	43.0	46.3	46.3	46.8				

 Table 3: Measured Isolated Nighttime Sound Level at Receptor NCIA 6

¹ NCIA, NCIA Regional Noise Management Plan (RNMP) Annual Report, September 2014.

² NCIA, NCIA Regional Noise Management Plan (RNMP) Annual Report, January 2016.

³ SLR Project No.: 203.50500.00000

7.0 CONCLUSION

Agrium is a member company of the NCIA and a participant in the NCIA RNMP. As an NCIA member, Agrium is required to provide and maintain a noise model of the RFO site for the NCIA RNM. RNM noise predictions for the RFO area have not been consistent with NCIA noise monitoring results, and suggest that measured RFO site noise contributions are higher than predicted on the east side of the site. To resolve this issue, Agrium has completed an update of the RFO noise model.

Approximately 50 of the over 400 noise sources in the model have been measured and updated in the model. The most significant changes are noise from open building doors that were previously assumed closed, and addition of the Phos 30# steam vent to the noise model. The updated model has been validated by comparison of predicted and measured noise levels on the plant roadways, which show it to be generally accurate. At two roadway locations the

³ NCIA, *NCIA Regional Noise Management Plan (RNMP) Annual Report,* January 2016.

predicted levels were not consistent with the measured levels; these locations should be further investigated during the next model update project, but they do not invalidate the overall model.

The updated noise model was used to predict the RFO facility noise contributions at six off-site receptor locations. These include receptors used for previous RFO noise studies and receptors corresponding to two NCIA noise monitoring locations. The model update indicates an increase in predicted sound level contributions at five receptors and a decrease at one receptor. The greatest increase in predicted sound level is approximately 4 dBA for receptors east of the RFO site. A sound level decrease of approximately 1 dBA is predicted for one receptor west of the site. The increase in predicted sound level on the east side of the site is primarily attributed to the Phos 30# steam vent.

The RFO noise model update indicates an increase of 3.5 dBA in RFO site noise contributions at the NCIA 6 receptor. This change in the RFO noise model predictions is expected to improve agreement between the next update to the RNM and the NCIA noise monitoring results for the RFO area.

8.0 STATEMENT OF LIMITATIONS

This report has been prepared and the work referred to in this report has been undertaken by SLR Consulting (Canada) Ltd. (SLR) for Agrium Inc., hereafter referred to as the "Client". It is intended for the sole and exclusive use of the Client. The report has been prepared in accordance with the Scope of Work and agreement between SLR and the Client. Other than by the Client and as set out herein, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of SLR.

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Opinions and recommendations contained in this report are based on conditions that existed at the time the services were performed and are intended only for the client, purposes, locations, time frames and project parameters as outlined in the Scope or Work and agreement between SLR and the Client. The data reported, findings, observations and conclusions expressed are limited by the Scope of Work. SLR is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. SLR does not warranty the accuracy of information provided by third party sources.

CB/NM

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APPENDIX A Plant Operating Conditions

Agrium Inc. 2016 Agrium Redwater Noise Model Update SLR Project No.: 203.50100.00000

Environmental Noise Monitoring – Unit Operation Performance Summary August 8-9/16 (SLR Consultants)							
SOURCE IDENTIFICATION	August 8/16 (Up/Down/Rate?)	August 9/16 (Up/Down/Rate?)	Comments (Process issues, Venting, Flaring, anything contributing to elevated environmental noise, etc.)				
Granulation - East Train Process Unit	Up at 90 tph of MAP Down 12:45 – 1:30 Up at 90 tph of MAP till 4:15 Rate cut to 75 tph of MAP Down 7:30 – 19:30 Up at 90 tph of MAP	Up at 90 tph of MAP Down 6:00 – 16:00 Up at 80 tph of MAP	Down times were due to build up in the granulator; washed out the granulator with minor maintenance occurring too.				
Granulation - West Train Process Unit	Running at 45 tph of AS; Limited to 32-34 tph when East down	Running at 45 tph of AS; Limited to 32-34 tph when East down	Running normal.				
Phosphoric Acid Process Unit	00:00-05:15, rate 1100 tpd 05:15-14:00, rate 750 tpd 14:00-23:30, rate 350 tpd 23:30-23:59, rate ramping up to 650-700 tpd	00:00-05:45, rate 650-700 tpd 05:45-18:45, rate 350 tpd 18:45-23:59, rate 400 tpd	Unit at reduced rates due to East Train Granulation down, evaporator capacity reduced and steam venting increased. Table of rates and vent rates attached below.				
Sulphuric Acid I Process Units	Running at 2025 tpd	Running at 2000 tpd	Unit running steady.				
Sulphuric Acid II Process Units	Running at 1215 tpd	Running at 1215 tpd	Unit running steady.				
SOURCE IDENTIFICATION	August 8/16 (Up/Down/Rate?)	August 9/16 (Up/Down/Rate?)	Comments (Process issues, Venting, Flaring, anything contributing to elevated environmental noise, etc.)				
Ammonia I Process Unit	117% to 120% to 118%	118% to 119%	Normal rate changes. No venting, flaring or other issues contributing to noise.				
Ammonia II Process Unit	113% to 116% to 106% to 116%	116% to 116.5% to 111% to 115%	Normal rate changes. No venting, flaring or other issues contributing to noise.				
Ammonium Nitrate Process Unit	108%	108%	Normal operation with no unusual flaring, venting, upsets, etc.				
Nitric Acid Process Unit	113%	113%	Normal operation with no unusual flaring, venting, upsets, etc.				
Urea Process Unit	127%	127%	Normal operation.				
Utilities 30# Steam Vents	Rates changed, see comments and below	Rates changed, see comments and below	See below table and graph (see excel sheet for both 30# steam vent rates and data from the 10-11 th).				

A21F156.PV 06CC664.PV TONNE/D MLBSH **30# STEAM VENT PHOS** PHOS ACID UNIT PRODUCTION RATE Timestamp A21F156.PV - Average 06CC664.PV - Average 8/8/2016 0.5 1100 8/8/2016 1:00 1.7 1100 8/8/2016 2:00 0.0 1100 8/8/2016 3:00 0.0 1100 1.3 8/8/2016 4:00 1007 7.9 8/8/2016 5:00 750 8/8/2016 6:00 10.7 750 8/8/2016 7:00 18.1 750 8/8/2016 8:00 53.9 750 8/8/2016 9:00 62.1 750 750 8/8/2016 10:00 63.5 8/8/2016 11:00 750 66.7 8/8/2016 12:00 76.2 750 95.0 8/8/2016 13:00 732 8/8/2016 14:00 95.0 550 8/8/2016 15:00 95.0 550 8/8/2016 16:00 95.0 372 8/8/2016 17:00 95.0 350 8/8/2016 18:00 95.0 350 95.0 350 8/8/2016 19:00 8/8/2016 20:00 89.5 350 8/8/2016 21:00 68.9 350 8/8/2016 22:00 61.7 350 8/8/2016 23:00 73.6 553 8/9/2016 0:00 80.4 650 8/9/2016 1:00 90.2 661 8/9/2016 2:00 93.3 665

Tabular relationship between Granulation East Train Process Unit (ET), Phos Acid Process Unit (PA) rate, and Phos 30# Steam Venting (A21F156). (ET goes down reducing requirement for PA, PA reduces steam to evaporation tanks and rate, and therefore steam vent rate is increased)

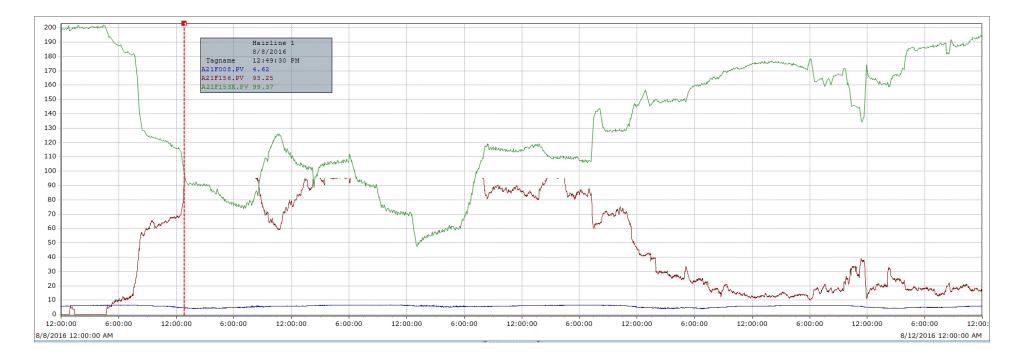
	A21F156.PV	06CC664.PV
	MLBSH	TONNE/D
	30# STEAM VENT PHOS	PHOS ACID UNIT PRODUCTION RATE
Timestamp	A21F156.PV - Average	06CC664.PV - Average
8/9/2016 3:00	94.0	685
8/9/2016 4:00	95.0	700
8/9/2016 5:00	95.0	661
8/9/2016 6:00	94.7	350
8/9/2016 7:00	95.0	350
8/9/2016 8:00	95.0	350
8/9/2016 9:00	95.0	350
8/9/2016 10:00	95.0	350
8/9/2016 11:00	95.0	350
8/9/2016 12:00	95.0	350
8/9/2016 13:00	95.0	350
8/9/2016 14:00	95.0	350
8/9/2016 15:00	95.0	350
8/9/2016 16:00	95.0	350
8/9/2016 17:00	95.0	350
8/9/2016 18:00	95.0	368
8/9/2016 19:00	95.0	386
8/9/2016 20:00	85.2	390
8/9/2016 21:00	88.5	399
8/9/2016 22:00	86.3	400
8/9/2016 23:00	87.6	400
8/10/2016 0:00	84.4	400

Graphical relationship between Granulation East Train Process Unit (ET), Phos Acid Process Unit (PA) rate, and Phos 30# Steam Venting (A21F156). (ET goes down reducing requirement for PA, PA reduces steam to evaporation tanks and rate, and therefore steam vent rate is increased)

30# venting was at maximum measurable from:

- -
- Aug 8: 12:52PM to 8:20PM Aug 9: 2:24AM to 7:56PM -

Please see below trend (maroon line - main vent flow, green line - total steam flow to evaps).



APPENDIX B Equipment Sound Power Levels

Agrium Inc. 2016 Agrium Redwater Noise Model Update SLR Project No.: 203.50100.00000

Sound Power Level (dB)				
Equipment Noise Source	Equipment Noise Source Before			
Tag/Description	Update	Updated	Change	Remarks
3201 cell 1	107.5	107.5	0.0	
3201 cell 1 motor	81.4	81.4	0.0	
3201 cell 2	107.5	107.5	0.0	
3201 cell 2 motor	81.4	81.4	0.0	
3201 cell 3	107.5	107.5	0.0	
3201 Cell 3 Drive Motor	81.4	81.4	0.0	
3201 cell 4	107.5	107.5	0.0	
3201 Cell 4 Drive Motor	81.4	81.4	0.0	
3201 cell 5	107.5	107.5	0.0	
3201 Cell 5 Drive Motor	81.4	81.4	0.0	
3201 cell 6	107.5	107.5	0.0	
3201 Cell 6 Drive Motor	81.4	81.4	0.0	
3201 Cell 7 Drive Motor	81.4	81.4	0.0	
36 drive motor Cell 1	89.1	89.1	0.0	
36 drive motor Cell 2	89.1	89.1	0.0	
36 drive motor Cell 3	89.1	89.1	0.0	
36 drive motor Cell 4	89.1	89.1	0.0	
36 drive motor Cell 5	89.1	89.1	0.0	
36 drive motor Cell 6	89.1	89.1	0.0	
36 drive motor Cell 7	89.1	89.1	0.0	
Hyd Power Pack	89.0	89.0	0.0	
09 ID Fan 01	81.4	81.4	0.0	
09 ID Fan 02	81.4	81.4	0.0	
09 ID Fan 03	81.4	81.4	0.0	
09 ID Fan 04	81.4	81.4	0.0	
Boiler 1 FD Fan	116.0	116.0	0.0	
Boiler 2 FD Fan	103.1	103.1	0.0	
Boiler 3 FD Fan	110.9		-110.9	Fan Insignificant
R0401 Urea A Gran Air Inlet	7.1	7.1	0.0	
R0401 Urea B Gran Air Inlet	7.1	7.1	0.0	
R0401 Urea C Gran Air Inlet	7.1	7.1	0.0	
R0401 Urea D Gran Air Inlet	7.1	7.1	0.0	
SA1 Blower Inlet Filter	105.5	124.9	19.4	Updated
3201 cell 7	107.5	107.5	0.0	
3201 cell 8 motor	81.4	81.4	0.0	
Boiler 1 Inlet	105.6	105.6	0.0	
Boiler 1 Stack	91.1	91.1	0.0	
Boiler 1 Stack	96.0	96.0	0.0	
Boiler 1 Stack	93.3	93.3	0.0	
Boiler 2 Inlet	98.5	98.5	0.0	
Boiler 3 Inlet	104.4		-104.4	Inlet Insignificant
01 Furnace East Face Burner 2	105.1	105.1	0.0	
01 Furnace East Face Burner 3	105.1	105.1	0.0	
01 Furnace East Face Burner 1	105.1	105.1	0.0	
01 Furnace West Face Burner 1	105.1	105.1	0.0	
	100.1	100.1	0.0	

	Sound Power Level (dB)			
Equipment Noise Source	Before			
Tag/Description	Update	Updated	Change	Remarks
01 Furnace West Face Burner 2	105.1	105.1	0.0	
01 Furnace West Face Burner 3	105.1	105.1	0.0	
East 09 Furnace East Face attemp	114.9	114.9	0.0	
East 09 Furnace West Face attemp	114.7	114.7	0.0	
O1 Furnace N Fan Exhaust	105.9	105.9	0.0	
O1 Furnace S Fan Exhaust	104.5	104.5	0.0	
01 Furnace Fuel Gas Pipe	106.9	106.9	0.0	
302 1st stage discharge 2	112.1	112.1	0.0	
Boiler 1 Inlet Duct	99.8	99.8	0.0	
Boiler 2 Inlet Duct	101.8	101.8	0.0	
Boiler 3 Inlet Duct	108.0	108.0	0.0	
C902 1st stage discharge	117.1	113.4	-3.7	Updated (GCT 902 Project)
C902 1st stage discharge E925 He	107.2	107.1	-0.1	Updated (GCT 902 Project)
C902 1st stage suction dn sil	108.2	109.1	0.9	Updated (GCT 902 Project)
C902 1st stage suction up sil	98.7	101.1	2.4	Updated (GCT 902 Project)
C902 2nd stage discharge	105.1	109.6	4.5	Updated (GCT 902 Project)
C902 2nd stage discharge	110.7	110.7	0.0	
C902 2nd stage suction	107.8	116.6	8.8	Updated (GCT 902 Project)
C902 3rd stage suction	113.9	111.7	-2.2	Updated (GCT 902 Project)
C902 4th stage discharge	111.5	111.5	0.0	
C902 header	95.3	95.3	0.0	
GT Exhaust Duct to Reformer 12ft	102.1	102.1	0.0	
GT Exhaust Duct to Reformer 4ft	96.0	96.0	0.0	
GT Exhaust Duct to Reformer 4ft	96.0	96.0	0.0	
GT Exhaust Duct to Reformer 4ft	96.0	96.0	0.0	
GT Exhaust Duct to Reformer 4ft	96.0	96.0	0.0	
GT Exhaust Duct to Reformer 6ft	99.1	99.1	0.0	
GT Exhaust Duct to Reformer 8ft	102.1	102.1	0.0	
GT Exhaust Duct to Reformer 8ft	102.1	102.1	0.0	
SA1 Blower Discharge	113.3	106.3	-7.0	Geometry Updated
SA2 Blower Inlet Pipe	108.1	98.1	-10.0	Updated
SA2 Blower outlet Pipe	110.1	110.1	0.0	
Gas Supply Valve	104.3	104.3	0.0	
west 09 Furnace East Face attemp	114.9	114.9	0.0	
west 09 Furnace West Face attemp	114.9	114.9	0.0	
150lb steam CV	102.7	102.7	0.0	
150lb steam CV	105.3	105.3	0.0	
150lb steam CV	108.3	108.3	0.0	
ANU Process Vent	97.8	97.8	0.0	
CO2 Vent	89.5	89.5	0.0	
CO2 Vent Am1	102.2	102.2	0.0	
Dry Vent	7.1	7.1	0.0	
Gran E Baghouse Vent	7.1	7.1	0.0	
Gran W Vap Vent	7.1	7.1	0.0	
R0401 North Mid Tall Section Ine	91.9	91.9	0.0	

	Sound Power Level (dB)			
Equipment Noise Source	Before			
Tag/Description	Update	Updated	Change	Remarks
Urea Process Vent	84.0	84.0	0.0	
Vent 50lb steam	100.3	100.3	0.0	
Wet Vent	7.1	7.1	0.0	
Ammonia Dearator Vent	113.0	113.0	0.0	
AN Brinks	112.9	112.9	0.0	
Hyd vibrator for screw conv	108.3	108.3	0.0	
Urea Granulation L0451	86.7	86.7	0.0	
AN Prill Tower 1	104.8	104.8	0.0	
AN Prill Tower 2	104.8	104.8	0.0	
AN Prill Tower 3	104.8	104.8	0.0	
AN Prill Tower 4	104.8	104.8	0.0	
AN Prill Tower 5	104.8	104.8	0.0	
AN Prill Tower 6	104.8	104.8	0.0	
AN Prill Tower 7	104.8	104.8	0.0	
AN Prill Tower 8	104.8	104.8	0.0	
R2421 East Wall Dust Collector	89.9	89.9	0.0	
31 Tower East Face	81.0	81.0	0.0	
31 Tower North Face	84.6	84.6	0.0	
31 Tower South Face	84.6	84.6	0.0	
31 Tower West Face	81.0	81.0	0.0	
32 Water Splash	107.5	107.5	0.0	
Cooling Tower 36 Cell 1	109.2	109.2	0.0	
Cooling Tower 36 Cell 2	109.2	109.2	0.0	
Cooling Tower 36 Cell 3	109.2	109.2	0.0	
Cooling Tower 36 Cell 4	109.2	109.2	0.0	
Cooling Tower 36 Cell 5	109.2	109.2	0.0	
Cooling Tower 36 Cell 6	109.2	109.2	0.0	
Cooling Tower 36 Cell 7	109.2	109.2	0.0	
Roof 31 Tower	81.2	81.2	0.0	
SA 2 CT N Face	107.0	107.0	0.0	
SA 2 CT S Face	107.0	107.0	0.0	
SA1 CT East Face	99.3	99.3	0.0	
SA1 CT West Face	92.3	92.3	0.0	
Watersplash 36 Tower East	108.8	108.8	0.0	
Watersplash 36 Tower West	108.8	108.8	0.0	
01 Ammonia Comp Bldg East Wall	76.3	76.3	0.0	
01 Ammonia Comp Bldg East Wall	86.4	86.4	0.0	
01 Ammonia Comp Bldg East Wall	94.1	94.1	0.0	
01 Ammonia Comp Bldg N Top E		101.7		Added, Open Door
01 Ammonia Comp Bldg N Top W		101.7		Added, Open Door
01 Ammonia Comp Bldg North Wall		84.7		Added, Open Door
01 Ammonia Comp Bldg South Wall	82.7	82.7	0.0	
01 Ammonia Comp Bldg South Wall	80.8	80.8	0.0	
01 Ammonia Comp Bldg West Wall	85.5	85.5	0.0	
01 Ammonia Furnace Fan Enclosure	75.2	75.2	0.0	

Equipment Noise Source Tag/Description Before Update Updated Change Remarks 01 Ammonia Furnace Fan Enclosure 102.8 102.8 0.0 0 01 Ammonia Furnace Fan Enclosure 102.8 102.8 0.0 0 01 Ammonia Furnace Fan Enclosure 102.8 102.8 0.0 0 01 Ammonia Furna Edga South Wall 83.9 83.9 0.0 0 01 Ammonia Furng Bldg Vest Wall 77.6 77.6 0.0 0 01 Ammonia Furng Bldg West Wall 93.0 93.0 0.0 0 01 Furnace North Face 109.4 109.4 0.0 0 01 Furnace North Face 101.5 101.5 0.0 0 01 Furnace South Face 109.4 109.4 0.0 0 01 Furnace North Face 101.5 101.5 0.0 0 03 Furnace North Face 101.5 10.1 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0		Sound Power Level (dB)			
Tag/Description Update Updated Change Remarks 01 Ammonia Fumace Fan Enclosure 79.3 79.3 0.0 0 01 Ammonia Fumace Fan Enclosure 79.3 79.3 0.0 0 01 Ammonia Fumace Fan Enclosure 79.3 79.3 0.0 0 01 Ammonia Pump Bidg Vest Wall 83.9 80.0 0 0 01 Ammonia Pump Bidg West Wall 77.6 77.6 0.0 0 01 Ammonia Pump Bidg West Wall 77.6 77.6 0.0 0 01 Ammonia Pump Bidg West Wall 77.6 77.6 0.0 0 01 Fumace North Face 101.4 111.6 0.0 0 01 Fumace North Face 109.4 109.4 0.0 0 01 Fumace South Face 101.5 101.5 0.0 0 01 Fumace South Face 109.4 109.4 0.0 0 03 Arc Compressor Building North 85.1 85.1 0.0 0 09 Air Compressor Building South Wall 87.6 87.6	Equipment Noise Source	Before			
01 Ammonia Furnace Fan Enclosure 102.8 102.8 0.0 01 Ammonia Furna EG An Enclosure 79.3 79.3 0.0 01 Ammonia Furnp Bidg North Wall 83.9 83.9 0.0 01 Ammonia Pump Bidg South Wall 83.9 83.9 0.0 01 Ammonia Pump Bidg West Wall 77.6 77.6 0.0 01 Furnace East Face 111.6 111.6 0.0 01 Furnace North Face 109.4 109.4 0.0 01 Furnace South Face Void 101.5 0.0 0 01 Furnace South Face Void 101.5 101.5 0.0 01 Furnace South Face Void 101.5 10.0 0 04 Air Compressor Building East 92.3 92.3 0.0 05 Air Compressor Building North 85.1 85.1 0.0 09 Air Compressor Building West 90.7 90.7 0.0 09 North Building South Wall 87.6 87.6 0.0 09 South Intermediate Building N 81.8 81.8 0.0 09 South Intermediate Building N 81.7 87.2 0.0 09 South Intermediate Building N			Updated	Change	Remarks
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01 Ammonia Pump Bidg North Wall 83.9 83.9 0.0 01 Ammonia Pump Bidg West Wall 93.0 93.0 0.0 01 Ammonia Pump Bidg West Wall 93.0 93.0 0.0 01 Furnace East Face 111.6 111.6 0.0 01 Furnace North Face 109.4 109.4 0.0 01 Furnace North Face 109.4 109.4 0.0 01 Furnace South Face 109.4 109.4 0.0 01 Furnace South Face 109.4 109.4 0.0 01 Furnace South Face Void 101.5 101.5 0.0 01 Furnace West Face 111.6 111.6 0.0 09 Air Compressor Building North 85.1 85.1 0.0 09 Air Compressor Building North 85.1 85.1 0.0 09 Arc Compressor Building West 92.3 92.3 0.0 09 North Building Korth Wall 87.6 87.6 0.0 09 South Intermediate Building N 81.7 81.7 0.0 09 South Intermediate Building N 81.8 80.0 0.0 09 South Intermediate Building N 81.7 8	01 Ammonia Furnace Fan Enclosure	102.8	102.8	0.0	
01 Ammonia Pump Bidg South Wall 83.9 83.9 0.0 01 Ammonia Pump Bidg West Wall 77.6 77.6 0.0 01 Ammonia Pump Bidg West Wall 93.0 93.0 0.0 01 Furnace East Face 111.6 111.6 0.0 01 Furnace North Face 109.4 109.4 0.0 01 Furnace North Face 109.4 109.4 0.0 01 Furnace South Face Void 101.5 101.5 0.0 01 Furnace South Face Void 101.5 101.5 0.0 09 Air Compressor Building East 92.3 92.3 0.0 09 Air Compressor Building North 85.1 85.1 0.0 09 Air Compressor Building North 85.1 85.1 0.0 09 North Building East Wall 90.7 9.0 0 09 North Building South Wall 87.6 87.6 0.0 09 North Building Neth wall 87.7 87.2 0.0 09 South Intermediate Building N 81.7 81.7 0.0 09 South Intermediate Building N 81.7	01 Ammonia Furnace Fan Enclosure	79.3	79.3	0.0	
01 Ammonia Pump Bidg West Wall 77.6 77.6 0.0 01 Ammonia Pump Bidg West Wall 93.0 0.0 0.0 01 Furnace East Face 111.6 111.6 0.0 01 Furnace North Face Void 101.5 109.4 0.0 01 Furnace South Face Void 101.5 101.5 0.0 01 Furnace South Face Void 101.5 101.5 0.0 01 Furnace South Face Void 101.5 101.5 0.0 09 Air Compressor Building South 85.1 85.1 0.0 09 Air Compressor Building North 85.1 85.1 0.0 09 Air Compressor Building North 85.1 85.1 0.0 09 Air Compressor Building North 87.6 87.6 0.0 09 North Building North wall 87.6 87.6 0.0 09 North Building West Wall 90.7 0.0 0.0 09 South Intermediate Building N 81.7 81.7 0.0 09 South Intermediate Building N 81.8 86.8 0.0 09 South Intermediate Building W 76.4	01 Ammonia Pump Bldg North Wall	83.9	83.9	0.0	
01 Ammonia Pump Bidg West Wall 77.6 77.6 0.0 01 Ammonia Pump Bidg West Wall 93.0 0.0 0.0 01 Furnace East Face 111.6 111.6 0.0 01 Furnace North Face Void 101.5 109.4 0.0 01 Furnace South Face Void 101.5 101.5 0.0 01 Furnace South Face Void 101.5 101.5 0.0 01 Furnace South Face Void 101.5 101.5 0.0 09 Air Compressor Building South 85.1 85.1 0.0 09 Air Compressor Building North 85.1 85.1 0.0 09 Air Compressor Building North 85.1 85.1 0.0 09 Air Compressor Building North 87.6 87.6 0.0 09 North Building North wall 87.6 87.6 0.0 09 North Building West Wall 90.7 0.0 0.0 09 South Intermediate Building N 81.7 81.7 0.0 09 South Intermediate Building N 81.8 86.8 0.0 09 South Intermediate Building W 76.4		83.9	83.9	0.0	
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01 Furnace East Face 111.6 111.6 111.6 0.0 01 Furnace North Face 109.4 109.4 0.0 01 Furnace North Face Void 101.5 101.5 0.0 01 Furnace South Face 109.4 109.4 0.0 01 Furnace West Face 101.5 101.5 0.0 09 Air Compressor Building East 92.3 92.3 0.0 09 Air Compressor Building North 85.1 85.1 0.0 09 Air Compressor Building South 85.1 85.1 0.0 09 Air Compressor Building South 85.1 85.1 0.0 09 North Building North wall 87.6 87.6 0.0 09 North Building North wall 87.6 87.6 0.0 09 South Intermediate Building N 81.7 81.7 0.0 09 South Intermediate Building N 81.8 81.8 0.0 09 South Intermediate Building W 87.2 87.2 0.0 09 South Intermediate Building W 86.8 86.8 0.0 ANU Prill Tower Opening 1 <t< td=""><td>01 Ammonia Pump Bldg West Wall</td><td>93.0</td><td>93.0</td><td>0.0</td><td></td></t<>	01 Ammonia Pump Bldg West Wall	93.0	93.0	0.0	
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	Building 31 West Wall Door	95.3	95.3	0.0	

	Sound Power Level (dB)			
Equipment Noise Source	Before			
Tag/Description	Update	Updated	Change	Remarks
Building 31 West Wall 2	78.7	78.7	0.0	
Copco Compressor Room 31 East Wa	81.1	81.1	0.0	
Copco Compressor Room 31 South W	85.1	85.1	0.0	
Copco Compressor Room 31 West Wa	81.1	81.1	0.0	
E Face Inlet 201 Turbine		110.0		Updated (refined model)
E Face Nitric Tower 201	55.2	55.2	0.0	
East 09 Furnace East Face	105.5	105.5	0.0	
East 09 Furnace North Face	101.2	101.2	0.0	
East 09 Furnace South Face	101.2	101.2	0.0	
East 09 Furnace West Face	105.5	105.5	0.0	
East Boiler 1	98.1	98.1	0.0	
East Boiler 2	98.1	98.1	0.0	
East Boiler 3	99.5	99.5	0.0	
Gran South Building East wall	94.4	94.4	0.0	
Gran South Building South wall	91.6	91.6	0.0	
Gran South Building West wall	94.3	94.3	0.0	
louvre - Gran South Building Wes	96.1	96.1	0.0	
Main Building 201 E Face	82.7	82.7	0.0	
Main Building 201 S Face	78.3	78.3	0.0	
Main Building 201 W Face	82.7	82.7	0.0	
N extension Phos Acid East Wall	80.9	80.9	0.0	
N extension Phos Acid North Wall	95.0	95.0	0.0	
N extension Phos Acid West Wall	90.5	90.5	0.0	
N Face Inlet 201 Turbine	113.2	110.0	-3.2	Updated
N Face Nitric Tower 201	56.9	56.9	0.0	·
North Boiler 1	94.3	94.3	0.0	
North Boiler 2	94.3	94.3	0.0	
North Boiler 3	95.0	95.0	0.0	
North CM103 Ext east wall	78.0	78.0	0.0	
North CM103 Ext north wall	80.5	80.5	0.0	
North CM103 Ext west wall	78.0	78.0	0.0	
North Wall opening	107.2	107.2	0.0	
Phos Acid East Annex East Wall	85.9	85.9	0.0	
Phos Acid East Annex South Wall	80.9	80.9	0.0	
Phos Mid East Wall	94.7	94.7	0.0	
Phos Mid North Wall	99.3	99.3	0.0	
Phos Mid South Wall	99.3	99.3	0.0	
Phos Mid West Wall	94.7	94.7	0.0	
Phos North lower East Wall	87.8	87.8	0.0	
Phos North lower North Wall	95.4	95.4	0.0	
Phos North lower West Wall	87.8	87.8	0.0	
Phos North upper East Wall	93.1	93.1	0.0	
Phos North upper North Wall	98.0	98.0	0.0	
Phos North upper North Wall open	100.9	100.9	0.0	
Phos North upper West Wall	93.1	93.1	0.0	

	Sound Power Level (dB)			
Equipment Noise Source	Before			
Tag/Description	Update	Updated	Change	Remarks
Phos Scrubber East Wall	87.0	87.0	0.0	
Phos Scrubber South Wall	88.1	88.1	0.0	
Phos South South Wall	98.2	98.2	0.0	
Phos South West Wall	93.1	93.1	0.0	
R0401 Mid Low Section East wall	86.1	86.1	0.0	
R0401 Mid Low Section North Wal	85.0	85.0	0.0	
R0401 Mid Low Section South wal	89.1	89.1	0.0	
R0401 Mid Low Section West wall	83.7	83.7	0.0	
R0401 Mid Low Section West Wall	82.4	82.4	0.0	
R0401 North Low Section East Wal	88.2	88.2	0.0	
R0401 North Low Section East Wal	88.2	88.2	0.0	
R0401 North Low Section North Wa	91.3	91.3	0.0	
R0401 North Low Section SouthWal	86.6	86.6	0.0	
R0401 North Low Section West Wal	83.6	83.6	0.0	
R0401 North Mid High Section Eas	89.8	89.8	0.0	
R0401 North Mid High Section Nor	89.7	89.7	0.0	
R0401 North Mid High Section Sou	80.4	80.4	0.0	
R0401 North Mid High Section Wes	84.4	84.4	0.0	
R0401 North Mid High Section Wes	88.4	88.0	-0.4	Geometry Updated
R0401 North Mid High Section Wes	84.9	84.9	0.0	Ceometry opdated
R0401 North Mid Tall Section eas	91.2	91.2	0.0	
R0401 North Mid Tall Section Nor	89.4	89.4	0.0	
R0401 North Mid Tall Section Sou	89.4	89.4	0.0	
R0401 North Mid Tall Section Wes	91.2	91.2	0.0	
R0401 opening in west wall		104.7		Added, Open Wall Section
R0401 S Mid Tall Section East Wa	86.4	86.4	0.0	
R0401 S Mid Tall Section Last Wa	92.8	92.8	0.0	
R0401 S Mid Tall Section North W	92.8	92.8	0.0	
R0401 S Mid Tall Section West Wa	92.8 86.4	92.8 86.4	0.0	
R0401 Urea South Building East W	89.1	89.1	0.0	
R0401 Urea South Building South		92.2		Updated, Model Refined
R0401 Urea South Building W Lou		92.2		Updated, Model Refined
R0401 Urea South OH 1		101.1		Updated, Model Refined
R0401 Urea South OH 2		101.1		Updated, Model Refined
R0401 Urea South OH 3		101.1		Updated, Model Refined
R0401 Urea South OH 4				Updated, Model Refined
R0401 Orea South OH 4 R2421 East Wall	105 4	101.1 105.4		Opualeu, Model Kellheu
	105.4	105.4	0.0	
R2421 Fan Opening R2421 North Wall	107.4	107.4	0.0	
	100.2	100.2	0.0	
R2421 Roof	104.9	104.9	0.0	
R2421 South Wall	100.3	100.3	0.0	
R2421 West Wall	105.5	105.5	0.0	
R3502 Water Treatment Storage Ea	79.0 70.0	79.0	0.0	
R3502 Water Treatment Storage Ea	79.0	79.0	0.0	
R3502 Water Treatment Storage No	80.5	80.5	0.0	

	Sound Power Level (dB)			
Equipment Noise Source	Before			
Tag/Description	Update	Updated	Change	Remarks
R3502 Water Treatment Storage So	80.5	80.5	0.0	
Roof	104.6	104.6	0.0	
Roof 09 North Building	92.8	92.8	0.0	
Roof 01 Ammonia Comp Bldg	88.1	88.1	0.0	
Roof 01 Ammonia Pump Bldg	84.1	84.1	0.0	
Roof 01 Furnace	110.0	110.0	0.0	
Roof 09 Air Compressor Building	89.8	89.8	0.0	
Roof 09 South Intermediate Build	88.9	88.9	0.0	
Roof 201	81.6	81.6	0.0	
Roof 201 Tower	51.7	51.7	0.0	
Roof ANU R301	78.4	78.4	0.0	
Roof ANU R301conveyor	73.7	73.7	0.0	
Roof Building 31	90.3	90.3	0.0	
Roof Copco Compressor Room 31	85.3	85.3	0.0	
Roof East 09 Furnace	104.9	104.9	0.0	
Roof Gran South Building	94.2	94.2	0.0	
Roof N extension Phos Acid	93.2	93.2	0.0	
Roof phos acid building	87.5	87.5	0.0	
Roof Phos Mid	98.2	98.2	0.0	
Roof Phos North lower	95.2	95.2	0.0	
Roof Phos North upper	95.2	92.7	-2.5	
Roof Phos South	92.7	92.7	0.0	
Roof R0401 Mid Low Section	91.5	91.5	0.0	
Roof R0401 North Low Section	93.5	93.5	0.0	
Roof R0401 North Mid High Section	89.4	89.4	0.0	
Roof R0401 North Mid Tall Sectio	86.8	86.8	0.0	
Roof R0401 S Mid Tall Section	89.0	89.0	0.0	
Roof R0401 Urea South Building	93.9	93.9	0.0	
Roof R3502 Water Treatment Stora	87.7	87.7	0.0	
Roof S Annex Room 31	76.2	76.2	0.0	
Roof SA1 Blower Room	93.7	93.7	0.0	
Roof SA1 Cooling Tower Pump Hous	75.4	75.4	0.0	
Roof SA2 Blower Building	68.9	68.9	0.0	
Roof South Part Phos Building	87.5	87.5	0.0	
Roof South Part Phos Building Up	83.6	83.6	0.0	
S Annex Room 31 east Wall	67.0	67.0	0.0	
S Annex Room 31 South Wall	76.1	76.1	0.0	
S Face Inlet 201 Turbine	113.2	110.0	-3.2	Updated
S Face Nitric Tower 201	56.9	56.9	-3.2	opualeu
S face Phos Building	86.1	86.1	0.0	
SA1 Blower Room E man door		103.2		Added, Open Door
SA1 Blower Room East Wall	100.6	90.0	-10.6	Updated
SA1 Blower Room North Wall	99.8	90.0 89.7	-10.0	Updated
SA1 Blower Room South Wall	99.8 99.8	89.7 89.7	-10.1	Updated
SA1 Blower Room West Dbl Dr	99.0	106.2		Added, Open Door
SAT DIOWEL ROUTH WEST DDI DI		100.2		Added, Open Door

	Sound Power Level (dB)			
Equipment Noise Source	Before			
Tag/Description	Update	Updated	Change	Remarks
SA1 Blower Room West Wall	100.6	90.3	-10.3	Updated
SA1 Cooling Tower Pump House Nor	73.3	73.3	0.0	
SA1 Cooling Tower Pump House Nor	71.2	71.2	0.0	
SA1 Cooling Tower Pump House Sou	75.4	75.4	0.0	
SA1 Cooling Tower Pump House Wes	72.5	72.5	0.0	
SA1 Cooling Tower Pump House Wes	68.2	68.2	0.0	
SA1 Cooling Tower Pump House Wes	70.5	70.5	0.0	
SA2 Blower Building East OH		101.8		Added, Open Door
SA2 Blower Building North Wall	66.5	66.5	0.0	
SA2 Blower Building South 1 Wall	63.1	63.1	0.0	
SA2 Blower Building South 2 Wall	63.8	63.8	0.0	
SA2 Blower Building West 1 Wall	65.5	64.4	-1.1	
SA2 Blower Building West 2 Wall	59.4	59.4	0.0	
SA2 Blower Building West Wall	66.4	66.4	0.0	
SA2 Cooling Tower Pump House Eas	78.2	78.2	0.0	
SA2 Cooling Tower Pump House Nor	79.0	79.0	0.0	
SA2 Cooling Tower Pump House Sou	79.0	79.0	0.0	
SA2 Cooling Tower Pump House Wes	78.2	78.2	0.0	
South Part Phos Building East Wa	87.7	87.7	0.0	
South Part Phos Building Upper e	84.4	84.4	0.0	
South Part Phos Building Upper S	86.4	86.4	0.0	
South Part Phos Building Upper W	94.0	94.0	0.0	
South Part Phos Building West Wa	97.3	97.3	0.0	
South wall - Urea annex West	78.8	78.8	0.0	
South Wall opening	105.4	105.4	0.0	
W Face Inlet 201 Turbine		110.0		Updated (refined model)
W Face Nitric Tower 201	55.2	55.2	0.0	
W2 face Phos Building	95.5	95.0	-0.5	Updated (refined model)
W2 Phos Building open door 1		111.4		Added, Open Door
W2 Phos Building open door 2		111.4		Added, Open Door
W2 Phos Building open door 3		111.4		Added, Open Door
west 09 Furnace East Face	105.5	105.5	0.0	
west 09 Furnace South Face	100.9	100.9	0.0	
west 09 Furnace West Face	105.5	105.5	0.0	
West 09 Furnace North Face	100.9	100.9	0.0	
West Boiler 1	98.1	98.1	0.0	
West Boiler 2	98.1 98.1	98.1	0.0	
West Boiler 3	99.5	99.5	0.0	
West wall - Urea annex West	99.5 83.2	83.2	0.0	
09 Air Compressor Building West	100.3	100.3	0.0	
Phos Mid East Wall Fan 1	105.6	100.3	0.0	
Phos Mid South Wall Fan 3	105.6	105.6	0.0 3.8	
Phos Mid West Wall Fan 4	101.8	105.6	0.0	
Phos Scrubber East Wall Vent		105.6		
	105.6		0.0	
R2421 Low Level fan	94.0	94.0	0.0	

	Sound Power Level (dB)			
Equipment Noise Source	Before			
Tag/Description	Update	Updated	Change	Remarks
Vent Bldg 31	101.8	101.8	0.0	
1-P-125-1	99.6	99.6	0.0	
1-P-125-2	96.9	96.9	0.0	
1-P-203-1	98.2	98.2	0.0	
1-P-204-1	97.6	97.6	0.0	
1-P-204-2	101.8	101.8	0.0	
1-P-212	98.9	98.9	0.0	
1-P-213	99.2	99.2	0.0	
1-P-213 b	105.0	105.0	0.0	
1-P-218	100.6	100.6	0.0	
3201 cell 8	107.5	107.5	0.0	
Filter Vent Expansion Stack (D67	77.8	77.8	0.0	
Gran E Dryer	94.6	94.6	0.0	
Gran E Reactor	94.9	94.9	0.0	
Gran W Dryer	93.9	93.9	0.0	
Gran W Reactor	90.3	90.3	0.0	
Nitric Acid Combuster	93.5	93.5	0.0	
P2014A	90.3	90.3	0.0	
P2014B	90.3	90.3	0.0	
P20151A	102.0	102.0	0.0	
P20151A	95.4	95.4	0.0	
P20151A	87.3	87.3	0.0	
P20151A	88.3	88.3	0.0	
P20151A	90.4	90.4	0.0	
P20151A	86.0	86.0	0.0	
P20151A	83.6	83.6	0.0	
P20151A	92.0	92.0	0.0	
P20152	87.4	87.4	0.0	
P20153	88.5	88.5	0.0	
P2105	89.2	89.2	0.0	
P2106A	92.0	92.0	0.0	
Phos Attack Tk (D665)	85.1	85.1	0.0	
Phos Filter (D1014)	93.9	93.9	0.0	
PM20154A	90.3	90.3	0.0	
PM20154B	98.7	98.7	0.0	
PV006	95.0	95.0	0.0	
PV009	95.0	95.0	0.0	
PV206	87.9	87.9	0.0	
S.A 2 Stack	73.3	73.3	0.0	
SA-1Stack	90.9	90.9	0.0	
SA1 Mid Cooling Cell	100.5	100.5	0.0	
SA1 North Cooling Cell	100.5	100.5	0.0	
SA1 South Cooling Cell	100.5	100.5	0.0	
SA2 East Cooling Cell	99.2	99.2	0.0	
SA2 West Cooling Cell	99.2	99.2	0.0	

	Sound Power Level (dB)			
Equipment Noise Source Tag/Description	Before Update	Updated	Change	Remarks
Urea SV relief	7.1	7.1	0.0	
GCT 902 Fin-Fan Cooler East		89.3		Added
GCT 902 Fin-Fan Cooler North		86.8		Added
GCT 902 Fin-Fan Cooler South		87.3		Added
GCT 902 Fin-Fan Cooler West		89.5		Added
Phos 30# steam vent North		0.0		Added (not venting)
Phos 30# steam vent South		124.9		Added (venting at 95,000 lb/hr)
Redwater Site Total	129.3	131.8	2.5	

APPENDIX C Model Validation Tables and Figures

Agrium Inc. 2016 Agrium Redwater Noise Model Update SLR Project No.: 203.50100.00000

Table C-1

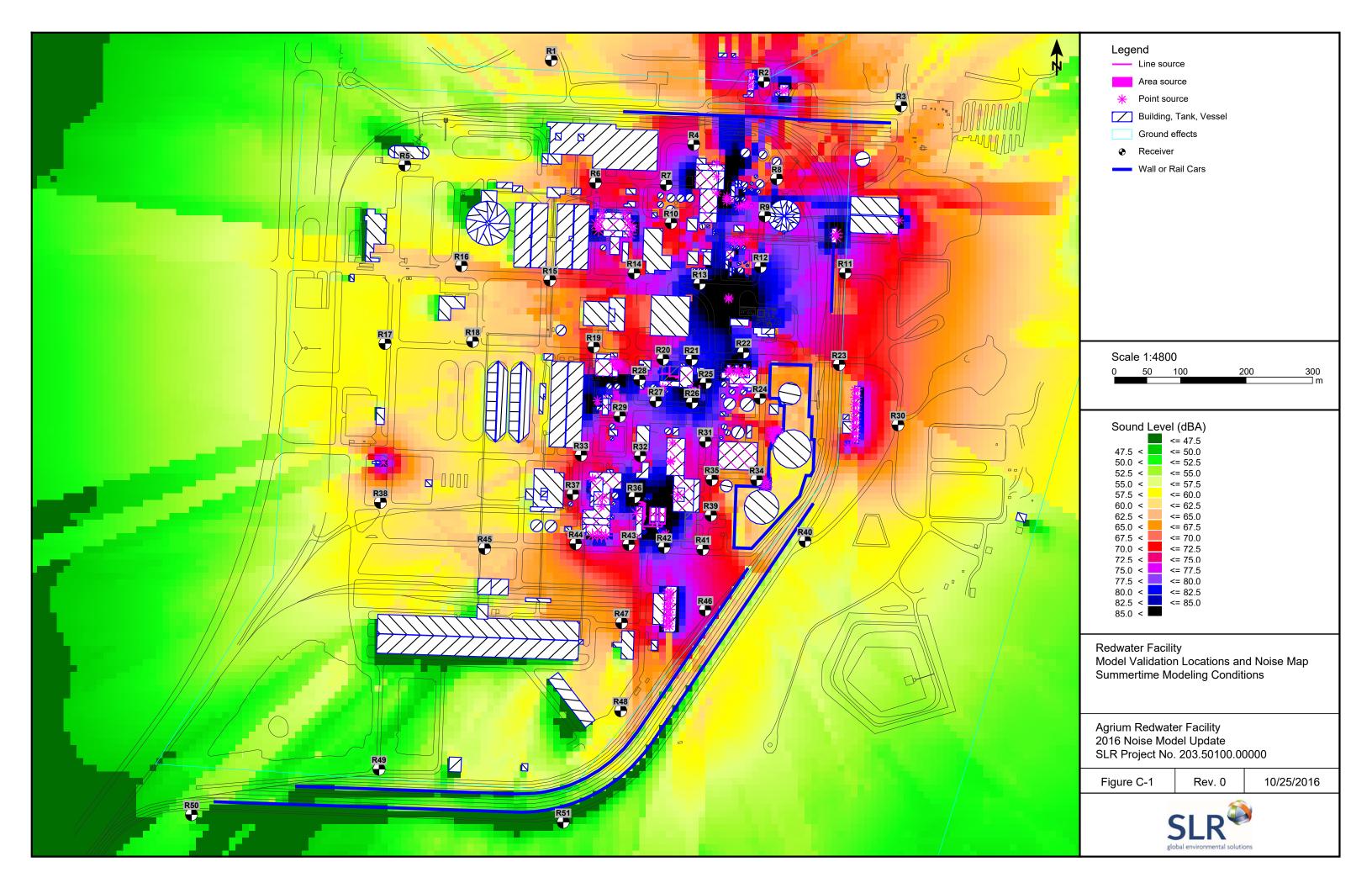
Model Validation Agrium Redwater Summertime Conditions

	Sound Pressure Level (dBA)		vel (dBA)	
Location				
Designation	Measured	Predicted	Difference	Remarks
R1	56.8	56.6	-0.2	
R2	69.6	76.3		Rail cars between location and plant
R3	54.4	61.0		Rail cars between location and plant
R4	72.9	74.5	1.6	
R5	54.3	56.6	2.3	
R6	68.4	71.3	2.9	
R7	74.3	75.5	1.2	
R8	69.6	70.7	1.1	
R9	77.5	75.3	-2.2	
R10	72.2	71.7	-0.5	
R11	65.7	71.7		Rail cars between location and plant
R12	77.0	81.1	4.1	Varriable Steam Vent Level
R13	84.4	82.7	-1.7	
R14	73.0	74.2	1.2	
R15	63.6	67.3	3.7	Varriable Steam Vent Level
R16	58.3	62.5	4.2	Varriable Steam Vent Level
R17	56.1	57.5	1.4	
R18	57.4	59.0	1.6	
R19	68.1	69.6	1.5	
R20	79.1	74.8	-4.3	
R21	80.3	80.0	-0.3	
R22	81.4	80.5	-0.9	
R23	65.3	70.7		Rail cars between location and plant
				Potential open door at south side of Steam Water Treatment Plt.
R24	79.3	69.3	-10.0	# 31
R25	82.3	85.6	3.3	
R26	83.6	84.7	1.1	
R27	81.3	78.9	-2.4	
R28	77.8	79.5	1.7	
R29	78.2	75.2	-3.0	
R30	68.2	66.5	-1.7	

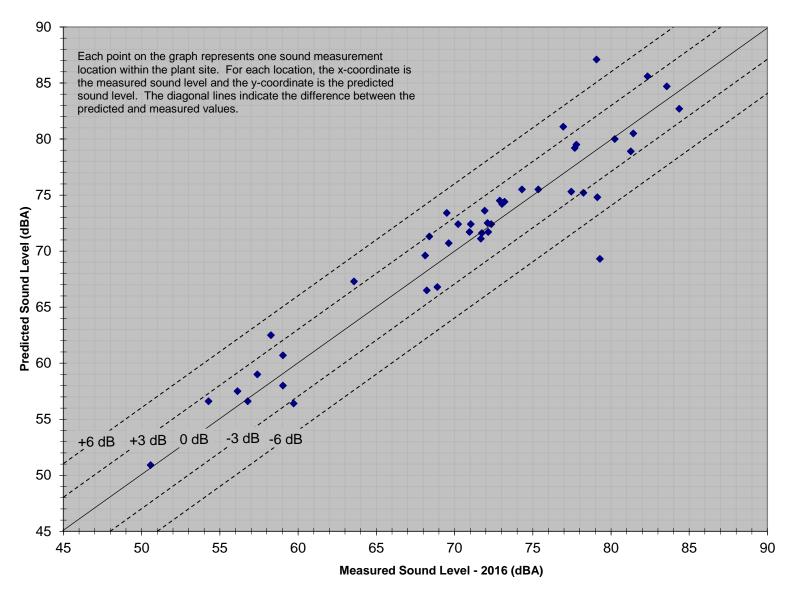
Table C-1

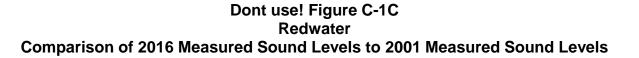
Model Validation Agrium Redwater Summertime Conditions

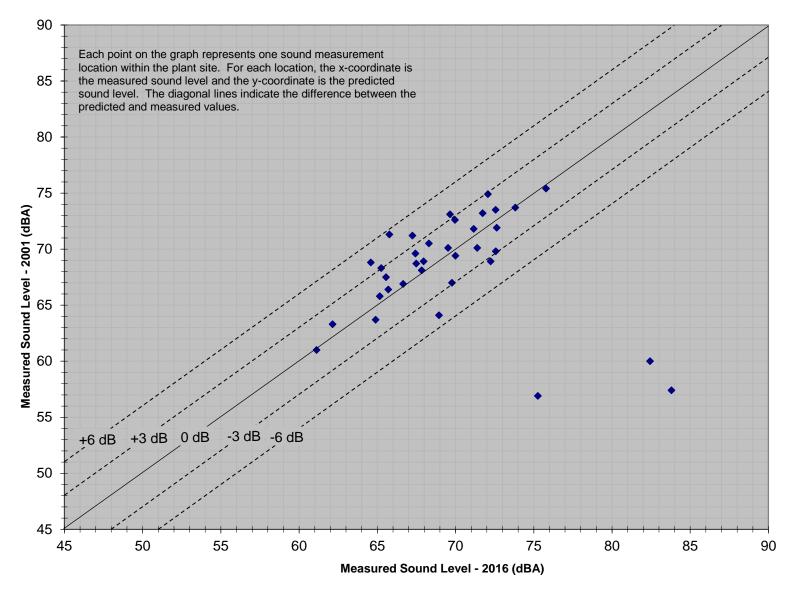
	Sound Pressure Level (dBA)		vel (dBA)	
Location				
Designation	Measured	Predicted	Difference	Remarks
R31	75.4	75.5	0.1	
R32	73.2	74.4	1.2	
R33	71.0	72.4	1.4	
R34	71.7	71.1	-0.6	
R35	71.8	71.6	-0.2	
R36	79.1	87.1	8.0	Over-predicting sound level at north side of C-902 bldg
R37	72.1	72.5	0.4	
R38	59.0	60.7	1.7	
R39	70.2	72.4	2.2	
R40	59.7	56.4	-3.3	
R41	69.5	73.4	3.9	
R42	77.7	79.2	1.5	
R43	72.4	72.4	0.1	
R44	71.0	71.7	0.7	
R46	71.9	73.6	1.7	
R47	68.9	66.8	-2.1	
R48	59.0	58.0	-1.0	
R49	50.6	50.9	0.3	
R50	46.2	51.1		Rail cars between location and plant
R51	47.1	46.5		Rail cars between location and plant
-	Averag	je Difference	0.5	





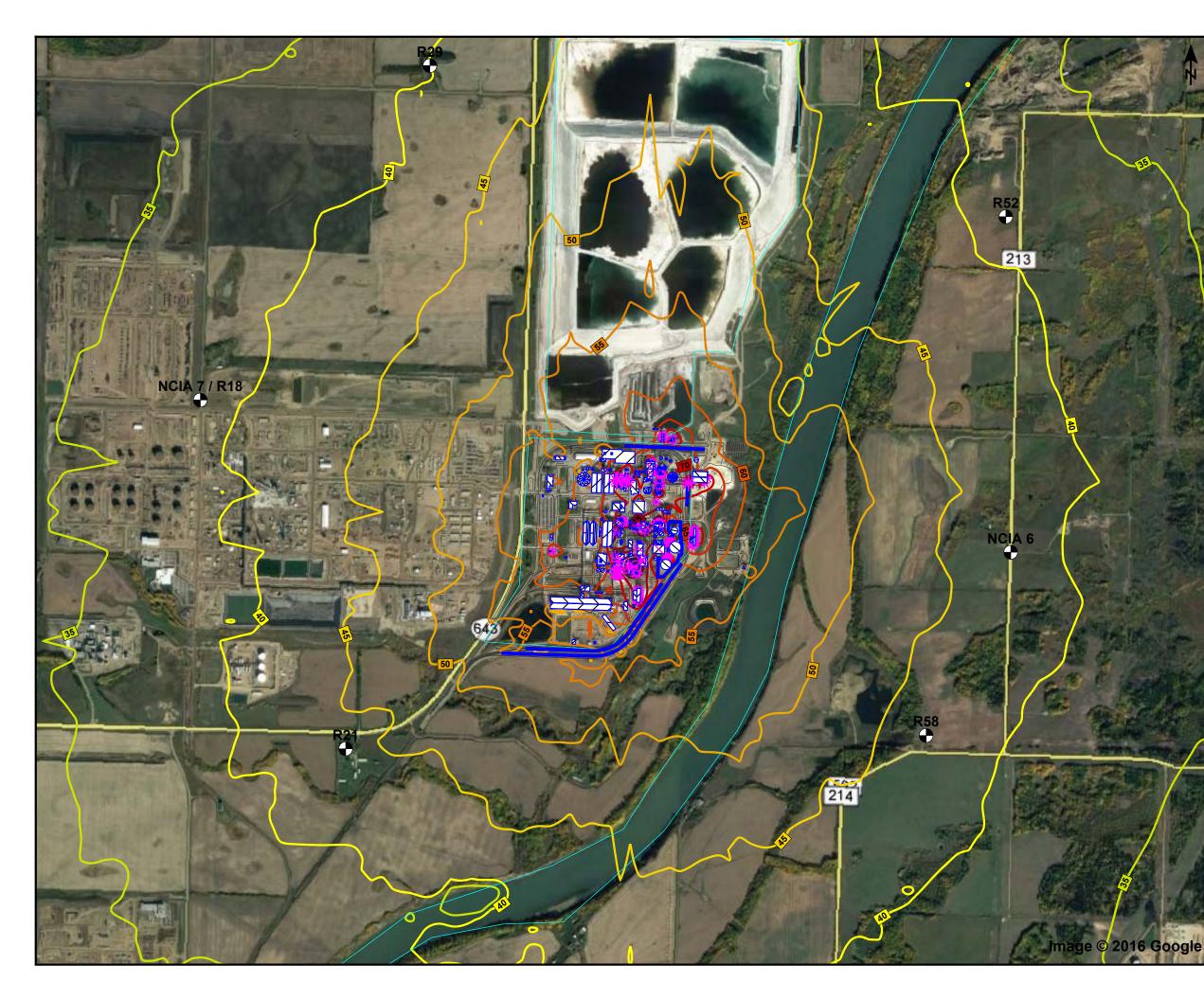


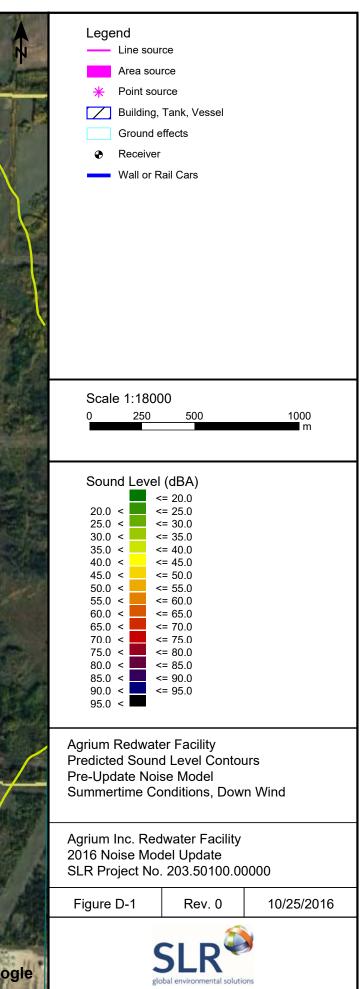


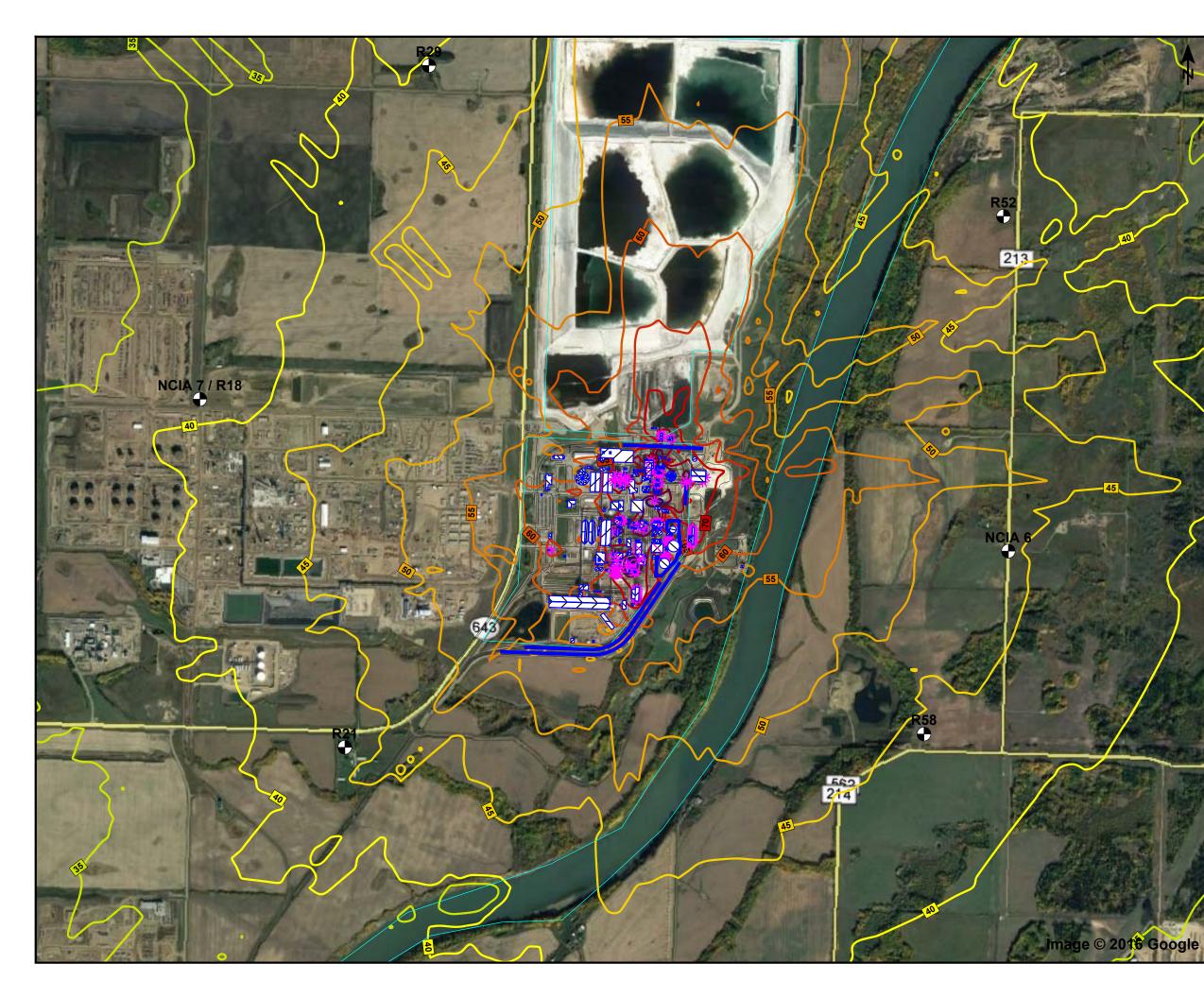


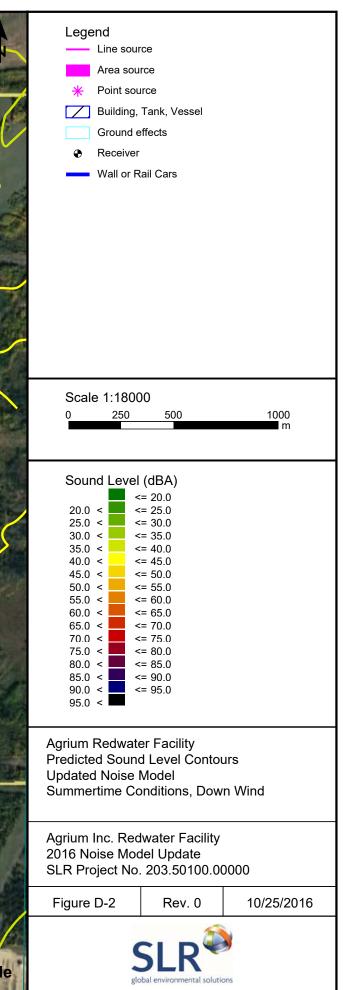
APPENDIX D Environmental Noise Contour Figures

Agrium Inc. 2016 Agrium Redwater Noise Model Update SLR Project No.: 203.50100.00000









APPENDIX E Order-Ranked Lists

Agrium Inc. 2016 Agrium Redwater Noise Model Update SLR Project No.: 203.50100.00000

Order-ranked lists are provided in Tables E-1 through E-4, corresponding to Receptors NCIA 7 / R018, R52, NCIA 6, and R21 respectively.



Figure E-1 Agrium Redwater Noise Receptor Locations.

Order-Ranked Sound Level Contributions at Receptor NCIA 7 / R18 Agrium - Redwater Summertime Conditions, Down Wind

Order Rank #	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
1	AN Brinks	28.0
2	01 Furnace East Face	27.9
3	Phos 30# steam vent South	27.4
4	Boiler 3 Inlet Duct	24.3
5	SA1 Blower Inlet Filter	24.1
6	R0401 opening in west wall	23.6
7	Boiler 1 Inlet	23.4
8	Ammonia Dearator Vent	23.3
9	Phos North upper North Wall open	21.7
10	O1 Furnace S Fan Exhaust	20.6
11	O1 Furnace N Fan Exhaust	20.5
12	Roof 01 Furnace	19.9
13	AN Prill Tower 1	19.8
14	AN Prill Tower 7	19.7
15	AN Prill Tower 6	19.6
16	Boiler 1 FD Fan	19.5
17	AN Prill Tower 8	19.3
18	AN Prill Tower 5	18.7
19	Phos North upper North Wall	18.4
20	West 09 Furnace North Face	18.4
21	AN Prill Tower 4	18.0
22	01 Furnace East Face Burner 3	17.8
23	Gas Supply Valve	17.7
24	AN Prill Tower 2	17.4
25	AN Prill Tower 3	17.3
26	3201 cell 8	17.3
27	Roof Phos Mid	17.2
28	CO2 Vent Am1	17.0
29	West Boiler 1	16.8
30	South Part Phos Building West Wa	16.8
31	3201 cell 2	16.7
32	Boiler 2 Inlet Duct	16.7
33	Boiler 2 Inlet	16.3
34	Watersplash 36 Tower West	15.9
35	3201 cell 1	15.6
36	ANU Process Vent	15.4
37	Cooling Tower 36 Cell 7	15.0
38	Cooling Tower 36 Cell 5	15.0
39	Cooling Tower 36 Cell 6	15.0
40	Cooling Tower 36 Cell 4	15.0
41	Cooling Tower 36 Cell 3	15.0
42	Cooling Tower 36 Cell 2	15.0
43	Cooling Tower 36 Cell 1	15.0
44	ANU R301conveyor E OH	14.6
45	W2 face Phos Building	14.4

Order-Ranked Sound Level Contributions at Receptor NCIA 7 / R18 Agrium - Redwater Summertime Conditions, Down Wind

Order Rank #	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
46	Nitric Acid Combuster	14.2
47	Boiler 1 Stack	14.2
48	Boiler 1 Inlet Duct	14.0
49	R0401 North Low Section North Wa	13.9
50	Gran W Dryer	13.8
51	North Boiler 2	13.6
52	SA1 CT West Face	13.5
53	South Part Phos Building Upper W	13.5
54	North Boiler 3	13.4
55	Phos North upper West Wall	13.2
56	Gran E Dryer	13.2
57	R0401 North Mid Tall Section Wes	13.1
58	Phos South West Wall	13.1
59	SA 2 CT N Face	13.1
60	Phos Filter (D1014)	13.0
61	01 Furnace West Face	12.9
62	N extension Phos Acid North Wall	12.8
63	North Boiler 1	12.8
64	C902 2nd stage suction	12.6
65	R2421 West Wall	12.3
66	01 Furnace East Face Burner 2	12.2
67	Roof East 09 Furnace	12.1
68	01 Furnace South Face	12.0
69	1-P-218	11.6
70	Roof	11.5
71	West Boiler 3	11.4
72	01 Furnace North Face	11.3
73	Phos Mid West Wall	11.2
74	west 09 Furnace East Face	11.1
75	R2421 East Wall	10.9
76	SA1 Mid Cooling Cell	10.8
77	SA1 North Cooling Cell	10.8
78	Roof R0401 North Low Section	10.7
79	Boiler 1 Stack	10.7
80	N extension Phos Acid West Wall	10.7
81	Roof N extension Phos Acid	10.5
82	Gran W Reactor	10.3
83	Boiler 2 FD Fan	10.2
84	R2421 Roof	10.2
85	SA2 Blower outlet Pipe	9.9
86	SA1 South Cooling Cell	9.8
87	Roof Phos North upper	9.8
88	Roof Phos South	9.8
89	01 Furnace East Face Burner 1	9.7
90	North Wall opening	9.6

Table E-1 Order-Ranked Sound Level Contributions at Receptor NCIA 7 / R18 Agrium - Redwater

Summertime Conditions, Down Wind

Order Rank #	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
91	W2 Phos Building open door 2	9.4
92	W2 Phos Building open door 1	9.4
93	W2 Phos Building open door 3	9.4
94	East 09 Furnace North Face	9.3
95	ANU R301 South OH	9.3
96	Phos South South Wall	9.2
97	R0401 North Mid High Section Wes	9.2
98	West Boiler 2	9.0
99	R0401 North Mid High Section Nor	8.9
100	Roof 09 North Building	8.8
	Sum of all noise contrubutions above (1 to 100)	37.8
	Sum of all remaining noise sources (101 to 413)	25.3
	Total Sound Pressure Level	38.0

Order-Ranked Sound Level Contributions at Receptor R52 Agrium - Redwater Summertime Conditions, Down Wind

Order Rank #	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
1	Phos 30# steam vent South	39.2
2	SA1 Blower Inlet Filter	34.4
3	Boiler 3 Inlet Duct	27.9
4	AN Brinks	27.5
5	01 Furnace North Face	25.5
6	Hyd vibrator for screw conv	25.5
7	Boiler 1 FD Fan	23.1
8	01 Furnace West Face	22.0
9	Phos North upper North Wall open	21.5
10	SA 2 CT N Face	21.0
11	O1 Furnace S Fan Exhaust	20.8
12	O1 Furnace N Fan Exhaust	20.6
13	Phos North upper North Wall	20.5
14	Boiler 2 Inlet Duct	20.5
15	East Boiler 3	19.3
16	AN Prill Tower 4	19.1
17	AN Prill Tower 3	19.1
18	AN Prill Tower 5	19.0
19	SA2 Blower outlet Pipe	19.0
20	Boiler 2 Inlet	18.5
21	AN Prill Tower 2	18.3
22	3201 cell 5	18.2
23	3201 cell 6	18.2
24	3201 cell 7	18.2
25	3201 cell 8	18.1
26	3201 cell 4	18.1
27	AN Prill Tower 6	18.1
28	Roof 01 Furnace	18.1
29	P20151A	18.0
30	ANU R301conveyor E OH	17.9
31	3201 cell 3	17.9
32	3201 cell 2	17.7
33	Gran E Reactor	17.5
34	01 Furnace North Face Void	17.3
35	32 Water Splash	17.2
36	AN Prill Tower 7	17.2
37	AN Prill Tower 1	17.1
38	AN Prill Tower 8	16.9
39	3201 cell 1	16.5
40	CO2 Vent Am1	16.5
41	N extension Phos Acid North Wall	16.3
42	01 Ammonia Comp Bldg N Top W	16.1
43	Phos North lower North Wall	15.9
44	SA1 CT East Face	15.3
45	01 Ammonia Comp Bldg N Top E	14.9

Order-Ranked Sound Level Contributions at Receptor R52 Agrium - Redwater Summertime Conditions, Down Wind

Order Rank #	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
46	Cooling Tower 36 Cell 6	14.8
47	Cooling Tower 36 Cell 5	14.8
48	Cooling Tower 36 Cell 4	14.7
49	Cooling Tower 36 Cell 3	14.7
50	ANU Process Vent	14.7
51	Cooling Tower 36 Cell 1	14.7
52	Cooling Tower 36 Cell 2	14.7
53	Phos North upper East Wall	14.7
54	Cooling Tower 36 Cell 7	14.6
55	R2421 East Wall	14.4
56	01 Furnace East Face	14.2
57	North Boiler 3	14.2
58	01 Furnace West Face Burner 3	14.0
59	Phos Filter (D1014)	13.9
60	01 Furnace South Face	13.9
61	Phos Mid West Wall	13.9
62	Nitric Acid Combuster	13.5
63	Boiler 1 Inlet	13.2
64	R2421 West Wall	13.2
65	Boiler 2 FD Fan	13.1
66	Gran W Dryer	13.1
67	Gran E Dryer	13.0
68	Boiler 1 Inlet Duct	12.8
69	Phos Mid East Wall	12.7
70	R0401 S Mid Tall Section North W	12.3
71	Phos Mid West Wall Fan 4	12.2
72	01 Furnace West Face Burner 2	12.2
73	SA1 North Cooling Cell	11.9
74	SA1 Mid Cooling Cell	11.8
75	SA1 South Cooling Cell	11.8
76	Roof Phos Mid	11.6
77	Roof R0401 North Low Section	11.6
78	C902 2nd stage suction	11.4
79	Boiler 1 Stack	11.3
80	R0401 North Mid Tall Section eas	11.2
81	P20151A	11.1
82	Watersplash 36 Tower East	10.8
83	09 North Building East Wall	10.6
84	R2421 North Wall	10.5
85	Vent Bldg 31	10.0
86	Boiler 1 Stack	9.9
87	SA-1Stack	9.7
88	R2421 Roof	9.6
89	Gran W Reactor	9.4
90	Phos Mid East Wall Fan 1	9.2

Order-Ranked Sound Level Contributions at Receptor R52 Agrium - Redwater Summertime Conditions, Down Wind

Order Rank #	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
91	East Boiler 2	9.2
92	R0401 North Low Section North Wa	9.2
93	ANU R301 South OH	9.2
94	Boiler 1 Stack	9.0
95	Roof Phos South	8.9
96	South Part Phos Building East Wa	8.9
97	Roof N extension Phos Acid	8.9
98	west 09 Furnace West Face	8.9
99	Roof Phos North upper	8.9
100	R2421 Fan Opening	8.7
	Sum of all noise contrubutions above (1 to 100)	42.3
	Sum of all remaining noise sources (101 to 413)	26.0
	Total Sound Pressure Level	42.4

Order-Ranked Sound Level Contributions at Receptor NCIA 6 Agrium - Redwater Summertime Conditions, Down Wind

Order Rank #	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
1	Phos 30# steam vent South	42.1
2	SA1 Blower Inlet Filter	36.3
3	R2421 East Wall	30.8
4	R2421 Fan Opening	30.7
5	AN Brinks	29.8
6	SA2 Blower outlet Pipe	29.7
7	Hyd vibrator for screw conv	29.0
8	South Wall opening	29.0
9	Boiler 1 Inlet	26.5
10	R2421 South Wall	25.8
11	Watersplash 36 Tower East	25.1
12	SA1 Blower Discharge	24.9
13	ANU R301conveyor E OH	23.7
14	01 Furnace West Face	23.4
15	R2421 Roof	23.1
16	32 Water Splash	22.8
17	SA 2 CT S Face	22.6
18	SA2 Blower Building East OH	21.7
19	Vent 50lb steam	21.6
20	AN Prill Tower 3	21.5
21	AN Prill Tower 2	21.3
22	AN Prill Tower 4	21.3
23	3201 cell 8	21.1
24	3201 cell 7	21.1
25	3201 cell 6	21.1
26	3201 cell 5	21.1
27	3201 cell 4	21.0
28	Phos South South Wall	20.8
29	01 Furnace South Face	20.7
30	3201 cell 3	20.7
31	AN Prill Tower 1	20.5
32	P20151A	20.4
33	AN Prill Tower 5	20.3
34	3201 cell 2	20.3
35	CO2 Vent Am1	20.0
36	North Wall opening	20.0
37	Boiler 1 FD Fan	19.8
38	Roof	19.6
39	AN Prill Tower 8	19.5
40	O1 Furnace S Fan Exhaust	19.5
41	AN Prill Tower 6	19.3
42	3201 cell 1	19.3
43	Boiler 3 Inlet Duct	19.3
44	AN Prill Tower 7	19.2
45	O1 Furnace N Fan Exhaust	19.1

Order-Ranked Sound Level Contributions at Receptor NCIA 6 Agrium - Redwater Summertime Conditions, Down Wind

Order Rank #	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
46	Roof East 09 Furnace	18.5
47	ANU R301 South OH	18.1
48	SA2 Blower Inlet Pipe	18.0
49	01 Furnace North Face	17.8
50	R2421 North Wall	17.7
51	Boiler 2 Inlet	17.7
52	Boiler 1 Stack	17.6
53	ANU Process Vent	17.5
54	Roof 01 Furnace	17.3
55	East 09 Furnace East Face	17.3
56	R2421 West Wall	17.2
57	Cooling Tower 36 Cell 6	17.2
58	SA1 Blower Room West Dbl Dr	17.2
59	Cooling Tower 36 Cell 7	17.1
60	Cooling Tower 36 Cell 5	17.1
61	Cooling Tower 36 Cell 4	17.1
62	Cooling Tower 36 Cell 3	17.1
63	Cooling Tower 36 Cell 1	17.0
64	Cooling Tower 36 Cell 2	17.0
65	01 Furnace East Face	16.8
66	Phos Mid South Wall	16.5
67	Gran South Building East wall	16.3
68	R2421 Low Level fan	16.2
69	C902 2nd stage suction	16.0
70	Gran E Reactor	16.0
71	Nitric Acid Combuster	16.0
72	P20151A	15.9
73	Phos Filter (D1014)	15.7
74	west 09 Furnace East Face	15.5
75	Boiler 2 Inlet Duct	15.1
76	Gran W Dryer	15.1
77	East 09 Furnace West Face	15.0
78	Gran E Dryer	14.9
79	Boiler 1 Inlet Duct	14.6
80	Gas Supply Valve	14.6
81	Boiler 1 Stack	14.4
82	west 09 Furnace West Face	14.4
83	Phos Scrubber East Wall Vent	14.3
84	01 Furnace West Face Burner 3	14.1
85	R2421 East Wall Dust Collector	13.9
86	R0401 S Mid Tall Section North W	13.8
87	01 Ammonia Comp Bldg N Top E	13.7
88	Gran South Building South wall	13.6
89	01 Furnace West Face Burner 2	13.2
90	Phos Mid East Wall	13.0

Order-Ranked Sound Level Contributions at Receptor NCIA 6 Agrium - Redwater Summertime Conditions, Down Wind

Order Rank #	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
91	01 Ammonia Comp Bldg N Top W	13.0
92	Roof N extension Phos Acid	12.9
93	Phos South West Wall	12.5
94	Roof R0401 North Low Section	12.4
95	Hyd Power Pack	12.4
96	Gran W Reactor	12.3
97	R0401 North Mid Tall Section eas	12.3
98	01 Ammonia Furnace Fan Enclosure	12.2
99	C902 1st stage discharge	12.2
100	Boiler 1 Stack	12.1
	Sum of all noise contrubutions above (1 to 100)	45.3
	Sum of all remaining noise sources (101 to 413)	29.7
	Total Sound Pressure Level	45.4

Order-Ranked Sound Level Contributions at Receptor R21 Agrium - Redwater Summertime Conditions, Down Wind

Order Rank #	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
1	01 Furnace South Face	34.2
2	Phos 30# steam vent South	32.7
3	AN Brinks	31.6
4	01 Furnace East Face	31.3
5	R2421 West Wall	31.1
6	South Wall opening	28.3
7	SA1 Blower Inlet Filter	26.9
8	SA2 Blower outlet Pipe	26.3
9	01 Furnace South Face Void	26.1
10	R2421 South Wall	25.9
11	01 Furnace North Face	25.3
12	O1 Furnace S Fan Exhaust	25.0
13	O1 Furnace N Fan Exhaust	24.9
14	Roof 01 Furnace	24.3
15	AN Prill Tower 8	23.3
16	AN Prill Tower 7	23.2
17	AN Prill Tower 1	23.2
18	R2421 Roof	23.1
19	ANU R301conveyor E OH	23.0
20	Boiler 1 Inlet	22.9
21	R0401 opening in west wall	22.8
22	Gas Supply Valve	22.6
23	W2 Phos Building open door 3	22.4
24	AN Prill Tower 6	22.4
25	Ammonia Dearator Vent	22.3
26	AN Prill Tower 4	22.2
27	AN Prill Tower 5	22.1
28	AN Prill Tower 2	22.0
29	AN Prill Tower 3	21.9
30	South Part Phos Building West Wa	21.6
31	CO2 Vent Am1	21.3
32	W2 Phos Building open door 2	21.2
33	Phos South South Wall	21.2
34	01 Furnace East Face Burner 3	20.9
35	W2 Phos Building open door 1	20.8
36	01 Ammonia Furnace Fan Enclosure	19.7
37	P20151A	19.4
38	ANU Process Vent	19.3
39	Gran South Building West wall	19.3
40	Cooling Tower 36 Cell 7	19.0
41	Cooling Tower 36 Cell 4	19.0
42	Cooling Tower 36 Cell 3	19.0
43	Cooling Tower 36 Cell 5	19.0
44	Cooling Tower 36 Cell 1	19.0
45	Cooling Tower 36 Cell 6	19.0

Order-Ranked Sound Level Contributions at Receptor R21 Agrium - Redwater Summertime Conditions, Down Wind

Order Rank #	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
46	Cooling Tower 36 Cell 2	18.9
47	01 Furnace West Face	18.9
48	R0401 North Mid Tall Section Wes	18.8
49	C902 2nd stage suction	18.5
50	Boiler 1 Stack	18.5
51	Nitric Acid Combuster	18.2
52	Phos Scrubber East Wall Vent	18.0
53	Boiler 1 FD Fan	17.5
54	Phos South West Wall	17.4
55	Boiler 2 Inlet	17.0
56	Watersplash 36 Tower West	16.9
57	R2421 East Wall	16.8
58	Gran South Building South wall	16.8
59	East 09 Furnace West Face	16.6
60	01 Furnace East Face Burner 2	16.6
61	W2 face Phos Building	16.3
62	3201 cell 8	16.1
63	1-P-218	16.0
64	louvre - Gran South Building Wes	16.0
65	Gran W Dryer	15.9
66	Roof Phos Mid	15.8
67	west 09 Furnace East Face	15.6
68	ANU R301 South OH	15.4
69	R0401 S Mid Tall Section South W	15.4
70	Gran E Dryer	15.3
71	1-P-204-1	15.3
72	Boiler 1 Stack	14.9
73	East 09 Furnace South Face	14.8
74	C902 1st stage discharge	14.7
75	Phos Filter (D1014)	14.6
76	1-P-125-2	14.5
77	SA2 Blower Inlet Pipe	14.4
78	01 Furnace East Face Burner 1	14.4
79	Roof Gran South Building	14.4
80	Phos Mid West Wall	14.3
81	09 Air Compressor Building West	14.2
82	R0401 North Mid Tall Section Sou	14.2
83	302 1st stage discharge 2	13.7
84	R0401 North Mid High Section Wes	13.6
85	Phos North upper West Wall	13.5
86	E Face Inlet 201 Turbine	12.8
87	N Face Inlet 201 Turbine	12.8
88	west 09 Furnace West Face	12.8
89	Boiler 1 Stack	12.8
89 90	Boiler 2 Inlet Duct	12.7

Order-Ranked Sound Level Contributions at Receptor R21 Agrium - Redwater Summertime Conditions, Down Wind

Order Rank #	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
91	Gran W Reactor	12.3
92	Vent Bldg 31	12.3
93	36 drive motor Cell 1	12.2
94	S Face Inlet 201 Turbine	12.1
95	W Face Inlet 201 Turbine	12.1
96	C902 3rd stage suction	12.1
97	Roof Phos South	12.0
98	East 09 Furnace East Face	12.0
99	1-P-204-2	11.8
100	North Wall opening	11.8
	Sum of all noise contrubutions above (1 to 100)	42.7
	Sum of all remaining noise sources (101 to 413)	28.5
	Total Sound Pressure Level	42.8

APPENDIX F Glossary

Agrium Inc. 2016 Agrium Redwater Noise Model Update SLR Project No.: 203.50100.00000

Appendix F – Glossary of Acoustical Terms

A-WEIGHTED SOUND LEVEL OR dBA: A measurement of overall Sound Pressure Level which accounts for the frequency content of the measured sound and assesses it with a frequency response similar to that of the human ear.

AMBIENT OR BACKGROUND NOISE: The noise in the environment, other than the noise from the source of interest.

ATMOSPHERIC ATTENUATION: The effect of sound absorption by moisture in the air.

ATTENUATION: A reduction in sound level that occurs with sound propagation over distance by means of physical dissipation or absorption mechanisms, or a reduction in sound level that occurs by means of noise control measures applied to a sound source.

BARRIER DIFFRACTION OR ATTENUATION: The effect of an acoustical shadow created by building or landform interposed between a source and a receiver.

BROADBAND NOISE: A noise with frequency components distributed over a broad frequency range, e.g. noise from distant road traffic.

C-WEIGHTED SOUND LEVEL OR dBC: A measurement of overall Sound Pressure Level with a frequency response that has essentially no filtering of sound between 50 and 5000 Hz. C-weighted sound levels are a better indicator of the presence of low frequency sound than A-weighted sound levels.

COMPREHENSIVE SOUND LEVEL: A measurement of the overall Sound Pressure Level at a location which includes the effects of all noise sources affecting the location.

DISTANCE DISSIPATION: The natural attenuation of sound with distance caused by geometrical spreading of sound waves.

EQUIVALENT CONTINUOUS SOUND LEVEL OR L_{eq}: A single number descriptor commonly used for environmental noise measurements and criteria. It is used to quantify sound which constantly varies over time, such as that commonly occurring in outdoor environments. It is defined as the average Sound Pressure Level over a specific time period that has the same acoustic energy as the actual fluctuating Sound Pressure Levels during the same time period. Time periods commonly used for L_{eq} measurements and criteria are the daytime (07:00 - 22:00 hrs) and nighttime (22:00 - 07:00 hrs) periods.

FREE SOUND FIELD (FREE FIELD): A sound field in which the effects of obstacles or boundaries on propagating sound are negligible.

FREQUENCY: The number of wave oscillations per second (hertz) of an acoustic pressure wave propagating through the air. The same as the pitch, or highness or lowness of a sound.

GROUND ATTENUATION: The effect of sound absorption by the ground separating the source and receiver.

INCREASE IN SOUND LEVEL: The perceived increase in loudness of a sound does not correspond directly to numerical increases in dBA values. Typically, an increase of less than 3 dBA is barely noticeable, an increase of 5 dBA is noticeable, an increase of 10 dBA is perceived as a doubling in apparent loudness, and an increase of 20 dBA is perceived as a four-fold increase in apparent loudness.

NARROW-BAND: A segment of the frequency spectrum which spans a few hertz or tenths of hertz.

NARROW-BAND SOUND PRESSURE LEVEL: The total Sound Pressure Level of sound components in a specific narrow-band frequency segment. Narrow-band Sound Pressure Levels are used to identify the presence of tonal components in a sound.

OCTAVE: The interval in frequency between two sounds having a frequency ratio of two.

OCTAVE BAND: A segment of the frequency spectrum which spans one octave.

OCTAVE BAND SOUND PRESSURE LEVEL: The total sound pressure level of sound components in a specific octave band.

PINK NOISE: A broadband noise characterized by a spectrum that uniformly decreases by 3 dB/octave with increasing octave band frequency. This noise is characterized by a "hushing" sound.

SOUND LEVEL CONTRIBUTION: The contribution of noise from one or more sources to the overall sound level from all sources affecting a particular location.

SOUND POWER LEVEL: A measurement of the acoustic energy of a sound source, which utilizes a logarithmic scale and which is normally calculated from Sound Pressure Level measurements near the source. The reference sound power is 10⁻¹² watts.

Sound PRESSURE Level: A physical measurement of sound, which utilizes a logarithmic scale and which quantifies the amplitude or volume of acoustic pressure waves propagating through the air. The reference sound pressure is $20 \ \mu$ Pa.

SPECTRUM: The quantification of the components of a sound as a function of frequency.

STATISTICAL SOUND LEVEL OR L_n: The proportion of time a sound of interest is present at a specific level. Statistical sound levels are expressed as L_n values, which is the sound level exceeded N percent of the time.

THIRD-OCTAVE: The interval in frequency between two sounds having a ratio of 2 to the one-third power, or approximately 1.26.

THIRD-OCTAVE BAND: A segment of the frequency spectrum which spans one-third octave.

THIRD-OCTAVE BAND SOUND PRESSURE LEVEL: The total sound pressure level of sound components in a specific one-third octave band.

URBAN HUM: The more or less steady, continuous background noise in or near an urban area caused by distant road traffic and urban activity.

APPENDIX G Environmental Noise Descriptors

Agrium Inc. 2016 Agrium Redwater Noise Model Update SLR Project No.: 203.50100.00000

Appendix G – Environmental Noise Descriptors

Environmental noise is typically not steady and continuous, but varies over time. In a rural area, there is usually continuous background noise from distant traffic and community sources that slowly varies with time of day and with changes in atmospheric and/or ground cover conditions. Along with this continuous background noise there are also intermittent, fluctuating, higher-level noises. These are usually associated with local road traffic, nearby community and agricultural activity, and natural sounds.

To account for the time-varying nature of environmental noise, a single number descriptor known as equivalent continuous sound level (L_{eq}) is typically used. This descriptor quantifies sound that varies over time, such as that commonly occurring in outdoor environments. L_{eq} is the average sound level (based on acoustical energy) of time varying sound measured over a specific time period. Time periods commonly used for L_{eq} sound levels are 1-hour, daytime (07:00 to 22:00), nighttime (22:00 to 07:00) and 24-hours. L_{eq} is generally accepted and used for environmental noise measurements and criteria.

Sound is acoustic pressure waves that propagate through air. Because the range of audible sound pressures is very wide, sound is measured on a logarithmic scale in units of decibels (dB). The logarithmic scale compresses the range of audible sound pressures into a range that approximately corresponds to human hearing perception. When comparing sound level values, the following rule of thumb may be used:

- A difference in sound level of 3 dB is barely perceptible to human hearing
- A difference of 5 dB is noticeable
- A difference of 10 dB corresponds to a halving or doubling in perceived loudness
- A difference of 20 dB corresponds to a four-fold difference in perceived loudness.

Sound level values for environmental noise are normally A-weighted and expressed in units of A-weighted decibels (dBA). The A-weighting accounts for the frequency content of the sound and assesses it with a frequency response similar to that of human hearing. Figure A1 shows examples of typical A-weighted sound levels for a variety of noise sources ranging from very quiet to extremely loud.

In environmental noise assessments, the daytime and nighttime periods are normally differentiated, especially for areas where ambient sound levels may be affected by community or traffic noise sources. Ambient sound levels are typically higher during the daytime as a result of increased community and traffic activity. During the nighttime, ambient sound levels are usually lower because community and traffic activity is reduced. In order to understand range of sound levels typically occurring in outdoor environments, Table A1 shows examples of sound level measured at various outdoor locations ranging from a rural setting to an urban environment.

IS
1

Location Departmention	Sound I	Sound Level (dBA)		
Location Description	Daytime	Nighttime		
Farm in Valley	35 - 45	29 - 37		
Suburban Residential at City Outskirts	42 - 58	35 - 45		
Urban Residential	48 - 59	45 - 57		

(Harris, C.M., ed., Handbook of Noise Control, Second Edition, McGraw-Hill, 1979, p. 35-11)

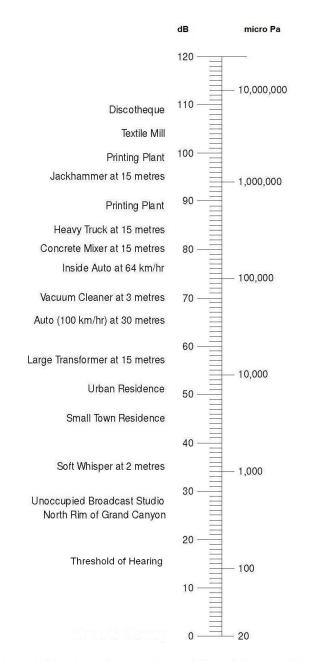


Figure A1: Typical A-weighted Sound Levels for Various Noise Sources

Relation between sound pressure in pascals and Sound Pressure Level in decibels re 20 micropascals. Also shown are typical values of A-weighted sound level of various sources of noise.

(Harris, C.M., ed., Handbook of Noise Control, Second Edition, McGraw-Hill, 1979, p. 2-10)

APPENDIX H Outdoor Sound Propagation

Agrium Inc. 2016 Agrium Redwater Noise Model Update SLR Project No.: 203.50100.00000

Appendix H – Outdoor Sound Propagation

Outdoor sound propagation between a sound source and a receptor is affected by several sound attenuation mechanisms. These include the following:

- Distance dissipation: sound naturally decreases with increasing distance from a source
- Ground attenuation: sound is absorbed by the ground that it passes over
- Atmospheric attenuation: sound is absorbed by the atmosphere it passes through
- Barrier attenuation: sound can be blocked by physical barriers (e.g. buildings or hills)
- Sound is affected by wind gradients: a distant noise source will be louder under downwind conditions than it will be under calm conditions; a distant source will be quieter under upwind conditions than it will be under calm conditions.
- Sound is affected by temperature gradients: a distant noise source will be louder under atmospheric inversion conditions than it will be under neutral conditions; a distant source will be quieter under atmospheric lapse conditions than it will be under neutral conditions.

Temperature and relative humidity do have effects on some of these sound attenuation mechanisms, however they do not have specific sound propagation effects associated with them.

Off-site ground cover in the study area is rough fields. This type of ground cover would be moderately sound-absorptive during summer conditions. However during the winter, variations in the sound absorption may occur with different ground surface conditions (*e.g.* frozen ground or crusty snow - reflective; soft, fresh snow - absorptive).

On-site ground cover consists of hard sound-reflective ground (asphalt and concrete), and sound barrier/screening objects such as buildings, vessels, structures, and equipment. The barrier/screening objects can provide significant sound attenuation if they block the line of sight between the source and receptor.

The effects of wind gradients on outdoor sound propagation can cause variations in the sound level of a distant facility. Similar effects are caused by temperature gradients in the atmosphere. The sound level variations caused by wind and temperature gradients are most pronounced for large source/receptor distances. Sound from a distant facility which propagates in a downwind direction (and/or during atmospheric inversion conditions) results in higher sound levels at a receptor than for calm conditions and a neutral atmosphere. This effect is caused by downward refraction of sound rays as they propagate through the atmosphere. Conversely, sound propagating in an upwind direction (and/or during lapse conditions in the atmosphere) is refracted upwards, which results in lower sound levels at the receptor. Sound propagating in a crosswind direction (and a neutral atmosphere) does not exhibit refraction effects and is essentially the same as sound propagation during calm conditions and a neutral atmosphere.



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<u>Air Liquide</u>

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

If you have any questions, please call Laurie Danielson @ 780.992.1463

Input Description	Member Site Comments
Confirmation that site has implemented a best management practice to address environmental noise as per NCIA Noise Management Plan Standard 2010-003 issued 3-Sep-10, revised 5- Mar-13, revised 14-Apr-14, revised 31-Mar-16 including the Procedure/Practice/Standard reference.	Signs have been posted to inform of double hearing protection required within plant areas. Annual review of Standard Operating Procedures SFD/CGN-06-101 Hearing Conservation Program to ensure compliance.
Note, if you have not provided an electronic copy of your site plan to NCIA, please do so.	
Provide a summary of any monitoring (fence line outward completed in 2016.	Noise survey conducted in July 2013 and provided as attached. No additional equipment/process was added since then.
Note, you are not required to conduct any off- site monitoring.	
Disclose any improvements/corrective actions implemented in 2016 or status thereof that would impact the noise level output for your site (either up or down).	Continue with Winterization with insulation on critical equipment including outside equipment.
Did those changes result in a requirement to update your site noise model? If so, have you provided your updated site	No change was made in equipment/process that warrant a new site noise model
model to SLR Consulting for incorporation into the NCIA Regional Noise Model as per the process outlined for this purpose?	

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Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down). Will these changes result in a requirement to update your site noise model? If so, when do you anticipate having an updated site model available? Disclose any audit/self-assessment evaluation (qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan in 2016.	Maintain current program. A self-audit conducted on the Hearing Protection and Conservative Program. This is reviewed by senior leader in plant every 2 years. Next audit will be conducted in Q3 2017.
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	None

This information is being collected as per the NMP Standard 2010-003 Revised 31-March-2016. All information provided will be disclosed to the AER as part of the required NCIA Annual Reporting on the Regional Noise Management Plan.

Further, the Annual Report will be a public document available on our website once finalized.



Scotford	25-Sept-2015	losie Doll
Location:	Date:	Audit Performed by:

		┝	\mathbf{F}	
		Z	A	COMMENTS
Ä	Sources of Noise			
-	Equipment capable of producing more than 85 dBA have been identified and monitored for noise level	7		Noise survey completed 2013
2	High noise areas posted with warning signs.	2		
ო	A report of the noise survey findings is available for review	2		
ġ	Ž			
~	Major noise sources and options for engineering noise control have been identified	7		
7	Where practicable, engineering controls in place or considered to	~		
e	Variety of hearing protectors available to employees	~		
4	Reusable hearing protectors are clean and in good condition	7		Responsibility of owner
ŝ	Hearing protectors worn where needed	7		
с і	C. Audiometric Testing			
	Individuals working in high noise areas receive audiometric (hearing)			
~	testing at frequency determined in the Hearing Conservation and	7		Hearing test completed every two years, SOP reviewed annually
	Protection Program			
2	Employees transferred and/or hired into a job where there is potential			
	of exposure to noise levels exceeding 85 dBA Lex receive baseline audiogram within 70 days.	7		
ო	Individuals reassigned out of a hearing hazardous job or leaving	-		Unsure if this task is being completed.
	receive a follow-up test or end-of-employment audiogram.	~		
4	Workers are advised to bring their hearing protection with them to the hearing test.	7		
S	Use and care of hearing protection is reviewed by audiologist with	-		Completed by supplier (Judy's Safety)
	each worker.	7		
Ö	D. Education and Training			
Ŷ	Noise exposed workers have received education on:			
-	The results of noise exposure measurements	7		Reviewed SOP annually; completed during safety meetings
7	Effects of noise on hearing	~		Hearing conservation training is due to be completed for 2015 by Dec 30.
n	Proper use and maintenance of hearing protection	7		
4	Purpose of hearing testing	7		

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ATCO Power Canada Ltd.:

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

If you have any questions, please call Laurie Danielson @ 780.992.1463

Input Description	Member Site Comments
Confirmation that site has implemented a best	ATCO Power has one facility operating in the
management practice to address environmental	Alberta Industrial Heartland: Scotford
noise as per NCIA Noise Management Plan	Cogeneration Plant. The Scotford Cogeneration
Standard 2010-003 issued 3-Sep-10, revised 5-	Plant is located on the Shell Upgrader site and
	10
Mar-13, revised 14-Apr-14, revised 31-Mar-16	is included in the Shell Upgrader Noise
including the Procedure/Practice/Standard	Management Plan.
reference.	
	In 2016, ATCO Power did not have any other
Note, if you have not provided an electronic	sites that would be subject to the NCIA Noise
copy of your site plan to NCIA, please do so.	Management Plan BMP requirements.
Provide a summary of any monitoring (fence	ATCO Power did not conduct any noise
line outward completed in 2016.	monitoring/assessments in 2016.
Note, you are not required to conduct any off-	
site monitoring.	
Disclose any improvements/corrective actions	Not applicable.
implemented in 2016 or status thereof that	
would impact the noise level output for your	
site (either up or down).	
site (entiter up of down).	
Did those changes result in a requirement to	
update your site noise model?	
update your site noise model?	
If an have you provided your undeted site	
If so, have you provided your updated site	
model to SLR Consulting for incorporation into	
the NCIA Regional Noise Model as per the	
process outlined for this purpose?	

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Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down). Will these changes result in a requirement to update your site noise model? If so, when do you anticipate having an updated site model available?	Not applicable.
Disclose any audit/self-assessment evaluation (qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan in 2016.	Not applicable.
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	Not applicable.

This information is being collected as per the NMP Standard 2010-003 Revised 31-March-2016. All information provided will be disclosed to the AER as part of the required NCIA Annual Reporting on the Regional Noise Management Plan.

Further, the Annual Report will be a public document available on our website once finalized.

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Aux Sable Canada LP:

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

If you have any questions, please call Laurie Danielson @ 780.992.1463

Input Description	Member Site Comments
Confirmation that site has implemented a best	Aux Sable has implemented a best
management practice to address environmental	management practice to address environmental
noise as per NCIA Noise Management Plan	noise and has retained Patching Associates
Standard 2010-003 issued 3-Sep-10, revised 5-	Acoustical Engineering Ltd. to conduct noise
Mar-13, revised 14-Apr-14, revised 31-Mar-16	measurements at the site in May 2016. This
including the Procedure/Practice/Standard	assessment was completed and a report
reference.	prepared to meet standard 2010-003 31-Mar-
	16.
Note, if you have not provided an electronic	
copy of your site plan to NCIA, please do so.	An up to date electronic copy of the plot plan
	will be provided with the noise model
	submission in 2018.
Provide a summary of any monitoring (fence	There were no noise measurements completed
line outward completed in 2016.	outside the facility fence line in 2016. Noise measurements at the facility fence line were
Note you are not required to conduct any off	completed in 2016, these showed no significant
Note, you are not required to conduct any off- site monitoring.	changes from previous fence line
site monitoring.	measurements.
Disclose any improvements/corrective actions	There were no changes to the facility in 2016.
implemented in 2016 or status thereof that	A noise assessment using field measurements
would impact the noise level output for your	was completed in May 2016 and the facility
site (either up or down).	noise model was updated.
	r i i i i i i i i i i i i i i i i i i i
Did those changes result in a requirement to	Aux Sable will work with SLR Consulting
update your site noise model?	through 2017/2018 in order to incorporate the
	current facility noise model into the NCIA
If so, have you provided your updated site	Regional Noise Model.
model to SLR Consulting for incorporation into	
the NCIA Regional Noise Model as per the	
process outlined for this purpose?	

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Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down).	There are no improvements or planned projects that will impact the noise levels in 2017.
Will these changes result in a requirement to update your site noise model?	
If so, when do you anticipate having an	
updated site model available?	
Disclose any audit/self-assessment evaluation	A sound study was completed in May 2016.
(qualitative evaluation only, with senior site	This study found that there were no significant
leader sign-off) completed for your site noise	changes to the facility and was reviewed by
management plan in 2016.	senior site leaders. Full documentation
	available on request.
Provide a Noise Complaint summary for all	There were no noise complaints received in
noise complaints received in 2016 including	2016.
any actions taken to address them.	

This information is being collected as per the NMP Standard 2010-003 Revised 31-March-2016. All information provided will be disclosed to the AER as part of the required NCIA Annual Reporting on the Regional Noise Management Plan.

Further, the Annual Report will be a public document available on our website once finalized.

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Bruderheim Energy Terminal Ltd. (Cenovus)

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

If you have any questions, please call Laurie Danielson @ 780.992.1463

Input Description	Member Site Comments
Confirmation that site has implemented a best	Based on the current activity at the Terminal
management practice to address environmental	(i.e., rail transloading), a best management
noise as per NCIA Noise Management Plan	practice to address environmental noise at the
Standard 2010-003 issued 3-Sep-10, revised 5-	Terminal has not been developed. If and when
Mar-13, revised 14-Apr-14, revised 31-Mar-16	circumstances change that affect environmental
including the Procedure/Practice/Standard	noise this will be reviewed and a best
reference.	management practice developed accordingly.
Note, if you have not provided an electronic	
copy of your site plan to NCIA, please do so.	
Provide a summary of any monitoring (fence	No monitoring was completed in 2016.
line outward completed in 2016.	of the second seco
Note, you are not required to conduct any off-	
site monitoring.	
Disclose any improvements/corrective actions	No improvements or corrective actions have
implemented in 2016 or status thereof that	been implemented in 2016.
▲ ▲	been implemented in 2010.
would impact the noise level output for your	
site (either up or down).	
Did those changes result in a requirement to	
update your site noise model?	
If so, have you provided your updated site	
model to SLR Consulting for incorporation into	
the NCIA Regional Noise Model as per the	
process outlined for this purpose?	

Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Number	
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Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down). Will these changes result in a requirement to update your site noise model?	No improvements or projects are proposed for 2017 that would impact noise levels.
If so, when do you anticipate having an updated site model available?	
Disclose any audit/self-assessment evaluation (qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan in 2016.	No audit/self assessment evaluation was completed.
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	There were no noise complaints in 2016.

NCIA Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Numbe	-
Noise Management Pla	n Reporting Requirements as	Rev. Date	Rev.
per Section 5	5.4 of this Standard	14-Apr-14	2

Insert your Company Name here: Chemtrade Ft Sask. Sulphides and CSC locations

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

Input Description	Member Site Comments
Confirmation that site has implemented a best management practice to address environmental noise as per NCIA Noise Management Plan Standard 2010-003 issued 3-Sep-10, revised 5- Mar-13, revised 14-Apr-14, including the Procedure/Practice/Standard reference. Note, if you have not provided an electronic	Both Fort Saskatchewan facilities (CSC and Sulphides) have implemented a management program to address environmental noise as per NCIA Noise Management Plan Standard 2010- 001. This is outlined in the Environmental Noise Management and Control procedure CHE-FSK-ESH-001.
copy of your site plan to NCIA, please do so.	
Attach results of any monitoring/assessments (fence line outward) completed in 2015. Note, you are not required to conduct any off- site monitoring, however if you did, please provide those results electronically to NCIA.	Off-site monitoring was not conducted during the year, due to prioritization of tasks necessitated by the EHS Supervisor being out on extended leave. Monitoring will be done next year.
Disclose any improvements/corrective actions implemented in 2016 or status thereof that would impact the noise level output for your site (either up or down). Did those changes result in a requirement to	No changes that would impact the noise level have been made in 2016.
update your site noise model? If so, have you provided your updated site model to SLR Consulting for incorporation into the NCIA Regional Noise Model as per the process outlined for this purpose?	

Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Numbe	
Noise Management Plan Reporting Requirements as		Rev. Date	Rev.
per Section 5.4 of this Standard		14-Apr-14	2

Disclose any improvements/projects that are approved for 2017 that would impact the noise	A change is planned for the first quarter of 2018 that may impact noise level output. A
level output for your site (either up or down).	Sodium Bi-Sulfite truck loading operation
Will these changes result in a requirement to update your site noise model?	scrubber will be installed. The site noise model will then be updated by the second quarter of 2018.
If so, when do you anticipate having an updated site model available?	
Disclose any audit/self-assessment evaluation	Submitted to the NCIA with this report on
(qualitative evaluation only, with senior site	September 6, 2017. Signed by Neil Moon,
leader sign-off) completed for your site noise	Regional Manager.
management plan.	
Provide a Noise Complaint summary for all	No complaints have been received in 2016 or
noise complaints received in 2014 including	to this point in 2017.
any actions taken to address them.	•



NCIA office, Fort Saskatchewan #204 9902-102 Street Fort Saskatchewan, AB Attn.: Dr. Laurie J. Danielson, P. Chem. Executive Director, Northeast Capital Industrial Association

September 6, 2017

RE: Annual self-assessment of Chemtrade's Environmental Noise Management program for the Fort Saskatchewan CSC and Sulphides sites

As per Chemtrade's Environmental Noise Monitoring and Control Procedure CHE-FSK-ESH-001, Neil Moon (Regional Manager), Jason Giebelhaus (Plant Manager, CSC), and Renee Westlund (EHS Manager) have performed an annual self-assessment of our program. The following items have been examined and corrective actions have been noted below:

Items examined:

- 1. Noise survey results from 2015
- 2. Review of any noise complaints and their follow-up
- 3. Review of worker training records (Initiafy)
- 4. Review of capital projects and changes made which may impact environmental noise from either facility
- 5. General review of the procedure

No corrective actions are required, both plants are in compliance.

If there are any questions concerning this assessment, please contact Renee Westlund (360) 610-3861.

Yours truly,

Mon

Neil Moon Regional Manager



Dow Chemical Canada ULC Bag 16, Highway 15 Fort Saskatchewan, Alberta T8L 2P4, Canada

June 9, 2017

Northeast Capital Industrial Association Laurie Danielson, Executive Director #204, 9902 - 102 Street Fort Saskatchewan, AB T8L 2C3

Dear Dr. Danielson,

Subject: 2016 Noise Management Annual Report Dow Chemical Canada ULC (Dow) Fort Saskatchewan Site

Please find attached Dow Chemical Canada ULC (Dow) input into the NCIA Regional Noise Management Plan report to the Alberta Energy Regulator (AER) for the Dow Fort Saskatchewan Industrial Site. MEGlobal Canada ULC (MEGlobal) operates a production facility within the Dow Site and is included in this submission.

Please call Marcella deJong at 780 - 992 - 8529 or myself at 780 - 998 - 8325 if you require any further information or clarification.

Yours truly,

Jacint Domenech Responsible Care Director Dow Alberta Operations

Copy: Pravind Ramdial, Responsible Care Leader MEGlobal Canada ULC



Dow Fort Saskatchewan Site 2016 Noise Management Annual Report Prepared for Northeast Capital Industrial Association (NCIA)

This report provides Dow and MEGlobal's 2016 input to the NCIA Regional Noise Management Plan report to be submitted to the AER in June 2017. Based on AER licensed assets on the Fort Saskatchewan Site, Dow is required to follow AER Noise Directive 38 and provide input into the NCIA report. The Dow power plant is governed by the Alberta utilities Commission Rule 012: Noise Control. MEGlobal participates in the Noise Management Plan and provides this information on a voluntary basis.

Input Description	Dow and MEGlobal Comments
Confirmation that site has implemented a best management practice to address environmental noise as per NCIA Noise Management Plan Standard 2010-003 issued 3-Sep-10, revised 5-Mar-13, revised 14-Apr-14, revised 31-Mar-16 including the Procedure/Practice/Standard reference.	A Noise Management Plan was developed by Dow and MEGlobal for submission to NCIA for inclusion in the 2011 NCIA report to the AER. A copy of the most recent version is included with this report. Noise management is done on a site wide basis without separation of which facilities are required to follow AER Directive 38 and AUC Rule 012.
Attach results of any monitoring / assessments (fenceline outward) completed in 2016. Note, you are not required to conduct any off-site monitoring.	No noise monitoring (fenceline outward) was completed in 2016. The site noise model was updated in 2014 for all sources (other than on-site transportation) within the Dow Fort Saskatchewan Site, including MEGlobal. Recent updates to the Dow site model have been incorporated into the NCIA regional noise model.
Disclose any improvements/corrective actions implemented in 2016 or status thereof that would impact the noise level output for your site (either up or down).	Changes were made to a Dow site steam turbine in 2012 which has resulted in significantly less venting of a seasonally operated steam vent during the summer season.
Did those changes result in a requirement to update your site noise model? If so, have you provided your updated site model to SLR Consulting for incorporation into the NCIA Regional Noise Model as per the process outlined for this purpose?	Since the spring 2012 turnaround, we have seen a significant decrease in the number of days that this steam vent has been open. However, the intensity of the venting remains similar to prior to the turnaround. This source was removed from the NCIA regional noise model during the most recent update but remains in the Dow site model as part of a worst case.
Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down). Will these changes result in a requirement to update your site noise model? If so, when do you anticipate having an updated site model available?	In 2017, Dow will continue track the frequency of time that the steam vent is operated as well as the valve position to ensure that the frequency remains reduced from pre-turnaround and will plan for field monitoring only if the intensity of the sound when the vent is operating changes over time.

Disclose any audit/self-assessment evaluation (qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan in 2016.	The noise management plan falls within the Pollution Prevention section of Dow and MEGlobal's Operating Discipline Management System (ODMS). A site management system review was most recently conducted in November 2014 by the site leader. No actions or gaps were identified related to the Noise Management Plan.
	In March 2014, the AER conducted an audit of the Dow Site Noise Management Plan. Dow participated fully in the audit and provided all requested information to the AER auditor including, most recently, an updated source order ranking for each residence near the Dow site in January 2015. No additional self assessments were completed in 2016.
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	There were no noise complaints in 2016 related to Dow or MEGlobal operations at the site.

Dow Fort Saskatchewan Site Noise Management Plan

Policy	The Dow Chemical Canada ULC Fort Saskatchewan site follows the Operating Discipline Management System (ODMS) of the Dow Chemical Company to manage environmental noise and hearing conservation. MEGlobal Canada ULC (MEGlobal) Operations on the Dow Fort Saskatchewan Site follows ODMS and is included in this Noise Management Plan.		
Scope	This document is created to define how the Dow Chemical Canada ULC Fort Saskatchewan site complies with the ODMS requirements concerning Noise Minimization and Hearing Conservation outlined in:		
	 Section E (noise minimization to meet community expectations and applicable government requirements) of <u>06.07 L1 Pollution Prevention</u> Section C14 (employee hearing conservation) of <u>06.05 L1 Employee Health and Safety</u> 		
	 Section A2 (all equipment must be designed to control noise levels) of <u>06.03</u> <u>EH&S Engineering Design and Control</u> 		
Purpose	This document summarizes how the Dow Fort Saskatchewan Site meets the Northeast Capital Industrial Association (NCIA) requirement for a Noise Management Plan including identification, evaluation and control of noise impacts at this site.		
	This Noise Management Plan meets the requirements of NCIA Standard and Guideline #2010-003, as amended.		
	Based on AER licensed assets on the Fort Saskatchewan Site, Dow is required to follow AER Noise Directive 38 and provide input into the NCIA report. The Dow power plant is governed by the Alberta Utilities Commission Rule 012: Noise Control.		
Goals /	Dow and MEGlobal, as Responsible Care® Companies will:		
Objectives	 Minimize, to the extent possible, noise levels impacting on the environment including minimizing nighttime and low frequency noise Maintain a noise monitoring program to reduce the likelihood of noise impacts on the environment Assign employees to manage the site noise monitoring, mitigation and continuous improvement. 		
	 Ensure employees associated with noise sources are aware of the impact on the environment and the processes in place to control Design new and modified equipment to minimize noise. 		
Training	Workers are educated on noise through:		
Requirements	 All workers receive initial and three year recurring Environmental Training (Instructor led or online), which includes environmental noise. Noise exposed workers receive training on hearing conservation. Personnel conducting noise monitoring receive training from the Industrial Hygiene specialists. Personnel delivering unit industrial hygiene programs receive training on these programs. 		
	 Training is tracked in a corporate web based system. 		

Abatement Strategies	New facilities and modifications to existing facilities are designed and built to control noise levels. Engineering controls are addressed through the Management of Change process and ODMS 06.03 EH&S Design and Control.
	All projects are reviewed by EH&S regulatory personnel opposite the <u>Alberta</u> <u>Operations Project Regulatory Review Checklist</u> , which includes noise abatement and models. The Dow Management of Change system includes a similar review for changes to site facilities.
Onsite / Offsite Monitoring Requirements	Dow and MEGlobal follow ODMS and AER regulatory requirements for noise monitoring on site. Offsite noise monitoring is addressed through the NCIA regional noise model.
	Dow has a current <u>Noise Model</u> prepared by SLR Consulting Ltd. which includes all significant site sources within the fenceline other than on-site transportation sources. The site noise model is updated if equipment is added or removed from the site that would significantly impact noise levels.
	The regional noise model is validated periodically by NCIA. If any discrepancies are noted during NCIA field validation related to the Dow site, Dow will work toward resolving the discrepancy and may validate the Dow noise model with field measurements if required.
	Dow responds to external noise complaints appropriately, including monitoring if necessary.
	Dispatch Noise Complaint Procedure EH&S On-Call Noise Complaint Procedure EH&S On-Call Noise Complaint Logsheet
	Individual production units do their own noise surveys at least every five years, or when equipment is added, modified or removed.
	The onsite noise monitoring program is managed as per in ODMS 06.05.C14
	Personal noise dosimetry is done periodically on a frequency depending on exposure.
Site Noise Sources	Site noise sources are detailed in the site <u>Noise Model</u> and included in the NCIA regional noise model. In addition, each unit has an area <u>noise map</u> .
Audit / Self Assessment Requirements	Intensive EH&S ODMS based integrated audits are conducted at 3 to 5 year frequencies for all site units/departments and include ODMS elements related to noise and hearing conservation.
	Periodic self-assessments are conducted by unit/department ODMS element owners and results are reviewed with leaders at unit and department management system reviews. Results of unit, department and site self-assessments are reviewed by the Site Leader at the annual site management system review. These self-assessments include environmental noise and hearing conservation.
	The hearing conservation program is designed to minimize job induced hearing loss and meets the Alberta OH&S Code as well as Dow corporate requirements for a noise exposure and control program. This program is reviewed annually.
	This Noise Management Plan is reviewed once per year by the Responsible Care Leader.

Reporting Requirements	Annual reports will be generated for the NCIA. This report will include the following information for the calendar year:	
	 Confirmation that the site has implemented a Noise Management Program and that it has been reviewed/updated as required. Results of any monitoring / assessments (fenceline outward) Improvements/Corrective Actions implemented Improvement / projects that have resulted in changed noise levels on the site Audit/Self-Assessment evaluation Information on any external noise complaints received and actions taken 	
Ownership	The AER Regulatory Specialist manages the Noise Management Program and reports to NCIA as required.	
Revision H	istory	
Approval	Approved by Date: January 2012	
	Carol Moen (Dow Responsible Care Leader)	
	Pravind Ramdial (MEGlobal Responsible Care Leader)	

Review History The following documents the review history for this file.

Reviewed By Position Date Dow Responsible Care Leader April 2013 Mike Dziarmaga May 2014 Mike Dziarmaga Dow Responsible Care Leader August 2015 Mike Dziarmaga Dow Responsible Care Leader June 2016 Mike Dziarmaga Dow Responsible Care Leader June 2017 Jacint Domenech Dow Responsible Care Leader

Revision History The following information documents at least the last 3 changes to this document, with all the changes listed for the last 6 months.

Date	Revised By	Changes
January 2012	Marcella deJong	New document.
April 2013	Marcella deJong	Updated Reporting Requirements to match with updated NCIA NMP Standard dated 5-Mar-13.
May 2014	Marcella deJong	Updated with clarifications suggested during AER audit of the Noise Management Plan and to meet the current NCIA standard revised in April 2014.
May 2016	Marcella deJong	Updated MEGlobal Canada Inc. to MEGlobal Canada ULC. Updated HFP to SLR.
June 2017	Marcella deJong	Replaced "MyLearning" with "online".

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Enbridge Pipelines Inc.

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

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Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down).	
Will these changes result in a requirement to	
update your site noise model?	
If so, when do you enticipate having an	
If so, when do you anticipate having an updated site model available?	
Disclose any audit/self-assessment evaluation	N/A
(qualitative evaluation only, with senior site	
leader sign-off) completed for your site noise	
management plan in 2016.	
Provide a Noise Complaint summary for all	No complaint
noise complaints received in 2016 including	
any actions taken to address them.	

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Evonik Canada Inc.

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

Input Description	Member Site Comments
	Weinder Site Comments
Confirmation that site has implemented a best management practice to address environmental noise as per NCIA Noise Management Plan Standard 2010-003 issued 3-Sep-10, revised 5- Mar-13, revised 14-Apr-14, revised 31-Mar-16 including the Procedure/Practice/Standard reference.	Confirmed. Relevant Evonik site policy was provided in 2014 and has remained unchanged since then.
Note, if you have not provided an electronic copy of your site plan to NCIA, please do so.	
Provide a summary of any monitoring (fence	
line outward completed in 2016.	No monitoring or assessment required or
	carried out in 2016.
Note, you are not required to conduct any off- site monitoring.	
Disclose any improvements/corrective actions	
implemented in 2016 or status thereof that would impact the noise level output for your site (either up or down).	None to disclose at this time.
Did those changes result in a requirement to update your site noise model?	
If so, have you provided your updated site model to SLR Consulting for incorporation into the NCIA Regional Noise Model as per the	
process outlined for this purpose?	

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Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down).	None to disclose at this time.
Will these changes result in a requirement to update your site noise model?	
If so, when do you anticipate having an updated site model available?	
Disclose any audit/self-assessment evaluation (qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan in 2016.	2016 assessment and evaluation conducted by Evonik ESHQ/OH experts. Suitable report excerpt available upon request.
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	No complaints.

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Insert your Company Name here: KEYERA ENERGY LTD.

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

Input Description	Member Site Comments
Confirmation that site has implemented a best	Confirmed. The site has a noise management
management practice to address environmental	plan based on the current NCIA standard. The
noise as per NCIA Noise Management Plan	document is called KFS Site Noise
Standard 2010-003 issued 3-Sep-10, revised 5-	Management Plan.
Mar-13, revised 14-Apr-14, revised 31-Mar-16	
including the Procedure/Practice/Standard	NCIA has a copy of the current plan.
reference.	
Note, if you have not provided an electronic	
copy of your site plan to NCIA, please do so.	
Provide a summary of any monitoring (fence	No off-site monitoring was completed in 2016.
line outward completed in 2016.	
Note, you are not required to conduct any off-	
site monitoring.	
Disclose any improvements/corrective actions	Construction of a second Fractionation unit
implemented in 2016 or status thereof that	also took place during 2015, with commissioning
would impact the noise level output for your	and operation commencing in
site (either up or down).	the spring of 2016.
Did those changes result in a requirement to	The noise modeling was completed as part of the
update your site noise model?	engineering, design and approval part of the
	project in 2015. The was completed by SLR.
If so, have you provided your updated site	
model to SLR Consulting for incorporation into	
the NCIA Regional Noise Model as per the	
process outlined for this purpose?	

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Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down).	No improvements or projects are approved or have been completed to date in 2017.
Will these changes result in a requirement to update your site noise model?	
If so, when do you anticipate having an updated site model available?	
Disclose any audit/self-assessment evaluation (qualitative evaluation only, with senior site leader sign-off) completed for your <i>site noise</i> <i>management pla</i> n in 2016.	No audit/self-assessments were completed for our <i>site noise management pla</i> n in 2016.
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	There were no noise complaints received in 2016.

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Access Pipeline (Stonefell Terminal – Operating on Behalf of MEG Energy)

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

Input Description	Member Site Comments
Confirmation that site has implemented a best management practice to address environmental noise as per NCIA Noise Management Plan Standard 2010-003 issued 3-Sep-10, revised 5- Mar-13, revised 14-Apr-14, revised 31-Mar-16 including the Procedure/Practice/Standard reference.	Access abides by AER's Directive 38.
Note, if you have not provided an electronic copy of your site plan to NCIA, please do so.	
Provide a summary of any monitoring (fence line outward completed in 2016.	A noise monitoring was not conducted in 2016.
Note, you are not required to conduct any off- site monitoring.	
Disclose any improvements/corrective actions implemented in 2016 or status thereof that would impact the noise level output for your site (either up or down).	N/A
Did those changes result in a requirement to update your site noise model?	
If so, have you provided your updated site model to SLR Consulting for incorporation into the NCIA Regional Noise Model as per the process outlined for this purpose?	

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Disclose any improvements/projects that are approved for 2017 that would impact the noise	There are no anticipated projects or improvement for 2016 that may impact noise
level output for your site (either up or down).	levels.
Will these changes result in a requirement to update your site noise model?	
If so, when do you anticipate having an updated site model available?	
Disclose any audit/self-assessment evaluation (qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan in 2016.	None.
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	Access Pipeline did not receive any noise complaints for the 2016 year.

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North West Redwater Partnership

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

Input Description	Member Site Comments
Confirmation that site has implemented a best	Throughout 2016 NWR has been in
management practice to address environmental noise as per NCIA Noise Management Plan Standard 2010-003 issued 3-Sep-10, revised 5- Mar-13, revised 14-Apr-14, revised 31-Mar-16 including the Procedure/Practice/Standard reference.	construction mode related to the first phase of the Sturgeon Refinery. Construction activity will remain ongoing throughout 2017, with certain pre-commissioning activities occurring in H2 2017.
Note, if you have not provided an electronic copy of your site plan to NCIA, please do so.	The Noise Management Plan adopted by NWR and as reflected in its model is to purchase equipment with noise characteristics as required for OH&S compliance, and to perform in accordance with model expectations.
Provide a summary of any monitoring (fence line outward completed in 2016.	As there has been no operational period whatsoever for the NWR facility, there have been no tests of actual vs modelled
Note, you are not required to conduct any off- site monitoring.	performance. Such tests will follow early operations periods, likely in 2018.
Disclose any improvements/corrective actions implemented in 2016 or status thereof that would impact the noise level output for your site (either up or down). Did those changes result in a requirement to update your site noise model? If so, have you provided your updated site model to SLR Consulting for incorporation into the NCIA Regional Noise Model as per the process outlined for this purpose?	There have been no notable updates to the Noise Model built by SLR Consulting (and their predecessor) and currently incorporated into the NCIA regional noise model. NWR has provided all required permissions to SLR and NCIA regarding use of data and model results into the regional model. A copy of the NWR- specific noise model was submitted to the AER (predecessor – EUB/ERCB) and accepted (circa 2007~2008).

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Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down). Will these changes result in a requirement to update your site noise model? If so, when do you anticipate having an	N/A
updated site model available? Disclose any audit/self-assessment evaluation	N/A
(qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan in 2016.	
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	None.

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Oerlikon Metco (Canada)

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

Input Description	Member Site Comments
Confirmation that site has implemented a best management practice to address environmental noise as per NCIA Noise Management Plan Standard 2010-003 issued 3-Sep-10, revised 5- Mar-13, revised 14-Apr-14, revised 31-Mar-16 including the Procedure/Practice/Standard reference.	Yes and a copy had been provided
Note, if you have not provided an electronic copy of your site plan to NCIA, please do so.	
Provide a summary of any monitoring (fence line outward completed in 2016.	None conducted
Note, you are not required to conduct any off- site monitoring.	
Disclose any improvements/corrective actions implemented in 2016 or status thereof that would impact the noise level output for your site (either up or down).	No improvements or corrective actions conducted
Did those changes result in a requirement to update your site noise model?	
If so, have you provided your updated site model to SLR Consulting for incorporation into the NCIA Regional Noise Model as per the process outlined for this purpose?	

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Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down). Will these changes result in a requirement to update your site noise model? If so, when do you anticipate having an updated site model available?	No improvement projects
Disclose any audit/self-assessment evaluation (qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan in 2016.	No audit or self-assessment conducted
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	No noise complaints received

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Pembina NGL Corporation – Redwater Facilities (I & II)

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

Input Description	Member Site Comments
Confirmation that site has implemented a best	Pembina Redwater facilities have a Noise
management practice to address environmental	Management Program, which includes
noise as per NCIA Noise Management Plan	implementation of Best Management Practices
Standard 2010-003 issued 3-Sep-10, revised 5-	to address environmental noise as per the
Mar-13, revised 14-Apr-14, revised 31-Mar-16	NCIA Noise Management Plan.
including the Procedure/Practice/Standard	
reference.	
Note, if you have not provided an electronic	
copy of your site plan to NCIA, please do so.	
Provide a summary of any monitoring (fence	None completed.
line outward completed in 2016.	
Note, you are not required to conduct any off-	
site monitoring.	
Disclose any improvements/corrective actions	No improvements or corrective actions were
implemented in 2016 or status thereof that	implemented in 2016.
would impact the noise level output for your	
site (either up or down).	
Did those changes result in a requirement to	
update your site noise model?	
If so, have you provided your updated site	
model to SLR Consulting for incorporation into	
the NCIA Regional Noise Model as per the	
process outlined for this purpose?	

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Disclose any improvements/projects that are	The following projects are approved for
approved for 2017 that would impact the noise	construction, and will become operational in
level output for your site (either up or down).	2017 (or shortly thereafter):
	1) RFS III Fractionation plant: A mirror
Will these changes result in a requirement to	image of RFS II to increase
update your site noise model?	fractionation capacity. The site noise
	model was updated to include this
If so, when do you anticipate having an	expansion.
updated site model available?	2) South Rail Yard Expansion project:
	The south rail yard is being expanded
	to increase rail car storage capacity on-
	site. Overall objective is to increase
	loading/unloading efficiencies, and to
	support the new diesel rail loading
	facility being constructed for NWR.
Disclose any audit/self-assessment evaluation	None completed.
(qualitative evaluation only, with senior site	
leader sign-off) completed for your site noise	
management plan.	
Provide a Noise Complaint summary for all	None received.
noise complaints received in 2016 including	
any actions taken to address them.	

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Plains Midstream Canada:

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

Input Description	Member Site Comments
Confirmation that site has implemented a best	The Facility has an Environmental Noise
management practice to address environmental noise as per NCIA Noise Management Plan	Management Practice. The practice is part of the site ISO 14001 certified management
Standard 2010-003 issued 3-Sep-10, revised 5-	system (FSK-P-36-00-12).
Mar-13, revised 14-Apr-14, revised 31-Mar-16	system (15111 50 00 12).
including the Procedure/Practice/Standard	
reference.	
Note, if you have not provided an electronic	
copy of your site plan to NCIA, please do so.	
Provide a summary of any monitoring (fence	No monitoring/assessments were completed in
line outward completed in 2016.	2016.
Note, you are not required to conduct any off-	
site monitoring.	
Disclose any improvements/corrective actions	Construction activities continued on with the
implemented in 2016 or status thereof that	Phase 1 & 2 Expansion project in 2016. This
would impact the noise level output for your site (either up or down).	development began with the final construction of a new facility brine pond, washing of storage
site (entiter up of down).	caverns, operation of associated infrastructure
Did those changes result in a requirement to	to support the cavern development,
update your site noise model?	construction of new NGL storage facility, and
	infrastructure installation for a new truck off-
If so, have you provided your updated site model to SLR Consulting for incorporation into	loading terminal.
the NCIA Regional Noise Model as per the	The expansion has resulted in the site
process outlined for this purpose?	conducting a noise impact assessment which
	was subsequently used to update the Regional
	Noise Model in 2014.
	SLR Consulting conducted the NIA and
	updated the model with the information.

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Disclose any improvements/projects that are approved for 2017 that would impact the noise	The Facility will be continuing on with the Phase 1, 2 & 3 expansion plans in 2017. This
level output for your site (either up or down).	will include the commissioning of a new
	facility brine pond, washing and development
Will these changes result in a requirement to	of underground storage caverns, construction
update your site noise model?	of additional infrastructure (Merox Plant) at the
If so, when do you anticipate having an	fractionation plant, and additional earthworks to facilitate required surface water drainage
updated site model available?	upgrades.
*	
	These activities may result in changes that
	require the facility to update the Regional
	Noise Model. This will be evaluated as we proceed with expansion activities.
	· · ·
Disclose any audit/self-assessment evaluation	No audits or self-assessment evaluations were
(qualitative evaluation only, with senior site	completed in 2016.
leader sign-off) completed for your site noise	
management plan in 2016.	
Provide a Noise Complaint summary for all	No noise complaints were received by the
noise complaints received in 2016 including	Facility in 2016.
any actions taken to address them.	

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per Section 5.4 of this Standard		31-March-16	0

Shell Scotford Site

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

Input Description	Member Site Comments
Confirmation that site has implemented a best	In 2014, Shell Scotford amalgamated
management practice to address environmental	individual (Refinery, Chemicals, and
noise as per NCIA Noise Management Plan	Upgrader) Site NMPs into one document. It is
Standard 2010-003 issued 3-Sep-10, revised 5-	called the Shell Scotford Site Noise
Mar-13, revised 14-Apr-14 (attached),	Management Plan
including the Procedure/Practice/Standard	(SUG.HSSE.ENV.AIR.NOIS.M.002).
reference.	Document attached.
Note, if you have not provided an electronic copy of your site plan to NCIA, please do so.	SUG.HSSE.ENV.NOIS .M.002_Site_Noise_M
Attach results of any monitoring/assessments	No monitoring/assessments completed in 2016
(fenceline outward) completed in 2016.	
Note, you are not required to conduct any off- site monitoring, however if you did, please provide those results electronically to NCIA.	
Disclose any improvements/corrective actions	
implemented in 2016 or status thereof that	Site model update was done for Quest in 2016
would impact the noise level output for your	
site (either up or down).	Site model update was done for Chemical Plant in 2016.
Did those changes result in a requirement to	
update your site noise model?	
If so, have you provided your updated site	
model to SLR Consulting for incorporation into	
the NCIA Regional Noise Model as per the	
process outlined for this purpose?	

Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Number	
Noise Management Plan Reporting Requirements as		Rev. Date	Rev.
per Section 5.4 of this Standard		31-March-16	O

Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down). Will these changes result in a requirement to update your site noise model? If so, when do you anticipate having an updated site model available? Disclose any audit/self-assessment evaluation (qualitative avaluation only, with series site)	Debottleneck Project will require our site model update. This will happen in 2018. Internal audit will be conducted is 2017.
(qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan.	
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	No noise complaints received in 2016.

Shell Scotford Site Noise Management Plan

Document Review and Approval					
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Elaine Rippon					
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Version 2 27-November-2014

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1 POLICY

Royal Dutch Shell's Commitment and Policy on Health, Security, Safety, the Environment and Social Performance demonstrates commitment for reducing environmental and social impacts resulting from our operations. For Shell Scotford, noise is actively managed by instituting controls, and measures up front when designing or changing parts of the process that generate noise, and by also measuring and monitoring to ensure controls are effective. This Site Noise Management Plan is part of the Scotford's ongoing commitment to the environment, our neighbours, and social performance. The Scotford Leadership Teams are committed to controlling noise and support the contents of this Site Noise Management Plan.

2 NOISE MANAGEMENT PROGRAM

2.1 Goals and Objectives

2.1.1 Regulatory Compliance

Noise is regulated by the Alberta Energy and Resources Conservation Board (ERCB), Directive 038, "Noise Control Directive - User Guide" and applies to all facilities where the ERCB has issued a permit to operate. Section 5.1 of the Noise Control Directive states,

"A facility is in compliance if a CSL (comprehensive sound level) survey conducted at representative conditions has results equal to or lower than the established PSL (permissible sound level), taking into consideration any LFN (low frequency noise). Alternatively, if the ERCB agrees that a CSL survey is not practical, a detailed Noise Management Plan (NMP) approved by the ERCB may be used."

The Industrial Heartland is considered an area where a CSL survey is not practical due to the large industrial base in a relatively small area. As such, all NCIA (Northeast Capital Industrial Association) member companies in the Industrial Heartland are mandated to participate in the Regional Noise Management Plan developed by the NCIA. The RNMP is designed with the intent of minimizing, to the extent practical, the noise levels impacting on the environment from member companies and their associated industrial facilities. The RNMP ensures that NCIA member

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companies adopt best practices and principles in noise management and that each member company will implement a Site NMP (noise management plan) independently. Each NMP must include:

- identification of noise sources,
- assessment of current noise mitigation programs,
- performance effectiveness of noise control devices,
- methods of noise measurement,
- best practices programs, and
- continuous improvement programs

Compliance with D-38 is to be demonstrated through conformance with the RNMP on the basis of due diligence for noise control (taking all reasonable steps to reduce a given impact). Key expectations with respect to compliance are as follows:

- Conformance with individual facility programs implementing best practices in monitoring, abatement, self audit, annual reporting and other program details.
- Complaint Resolution partnership with regulator to determine adequate resources to manage complaints to a "workable resolution".
- 3.Readiness for potential management system (Site NMP) audit similar to other regulated activities under current monitoring and enforcement rules.
- 4. Participation in development and maintenance of a Regional Noise Model - the model provides a baseline for industrial noise and allows for an empirical assessment of potential problem area and sources.
- 5. Tracking noise management initiatives and providing an annual status to NCIA to facilitate a comprehensive annual report to the ERCB.

Companies that do not demonstrate conformance with the plan would default to Permissible Sound Level (PSL) compliance under Directive 038.

2.1.2 Noise Control Objectives

Shell recognizes that it is not practical or possible to eliminate all sources of noise. However, it is expected that wherever possible, noise

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control practices and mitigation will be in place to minimize noise, for example, maintaining a noise standard when procuring new equipment or taking into consideration possible noise impacts when instituting plant process changes. It also includes how Shell operates including employing the use of silencers and mufflers, or simply keeping doors on buildings closed.

Shell takes a proactive approach for activities that could have an environmental impact such as noise. When planning work that could generate excessive noise, such as boiler blow downs or flaring for example, it is important to assess the community impact and communicate with stakeholders as required. It is also Shell's approach to avoid practices that create excessive noise during evening hours and weekends whenever possible.

If despite proactive measures a resident expresses concern that they are impacted by plant operation, Shell will immediately initiate a complaint protocol and work in collaboration with the resident to attain resolution.

2.1.3 Continuous Improvement and Best Practices

For Shell, continuous improvement from a noise perspective means to examine noise sources to discover and eliminate problems. Examination of noise sources is accomplished through Industrial Hygiene (IH) noise surveys, noise modelling, and offsite noise surveys. When any of these tools identifies a potential unacceptable noise level, mitigation plans are implemented.

Shell educates and trains their staff on the Noise Management Plan during Operations Compliance Training.

Shell stays current by attending the bi-annual noise conference (hosted by the Alberta Acoustics & Noise Association) and having active representation on the NCIA Noise Best Practices Sub-committee. In the way Shell will be aware of the latest technology and advancements in the noise field and institute best practices accordingly.

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2.1.4 Facility Communication Strategies

Where noise has been identified as a potential issue with the community, Shell will notify stakeholders in advance of the activity by utilizing the NRCAER line.

If a noise concern is received from a stakeholder, then <u>SDP11021 Public</u> <u>Concern Response Practice</u> is activated and followed and the <u>SUG.HSSE.ENV.NOIS.P.001 Noise Sampling Practice</u> is initiated and followed. All relevant information is entered in the <u>SDF11021 Public</u> <u>Concern Form</u> and the <u>SUG.HSSE.ENV.NOIS.TO.001 Fenceline Noise Monitoring</u> <u>Form</u> along with an incident report being entered into FIM (Fountain Incident Management).

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2.2 Roles and Responsibilities

Department or Title	Roles
Community Affairs	 Notification to neighbours for planned activities.
	• Reactive communications to neighbours concern.
	• Monitor operations response to public concern.
Shift Supervisor or Designate	 Initiate investigation for public concern for operating units
	• Perform fence-line noise surveys.
	• If required follow-up with concern in off- hours (PA during normal hours).
Environment Department	 Support to Operations for investigation of noise concern, conducting fence-line noise surveys & regulatory notifications.
	• Data analysis and external noise surveys.
	• Maintain site noise model.
Industrial Hygiene	• Primary support for onsite noise monitoring.
Security	• Initial contact for public concern.

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2.3 Monitoring and Measuring

2.3.1 Fenceline Monitoring

When a public concern is received and the <u>SDP 11021 Public Concern</u> <u>Response Practice</u> is activated, as stated in 2.1.4, or activities on site create the need to monitor noise levels, fenceline noise measurements are conducted.

Fenceline measurements are conducted as per <u>SUG.HSSE.ENV.NOIS.P.001 Noise</u> <u>Sampling Practice</u> and results are recorded on <u>SUG.HSSE.ENV.NOIS.TO.001</u> Fenceline Noise Monitoring Form.

If the need arises for any other type of noise monitoring, a request can be submitted through <u>SUG.HSSE.ENV.NOIS.TO.002 Request for Non-Routine</u> Noise Sampling.

2.3.2 Industrial Hygiene (IH) Surveys

IH Surveys are done on a request basis, or at a minimum a unit noise survey is conducted every 4 years. All results and reports are stored in Livelink.

Shell is regulated under the Alberta OH&S Code and participates in the Hearing Conversation Program set forth in the code. IH is responsible to ensure that workers get noise dosimeter testing done every 2 years as part of this program.

2.3.3 Noise Modelling

A detailed noise model was developed for the Shell Scotford Upgrader in 2006 and can be viewed here <u>2006 Noise Model</u>. The model identifies all noise sources within the base Upgrader.

The Upgrader Expansion started operations in June 2011. It is Shell's intent to update the original 2006 Model to include the Expansion facilities, and to identify any changes to the existing Base plant, by the end of 2014.

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2.3.4 Routine Monitoring

There is currently no routine monitoring being done at Shell Scotford, due to the fact there has not been a residence complaint since 2004 and the results of the 2005 Noise Model demonstrated satisfactory offsite noise levels.

An offsite noise survey of the Shell facilities will be completed in 2014 to determine the offsite CSL's post Expansion project start up.

The results of this survey along with the information obtained from the upcoming model will determine what, if any, routine monitoring will be conducted.

2.4 Noise Control

Proactively ensuring mitigative measures and controls are considered in order to minimize the impact of noise when implementing facility design changes or purchasing new equipment is a key principle of noise control. When implementing a change at Shell Scotford, whether it's new equipment or a modification to existing equipment, the MOC (Management of Change) process must be followed. For the Upgrader, Shell's definition of a plant change can be found in <u>SUG.CON.MOC.C.001 Definition of Plant</u> <u>Change</u>. For Manufacturing, changes that do not require following the MOC process are listed in <u>SCM-MOC-SP-01 Changes Not Requiring Management of Change (MOC)</u>.

The <u>Management of Change Quality Assurance Manual</u> describes the work process for all managed changes within the Shell Scotford Upgrader. The <u>SCM-MOC-PR-01 Management of Change (MOC) Procedure</u> describes the work process for all managed changes within Shell Scotford Manufacturing. Any change that may increase noise as per <u>SUG.CON.MOC.G.001 Environmental</u> <u>Guideline for Noise Producing Equipment</u>.needs to be reviewed and signed off by both the Environment department and Industrial Hygiene as per <u>SUG.CON.MOC.C.003 Discipline Review Parties Matrix</u> for the Upgrader, and the <u>SCM-MOC-G-06 Discipline Reviewer Matrix for Manufacturing</u>

3 AUDIT/SELF ASSESSMENT

Noise is included in the scope of ongoing ISO 14001 audits and the HSSE MS internal audits under social performance. Audit findings are recorded

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in Fountain Assurance Management (FAM) with related action items assigned to individuals. Audit findings are reviewed by Upgrader Leadership Team.

An internal audit specific to the Site NMP against the NCIA Standards and Guidelines will be done every 3 years.

Audit results and findings will be included in the annual summary to NCIA to be included in the NCIA Annual Noise Report to ERCB.

4 REPORTING

All routine sampling results, non-routine sampling results, monitoring surveys, and modelling results are stored in Shell's Livelink and/or Sharepoint system.

Shell has the responsibility to provide input into the Annual Regional Noise Management Plan report, which is submitted to the ERCB by NCIA. Information to be provided is as follows:

- Confirmation that site has implemented a best management practice to address environmental noise as per NCIA Noise Management Plan Standard 2010-001 issued 3-Sep-10.
- Procedure/Practice/Standard reference (i.e. SOP-AG-RW-200-002)
- Results of any monitoring/assessments (fenceline outward) completed in the reporting year.
- Improvements implemented for the reporting year.
- Changes that have resulted in increased noise levels on your site for the year reporting on.

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- Noise Complaints received and follow up actions taken to address them.
- Planned improvements to noise management practice, noise abatement work or noise model work for the upcoming year.



global environmental solutions

Addendum to the 2015 Shell Scotford Noise Model Update on issues related to the Chemicals Plant model validation

Rev 0

November 2016 SLR Project No.: 203.50049.00004



ADDENDUM

TO THE 2015 SHELL SCOTFORD NOISE MODEL UPDATE

ON ISSUES RELATED TO THE CHEMICALS PLANT MODEL VALIDATION

SLR Project No.: 203.50049.00004

Prepared by SLR Consulting (Canada) Ltd. 1185 – 10201 Southport Road Calgary AB T2W4X9

for

Shell Canada LTD. 55522 Range Road 214 Fort Saskatchewan, AB T8L 4A4

November 28, 2016



2016-11-29

Chris Bibby, M.A.Sc., P.Eng. Intermediate Engineer Reviewed by:

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Distribution: 1 copy – Shell Canada Ltd. (pdf) 1 copy – SLR Consulting (Canada) Ltd.

EXECUTIVE SUMMARY

The Shell Canada (Shell) Scotford Complex is comprised of Refinery, Base Upgrader, Expansion Upgrader, and Chemicals sites. Shell maintains a computer noise model of these sites, as required by the Northeast Capital Industrial Association (NCIA) Regional Noise Management Plan (RNMP). SLR Consulting (Canada) Ltd. (SLR) recently updated the Scotford noise model, as documented in the 2015 Noise Model Update report.

The 2015 Noise Model Update included validation of all Scotford plant sites by comparing predicted sound levels to measured sound levels on roadways throughout the Complex. The Chemicals site model was shown to over-predict the measured level in specific areas. The noise sources with the highest predicted sound level contribution in these areas were identified.

This addendum documents work completed to improve the accuracy of the Chemicals site noise model.

Diagnostic sound level measurements were conducted on key pieces of Chemicals site equipment identified in the 2015 Shell Scotford Noise Model Update report. The measurement results were processed to determine equipment sound power levels, which were then updated in the Chemicals site noise model. Revisions to the model include 21 added sources, 56 updated sources, and 9 removed sources. Model validation was improved considerably; at the 39 validation locations, all predicted sound levels were within 3 dBA of the measured level and the average difference between the predicted and measured levels was 0.9 dBA.

The revisions documented in this addendum resulted in a 0.1 to 1.0 dBA decrease in the overall Shell Scotford Complex sound level contributions at all environmental receptor locations.

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Appendix B	Model Validation Tables and Figures
Appendix C	Environmental Noise Contour Figures
Appendix D	Order-Ranked Lists

1.0 INTRODUCTION

The Shell Canada (Shell) Scotford Complex is comprised of Refinery, Base Upgrader, Expansion Upgrader, and Chemicals sites. Shell maintains a computer noise model of these sites, as required by the Northeast Capital Industrial Association (NCIA) Regional Noise Management Plan (RNMP). SLR Consulting (Canada) Ltd. (SLR) recently updated the Scotford noise model, as documented in the 2015 Noise Model Update report¹.

The 2015 Noise Model Update included validation of all Scotford sites by comparing predicted sound levels to measured sound levels on roadways throughout the Complex. The Chemicals site model was shown to over-predict the measured level in specific areas. The noise sources with the highest predicted sound level contribution in these areas were identified.

This addendum documents work completed to improve the Chemicals site model accuracy, including measurements, noise model revisions, and updated sound level predictions.

2.0 EQUIPMENT NOISE MEASUREMENTS

A diagnostic noise survey was conducted by Mr. Chris Bibby, M.A.Sc., and Mr. Matthew Gaskell, C.E.T., of SLR on August 11, 2016. The noise survey was designed to obtain current noise data for key Chemicals site noise sources identified in the 2015 Noise Model Update report. Additionally, SLR conducted measurements of all fin-fan coolers in the MEG unit because VFDs (variable speed drives) have been installed since they were last measured in 2002. VFDs allow the fan speeds to be varied, which will change the noise level produced by the fans.

Operations personnel indicated all Chemicals site equipment was operating normally at the time of the measurements, with the exception of the O_2 Blower (building BY3005) which was not operating. BY3005 was not included in the measurement scope, and the blower operating state is not expected to have impacted the measured noise levels.

The sound measurement instrumentation used for the equipment noise measurements were as follows:

- Brüel & Kjær Type 2270 hand-held analyser
- Brüel & Kjær Type 4189 ½" microphone
- Brüel & Kjær ZC-0032 preamplifier
- Brüel & Kjær UA-1650 wind screen
- Brüel & Kjær Type 4231 calibrator

3.0 EQUIPMENT NOISE LEVELS

86 noise sources in the Chemicals site noise model were modified based on the results of the noise survey conducted in August, 2016, including: 21 added sources, 56 updated sources, and 9 removed sources. Details of the modifications for each source are provided in Appendix A. The resulting effect of these changes on the overall sound power levels of the Chemicals units

¹ SLR Consulting (Canada) Ltd., 2015 Shell Scotford Noise Model Update, SLR Project No.: 203.50049.00001/203.50049.00002, January 18, 2016.

are summarized in Table 1. The total sound power level of the Styrene unit decreased by 0.8 dBA because the HS219 furnace level was reduced and the HS102 furnace was removed². Total sound power level of the MEG unit increased by 3.5 dBA, primarily due to noise from additional and updated fin fan coolers. Total sound power of the Utilities unit decreased by 1.5 dBA due to a reduction in the LP steam header noise levels. The total Chemicals site sound power level increased by 1.5 dBA.

		Sound	l Power Lev	el, dBA
Site	Unit	Before Update	Updated	Change
Chemicals	Styrene	120.8	119.9	-0.8
Chemicals	MEG	123.2	126.7	3.5
Chemicals	Utilities	120.8	119.3	-1.5
Chemicals	All Units	126.5	128.2	1.6

Table 1 Total Sound Power Levels by Unit

4.0 ON-SITE MODEL VALIDATION

The Chemicals model was validated at 39 locations on the roadways around the site. Validation measurement sound levels around the Styrene and Utilities units are the values utilized in the 2015 Noise Model Update report. Validation measurements around the MEG unit were retaken during the August 2016 measurements to ensure the fin-fan cooler operation was typical of summertime conditions.

Chemicals site model validation results are provided in Appendix B. Table B-1 and Figure B-2 show that the predicted sound levels are within ± 3 dBA of the measured levels, which is a very good validity margin for industrial facility noise models. On average, the predicted sound level is 0.9 dBA higher than the measured sound level.

5.0 OFF-SITE PREDICTED SOUND LEVELS

The Shell Scotford sound level contribution has been predicted at 20 off-site locations (identified in Figure 1) using the updated noise model. These receptor locations are identical to those presented in the 2015 Shell Scotford Noise Model Update report. The corresponding noise contour map for these sound level predictions is provided in Appendix C.

The predictions have been calculated using the updated noise source and geometry definitions for the Chemicals site. All predictions correspond to summertime ground and atmospheric conditions with calm winds. The predicted sound level contribution of the Chemicals site and overall Shell Scotford complex before and after the 2016 Chemicals site updates are shown in Table 2.

² Unit operators stated that HS102 only operates during plant start-up and shutdown.

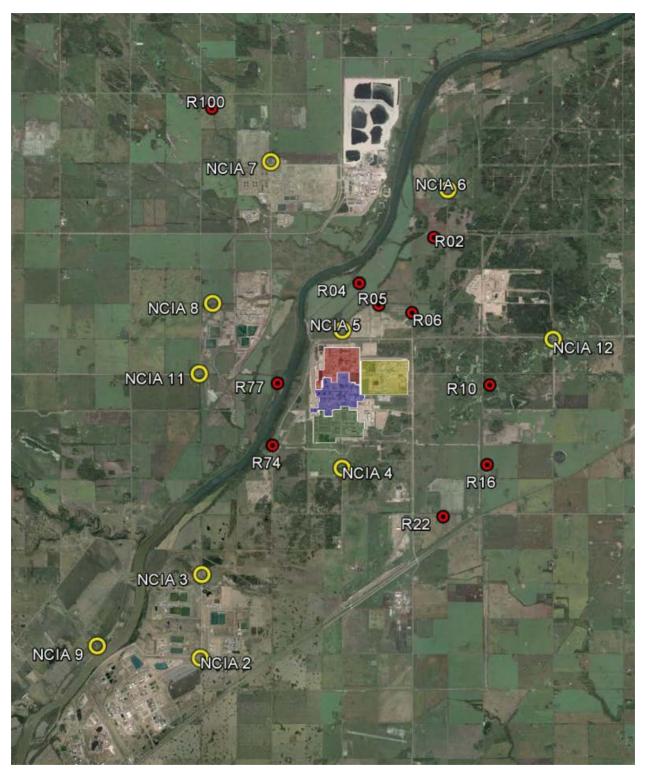


Figure 1 Shell Scotford Noise Receptor Locations

-	Sound Pressure Level, dBA Leq					
-	Chemicals Site			Shell Scotford Total		
Receptor	2015 Update	2016 Addendum	Change	2015 Update	2016 Addendum	Change
R02	29.8	27.5	-2.3	34.4	33.7	-0.7
R04	36.1	34.9	-1.2	43.5	43.3	-0.2
R05	42.4	40.8	-1.6	47.4	46.9	-0.5
R06	41.9	40.0	-1.9	45.4	44.7	-0.8
R10	34.6	34.3	-0.4	38.4	38.3	-0.1
R16	31.5	29.3	-2.1	36.5	36.0	-0.5
R22	29.4	27.6	-1.8	36.6	36.3	-0.3
R74	34.3	31.8	-2.5	46.5	46.4	-0.1
R77	37.8	36.2	-1.6	50.2	50.1	-0.1
R100	18.6	15.8	-2.9	23.5	22.7	-0.8
NCIA 2	18.3	14.8	-3.5	24.0	23.3	-0.7
NCIA 3	21.9	18.3	-3.6	28.8	28.3	-0.5
NCIA 4	38.4	36.6	-1.7	51.0	51.0	-0.1
NCIA 5	44.1	42.6	-1.5	54.2	54.0	-0.1
NCIA 6	25.1	22.1	-3.0	29.8	29.1	-0.7
NCIA 8	26.9	25.3	-1.6	36.6	36.5	-0.1
NCIA 9	16.3	11.7	-4.5	21.2	20.1	-1.0
NCIA 11	27.9	26.2	-1.6	36.7	36.5	-0.1
NCIA 12	27.1	26.2	-0.9	30.5	30.1	-0.4

Table 2 Predicted Sound Levels	Table 2	Predicted	Sound	Levels
--------------------------------	---------	-----------	-------	--------

While Table 1 shows that the overall site sound power level has increased, this increase is predominantly due to updates to the fin-fan coolers. Fin-fan coolers are directional noise sources with a predominantly vertical sound radiation pattern. This noise model update includes appropriate directivity corrections applied to all fin-fan coolers, including those previously modeled as omni-directional noise sources. The net increase in fin-fan cooler noise, coupled with these directivity corrections, is offset by reductions in noise from other sources such as piping, vessels, eductors, valves, and furnaces. As a result, changes to the Chemicals site model resulted in a net decrease in predicted sound level at the receptors of up to 4 dBA (Table 2). The reduction in Chemicals site sound level contribution resulted in a reduction in the Shell Scotford complex noise level of up to 1.0 dBA.

5.1 Order Ranked Lists

Appendix C provides revised order–ranked lists of the top 100 noise source contributors at the receptor locations. These lists are an update to those presented in the 2015 noise model report, incorporating the Chemicals site revisions documented in this addendum.

6.0 CONCLUSION

The Chemicals site noise model has been revised to improve model accuracy. Diagnostic sound level measurements were conducted on key pieces of equipment identified in the 2015 Shell Scotford Noise Model Update report. The measurement results were processed to determine equipment sound power levels, which were then updated in the Chemicals site noise model. Revisions to the model include 21 added sources, 56 updated sources, and 9 removed sources. Model validation has improved considerably; at the 39 validation locations, all predicted sound levels were within 3 dBA of the measured level, and the average difference between the predicted and measured levels was 0.9 dBA.

The revisions documented in this addendum resulted in a 0.1 to 1.0 dBA decrease in the overall Shell Scotford Complex sound level contributions at all environmental receptor locations.

7.0 STATEMENT OF LIMITATIONS

This report has been prepared and the work referred to in this report has been undertaken by SLR Consulting (Canada) Ltd. (SLR) for Shell Canada, hereafter referred to as the "Client". It is intended for the sole and exclusive use of Shell Canada. The report has been prepared in accordance with the Scope of Work and agreement between SLR and the Client. Other than by the Client and as set out herein, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of SLR.

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CB/NM

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APPENDIX A Chemicals Site Equipment Sound Power Levels

Shell Canada Ltd. Shell Scotford Refinery, Upgrader, and Chemicals Plants Addendum to the 2015 Shell Scotford Noise Model Update SLR Project No.: 203.50049.00004

Table A-1

Equipment Sound Power Levels

Shell Scotford Chemicals

Summertime Conditions

			Sound	Sound Power Level (dBA)		
Site	Unit	Tag/Description	2015 Update	Addendum	Change	Remarks
Chemicals	Styrene	FD Air Inlet for HS 104	78.8	78.8	0.0	
Chemicals	Styrene	FD Air Inlet for HS 104	82.8	82.8	0.0	
Chemicals	Styrene	FD Air Inlet for HS 104	78.8	78.8	0.0	
Chemicals	Styrene	FD Air Inlet for HS 104	82.8	82.8	0.0	
Chemicals	Styrene	FD fan moter of HS104	97.4	97.4	0.0	
Chemicals	Styrene	FD fan of HS104	93.1	93.1	0.0	
Chemicals	Styrene	ID fan motor of HS104	96.6	96.6	0.0	
Chemicals	Styrene	Burner of HS 104	87.9	87.9	0.0	
Chemicals	Styrene	Burner of HS 104	87.1	87.1	0.0	
Chemicals	Styrene	Burner of HS 104	87.6	87.6	0.0	
Chemicals	Styrene	Burner of HS 104	86.9	86.9	0.0	
Chemicals	Styrene	Burner of HS 104	87.7	87.7	0.0	
Chemicals	Styrene	Burner of HS 104	87.1	87.1	0.0	
Chemicals	Styrene	Burner of HS 104	87.0	87.0	0.0	
Chemicals	Styrene	Burner of HS 104	88.2	88.2	0.0	
Chemicals	Styrene	Pipe FD fan duct of HS104	97.5	94.5	-3.0	Updated
Chemicals	Styrene	Pipe ID fan duct of HS104	100.3	89.4	-10.9	Updated
Chemicals	Styrene	Cmpr Bldg in NE of EB - wall Eas	96.0	96.0	0.0	
Chemicals	Styrene	Cmpr Bldg in NE of EB - wall nor	95.0	95.0	0.0	
Chemicals	Styrene	Cmpr Bldg in NE of EB - wall sou	95.0	95.0	0.0	
Chemicals	Styrene	Cmpr Bldg in NE of EB - wall wes	96.0	96.0	0.0	
Chemicals	Styrene	INHIB building in NW of EB - ea	83.3	83.3	0.0	
Chemicals	Styrene	INHIB building in NW of EB - no	80.7	80.7	0.0	
Chemicals	Styrene	INHIB building in NW of EB - Ro	83.2	83.2	0.0	
Chemicals	Styrene	INHIB building in NW of EB - so	80.7	80.7	0.0	
Chemicals	Styrene	INHIB building in NW of EB - we	83.3	83.3	0.0	
Chemicals	Styrene	NE Of EB Cmprs Bldg Roof	96.6	96.6	0.0	
Chemicals	Styrene	OMP building in NW of EB - east	91.3	91.3	0.0	
Chemicals	Styrene	OMP building in NW of EB - nort	90.4	90.4	0.0	
Chemicals	Styrene	OMP building in NW of EB - Roof	94.2	94.2	0.0	

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			Sound	Power Level (d	BA)	
Site	Unit	Tag/Description	2015 Update	Addendum	Change	Remarks
Chemicals	Styrene	OMP building in NW of EB - sout	90.4	90.4	0.0	
Chemicals	Styrene	OMP building in NW of EB - west	91.3	91.3	0.0	
Chemicals	Styrene	Bottem of HS 103	91.5	91.5	0.0	
Chemicals	Styrene	Bottem of HS 105	97.0	97.0	0.0	
Chemicals	Styrene	FT1007	103.1	103.1	0.0	
Chemicals	Styrene	FT1118	94.0	94.0	0.0	
Chemicals	Styrene	FV1005	102.5	102.5	0.0	
Chemicals	Styrene	FV1006	105.0	105.0	0.0	
Chemicals	Styrene	FV1017	107.9	107.9	0.0	
Chemicals	Styrene	FV1018	105.9	105.9	0.0	
Chemicals	Styrene	GZ348CPA1P	102.4	102.4	0.0	
Chemicals	Styrene	HS 102 East side	105.8			
Chemicals	Styrene	HS 102 North side	106.4			Removed - Regen
Chemicals	Styrene	HS 102 South side	106.4			heater, HS 102 used for startup/shutdown only
Chemicals	Styrene	HS 102 West side	105.8			startup/shutuown only
Chemicals	Styrene	MOV3S	99.5	99.5	0.0	
Chemicals	Styrene	MOV5S	100.0	100.0	0.0	
Chemicals	Styrene	MOV7S	99.1	99.1	0.0	
Chemicals	Styrene	PP103A 1M	101.8	101.8	0.0	
Chemicals	Styrene	PP103B 1M	102.4	102.4	0.0	
Chemicals	Styrene	PP109A 1M	100.0	100.0	0.0	
Chemicals	Styrene	PP110A	98.3	98.3	0.0	
Chemicals	Styrene	PP112S	104.5	104.5	0.0	
Chemicals	Styrene	PP114S	100.0	100.0	0.0	
Chemicals	Styrene	PP141S 1M	99.9	99.9	0.0	
Chemicals	Styrene	PP145A	99.4	99.4	0.0	
Chemicals	Styrene	PP147B	98.0	98.0	0.0	
Chemicals	Styrene	PP148A	98.7	98.7	0.0	
Chemicals	Styrene	PP151S	97.7	97.7	0.0	
Chemicals	Styrene	PP215S	104.0	104.0	0.0	
Chemicals	Styrene	PP370S	100.6	100.6	0.0	
Chemicals	Styrene	PP387S	102.9	102.9	0.0	
Chemicals	Styrene	PT1010	95.9	95.9	0.0	
Chemicals	Styrene	TV 1002	91.5	91.5	0.0	

			Sound	Power Level (d	IBA)	
Site	Unit	Tag/Description	2015 Update	Addendum	Change	Remarks
						Removed - Regen
						heater, HS 102 used for
Chemicals	Styrene	HS-101 stack outlet	78.0			startup/shutdown only
Chemicals	Styrene	HS-103 stack outlet	80.3	80.3	0.0	
Chemicals	Styrene	HS-219 stack outlet	64.2	64.2	0.0	
Chemicals	Styrene	HS-219 North face	106.4	101.0	-5.4	Updated
Chemicals	Styrene	HS-219 South face	106.4	101.0	-5.4	Updated
Chemicals	Styrene	HS-219 West face	104.7	99.2	-5.5	Updated
Chemicals	Styrene	HS 219 Base		107.5		Added
Chemicals	Styrene	Pipe FURN MR201BASE	103.9	103.9	0.0	
Chemicals	Styrene	Pipe FURN MR201C BASE	97.8	97.8	0.0	
Chemicals	Styrene	Pipe FV2003 LINE	104.4	104.4	0.0	
Chemicals	Styrene	Pipe FV2019	90.7	90.7	0.0	
Chemicals	Styrene	Pipe MR 201D Base	100.1	100.1	0.0	
Chemicals	Styrene	Pipe under toilet paper role in	83.1	83.1	0.0	
Chemicals	Styrene	Styrene CWR pipe	100.8	100.8	0.0	
Chemicals	Styrene	Tanks PP416A VV & 6M PIPE	99.9	99.9	0.0	
Chemicals	Styrene	Steam Mixer GA-224	98.6	98.6	0.0	
Chemicals	Styrene	FF2019 V	98.7	98.7	0.0	
Chemicals	Styrene	FV 7003	107.6	107.6	0.0	
Chemicals	Styrene	GZ 348E	104.4	104.4	0.0	
Chemicals	Styrene	LV 2001	104.0	104.0	0.0	
Chemicals	Styrene	P202S B	98.5	98.5	0.0	
Chemicals	Styrene	p203A	99.0	99.0	0.0	
Chemicals	Styrene	P204A M	99.1	99.1	0.0	
Chemicals	Styrene	P205S M	105.7	105.7	0.0	
Chemicals	Styrene	P206S M	98.1	98.1	0.0	
Chemicals	Styrene	P208S M	93.8	93.8	0.0	
Chemicals	Styrene	P209S M	99.3	99.3	0.0	
Chemicals	Styrene	P210A M	98.2	98.2	0.0	
Chemicals	Styrene	P220A M	100.8	100.8	0.0	
Chemicals	Styrene	P224S M	97.3	97.3	0.0	
Chemicals	Styrene	P231A M	95.4	95.4	0.0	
Chemicals	Styrene	P242A M	99.0	99.0	0.0	
Chemicals	Styrene	P243A M	91.6	91.6	0.0	

			Sound	Power Level (d	BA)	
Site	Unit	Tag/Description	2015 Update	Addendum	Change	Remarks
Chemicals	Styrene	P244S M	99.3	99.3	0.0	
Chemicals	Styrene	P281A M	100.0	100.0	0.0	
Chemicals	Styrene	P282A M	100.7	100.7	0.0	
Chemicals	Styrene	PD211S M	97.2	97.2	0.0	
Chemicals	Styrene	Tanks GZ348H	104.6	104.6	0.0	
Chemicals	Styrene	Tanks PP402A	95.4	95.4	0.0	
Chemicals	Styrene	Tanks PP416A	104.2	104.2	0.0	
Chemicals	Styrene	Tanks PP417A	98.9	98.9	0.0	
Chemicals	Styrene	Tanks PP418S	97.8	97.8	0.0	
Chemicals	MEG	MEG Compressor Discharge after PVD-32011	111.0	111.0	0.0	
Chemicals	MEG	MEG Compressor Discharge before PVD-32011	81.0	81.0	0.0	
Chemicals	MEG	MEG Compressor Suction	107.8	107.8	0.0	
Chemicals	MEG	MEG pipe "A"	109.5	109.5	0.0	
Chemicals	MEG	MEG Pipe BY 3201	110.4	110.4	0.0	
Chemicals	MEG	MEG pipe from TT3101	110.6	110.6	0.0	
Chemicals	MEG	MEG pipe FV-32021	97.6	97.6	0.0	
Chemicals	MEG	MEG pipe PY-3401-T1 CONDEN	108.4	108.4	0.0	
Chemicals	MEG	MEG PIPE SH2800 TO AS3401 CONCEN	95.8	95.8	0.0	
Chemicals	MEG	MEG PP-3217A PIPE	103.7	103.7	0.0	
Chemicals	MEG	MEG PP-3401S PIPE	96.4	96.4	0.0	
Chemicals	MEG	MEG CO2 Vent	99.9	99.9	0.0	
Chemicals	MEG	Aerial Cooler Fan E 3203A-1		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3203A-2		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3203B-1		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3203B-2		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3206A-1		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3206A-2		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3206B-1		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3206B-2		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3206C-1		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3206C-2		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3206D-1		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3206D-2		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3209A-1		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3209A-2		107.3		Added

			Sound	Power Level (d	IBA)	
Site	Unit	Tag/Description	2015 Update	Addendum	Change	Remarks
Chemicals	MEG	Aerial Cooler Fan E 3209B-1		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3209B-2		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3209C-1		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3209C-2		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3209D-1		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3209D-2		107.3		Added
Chemicals	MEG	Aerial Cooler Fan E 3209E-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3209E-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3209F-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3209F-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3209G-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3209G-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3209H-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3209H-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3209I-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3209I-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3209J-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3209J-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3213-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3213-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3301A-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3301A-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3301B-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3301B-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3301C-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3301C-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3410A-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3410A-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3410B-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3410B-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3410C-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3410C-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3410D-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3410D-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3410E-1	87.2	107.3	20.1	Updated

			Sound	Power Level (d	BA)	
Site	Unit	Tag/Description	2015 Update	Addendum	Change	Remarks
Chemicals	MEG	Aerial Cooler Fan E 3410E-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3410F-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3410F-2	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3504-1	87.2	107.3	20.1	Updated
Chemicals	MEG	Aerial Cooler Fan E 3504-2	87.2	107.3	20.1	Updated
Chemicals	MEG	MEG compressor Bldg - E wall	88.8	88.8	0.0	
Chemicals	MEG	MEG compressor Bldg - N louvers	101.9	101.9	0.0	
Chemicals	MEG	MEG compressor Bldg - N wall	88.5	88.5	0.0	
Chemicals	MEG	MEG compressor Bldg - S louvers	93.4	93.4	0.0	
Chemicals	MEG	MEG compressor Bldg - S louvers	92.1	92.1	0.0	
Chemicals	MEG	MEG compressor Bldg - S wall	88.8	88.8	0.0	
Chemicals	MEG	MEG compressor Bldg - W louvers	97.3	97.3	0.0	
Chemicals	MEG	MEG compressor Bldg - W wall	88.7	88.7	0.0	
Chemicals	MEG	MEG Vessel TT3406 east face	99.3	99.3	0.0	
Chemicals	MEG	MEG Vessel TT3406 north face	97.9	97.9	0.0	
Chemicals	MEG	MEG Vessel TT3406 south face	100.3	100.3	0.0	
Chemicals	MEG	MEG Vessel TT3406 west face	99.3	99.3	0.0	
Chemicals	MEG	MEG Vessel TT3503A Roof	94.3	94.3	0.0	
Chemicals	MEG	MEG Vessel TT3503A	97.1	97.1	0.0	
Chemicals	MEG	MEG Vessel TT3503A	96.3	87.9	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503A	99.3	90.9	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503A	97.4	89.0	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503A	95.8	87.4	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503A	99.3	90.9	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503A	96.0	87.6	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503A	97.6	89.2	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503B	96.3	87.9	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503B	100.0	91.6	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503B	98.7	90.3	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503B	99.5	91.1	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503B	98.4	90.0	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503B	98.2	89.8	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503B	98.7	90.3	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503B	99.8	91.4	-8.4	Updated
Chemicals	MEG	MEG Vessel TT3503B Roof	96.7	96.7	0.0	

			Sound	Power Level (d	BA)	
Site	Unit	Tag/Description	2015 Update	Addendum	Change	Remarks
Chemicals	MEG	TT 3101 Vessel1	101.1	101.1	0.0	
Chemicals	MEG	TT 3101 Vessel2	100.5	100.5	0.0	
Chemicals	MEG	TT 3101 Vessel3	100.0	100.0	0.0	
Chemicals	MEG	TT 3101 Vessel4	100.5	100.5	0.0	
Chemicals	MEG	TT 3101 Vessel5	100.2	100.2	0.0	
Chemicals	MEG	TT 3101 Vessel6	101.1	101.1	0.0	
Chemicals	MEG	TT 3101 Vessel7	100.9	100.9	0.0	
Chemicals	MEG	TT 3101 Vessel8	101.5	101.5	0.0	
Chemicals	MEG	MEG PP-3205A piping	97.0	97.0	0.0	
Chemicals	MEG	MEG PP-3205S	105.7	105.7	0.0	
Chemicals	MEG	MEG PP-3301S M	97.0	97.0	0.0	
Chemicals	MEG	MEG TT3408AR vessel discharge	97.0	97.0	0.0	
Chemicals	MEG	MEG FV-34049 VALVE	95.6	95.6	0.0	
Chemicals	MEG	MEG FV-35003 V	99.2	99.2	0.0	
						Oberved to be
Chemicals	MEG	MEG FV-35011 VALVE	106.1			Insinificant
						Oberved to be
Chemicals	MEG	MEG FV-35032 V	106.8			Insinificant
Chemicals	MEG	MEG FV32001	102.3	102.3	0.0	
Chemicals	MEG	MEG FV34010	102.2	102.2	0.0	
Chemicals	MEG	MEG GFV34043	104.0	104.0	0.0	
Observiseds			407.4			Oberved to be
Chemicals	MEG	MEG LV34006A	107.4			Insinificant
Chemicals	MEG	MEG PP-3101A M	100.5	100.5	0.0	
Chemicals	MEG	MEG PP-3101B M	99.0	99.0	0.0	
Chemicals	MEG	MEG PP-3201A M	103.0	103.0	0.0	
Chemicals	MEG	MEG PP-3203S M	98.5	98.5	0.0	
Chemicals	MEG	MEG PP-3204B M	100.1	100.1	0.0	
Chemicals	MEG	MEG PP-3208S M	92.4	92.4	0.0	
Chemicals	MEG	MEG PP-3214A M	100.4	100.4	0.0	
Chemicals	MEG	MEG PP-3217A M	102.7	102.7	0.0	
Chemicals	MEG	MEG PP-3303S M	94.9	94.9	0.0	
Chemicals	MEG	MEG PP-3304A M	97.6	97.6	0.0	
Chemicals	MEG	MEG PP-3401S M	100.4	100.4	0.0	
Chemicals	MEG	MEG PP-3402A M	99.4	99.4	0.0	
Chemicals	MEG	MEG PP-3403A M	96.5	96.5	0.0	

			Sound	Power Level (d	IBA)	
Site	Unit	Tag/Description	2015 Update	Addendum	Change	Remarks
Chemicals	MEG	MEG PP-3404S M	95.0	95.0	0.0	
Chemicals	MEG	MEG PP-3405S M	93.1	93.1	0.0	
Chemicals	MEG	MEG PP-3406A M	100.5	100.5	0.0	
Chemicals	MEG	MEG PP-3407A M	92.6	92.6	0.0	
Chemicals	MEG	MEG PP-3408S M	95.5	95.5	0.0	
Chemicals	MEG	MEG PP-3502A M	94.8	94.8	0.0	
Chemicals	MEG	MEG PP-3503S M	96.7	96.7	0.0	
Chemicals	MEG	MEG PP-3505S M	94.9	94.9	0.0	
Chemicals	MEG	MEG PP-3506A M	97.9	97.9	0.0	
Chemicals	MEG	MEG PP-3507A M	99.6	99.6	0.0	
Chemicals	MEG	MEG PP-3508A M	93.5	93.5	0.0	
Chemicals	MEG	MEG PP-3509S M	99.9	99.9	0.0	
Chemicals	MEG	MEG PP-3510S M	99.1	99.1	0.0	
Chemicals	MEG	MEG PP-3513S M	99.6	99.6	0.0	
Chemicals	MEG	MEG PV-32001A V	97.5	97.5	0.0	
Chemicals	MEG	MEG SH-2800 piping	92.1	92.1	0.0	
						Oberved to be
Chemicals	MEG	MEG SL 30019 line (pt src)	103.9			Insinificant
Chemicals	MEG	MEG UV-35001 V	100.8	100.8	0.0	
Chemicals	MEG	MEG VALVE ON TT3408AR	102.3	102.3	0.0	
Chemicals	MEG	PP3001A	98.3	98.3	0.0	
Chemicals	MEG	O2 blower bldg S door	98.0	98.0	0.0	
Chemicals	MEG	O2 blower bldg W door	100.7	100.7	0.0	
Chemicals	MEG	pipe SH-2800 desuperheater	92.9	92.9	0.0	
Chemicals	MEG	pipes near AS-3203	106.7	106.7	0.0	
Chemicals	MEG	PY-3401 Eductor	106.6	107.2	0.6	Updated
Chemicals	MEG	O2 mixbox inlet	95.7	95.7	0.0	
Chemicals	MEG	O2 mixbox outlet	105.7	105.7	0.0	
Chemicals	MEG	piping RCG to TT-3101	95.5	95.5	0.0	
Chemicals	MEG	TT3101 piping	101.2	101.2	0.0	
Chemicals	MEG	TT3101 piping	97.0	97.0	0.0	
Chemicals	MEG	TT3101 piping	98.6	98.6	0.0	
Chemicals	MEG	PT-32003	115.9	115.9	0.0	
Chemicals	MEG	Comp. Disch. Ball valve	96.0	96.0	0.0	
Chemicals	MEG	TT-3506 vessel top	108.7	108.7	0.0	

			Sound	Power Level (d	BA)	
Site	Unit	Tag/Description	2015 Update	Addendum	Change	Remarks
Chemicals	Utilities	Center boiler intake VFD	108.2	108.2	0.0	
Chemicals	Utilities	centre boiler FD fan casing	96.6	96.6	0.0	
Chemicals	Utilities	HB-301C stack outlet	94.1	94.1	0.0	
Chemicals	Utilities	north boiler FD fan casing	96.6	96.6	0.0	
Chemicals	Utilities	North boiler intake VFD	101.7	101.7	0.0	
Chemicals	Utilities	south boiler FD fan casing	96.6	96.6	0.0	
Chemicals	Utilities	South boiler intake VFD	102.5	102.5	0.0	
Chemicals	Utilities	Utilities Boiler Air Intake (mid	98.0	98.0	0.0	
Chemicals	Utilities	Utilities Boiler Air Intake (Nor	103.4	103.4	0.0	
Chemicals	Utilities	Utilities Boiler Air Intake (Sou	103.7	103.7	0.0	
Chemicals	Utilities	Utilities Flare Blower	101.9	101.9	0.0	
Chemicals	Utilities	HB-301A stack outlet	94.1	94.1	0.0	
Chemicals	Utilities	HB-301B stack outlet	94.1	94.1	0.0	
Chemicals	Utilities	Pipe BEFORE MP-LP LETDOWN	97.3	97.3	0.0	
Chemicals	Utilities	Pipe LP EXST STM RECYKLE	96.9	96.9	0.0	
Chemicals	Utilities	Pipe LP STEAM EXAUET	102.4	102.4	0.0	
Chemicals	Utilities	Pipe LP STM HEADER	104.5	104.5	0.0	
Chemicals	Utilities	Utilities HP STM VALVE	89.2	89.2	0.0	
Chemicals	Utilities	Utilities De-airator vent	111.3	111.3	0.0	
Chemicals	Utilities	Cooling Tower fan #1 (1-8 W-E)	102.8	102.8	0.0	
Chemicals	Utilities	Cooling Tower fan #2 (1-8 W-E)	102.8	102.8	0.0	
Chemicals	Utilities	Cooling Tower fan #3 (1-8 W-E)	102.8	102.8	0.0	
Chemicals	Utilities	Cooling Tower fan #4 (1-8 W-E)	102.8	102.8	0.0	
Chemicals	Utilities	Cooling Tower fan #5 (1-8 W-E)	102.8	102.8	0.0	
Chemicals	Utilities	Cooling Tower fan #6 (1-8 W-E)	102.8	102.8	0.0	
Chemicals	Utilities	Cooling Tower fan #7 (1-8 W-E)	102.8	102.8	0.0	
Chemicals	Utilities	Cooling Tower fan #8 (1-8 W-E)	102.8	102.8	0.0	
Chemicals	Utilities	Utilities Cooling Tower North Sp	108.4	108.4	0.0	
Chemicals	Utilities	Utilities Cooling Tower South Sp	108.4	108.4	0.0	
Chemicals	Utilities	Main Utilites Building	110.4	110.4	0.0	
Chemicals	Utilities	Main Utilites Building	94.4	94.4	0.0	
Chemicals	Utilities	Main Utilites Building	83.2	83.2	0.0	
Chemicals	Utilities	Main Utilites Building	89.6	89.6	0.0	
Chemicals	Utilities	Main Utilites Building	88.7	88.7	0.0	
Chemicals	Utilities	Main Utilites Building	92.7	92.7	0.0	

			Sound Power Level (dBA)		BA)	
Site	Unit	Tag/Description	2015 Update	Addendum	Change	Remarks
Chemicals	Utilities	Main Utilites Building Roof	98.5	98.5	0.0	
Chemicals	Utilities	Utilities LP Steam Header	116.0	105.9	-10.1	Updated
Chemicals	Utilities	centre boiler FD duct	97.9	97.9	0.0	
Chemicals	Utilities	north boiler FD duct	97.9	97.9	0.0	
Chemicals	Utilities	south boiler FD duct	97.9	97.9	0.0	
Totals						
Chemicals	Styrene		120.8	119.9	-0.8	
Chemicals	MEG		123.2	126.7	3.5	
Chemicals	Utilities		120.8	119.3	-1.5	
Chemicals	All Units		126.5	128.2	1.6	

APPENDIX B Model Validation Tables and Figures

Shell Canada Ltd. Shell Scotford Refinery, Upgrader, and Chemicals Plants Addendum to the 2015 Shell Scotford Noise Model Update SLR Project No.: 203.50049.00004

Table B-1

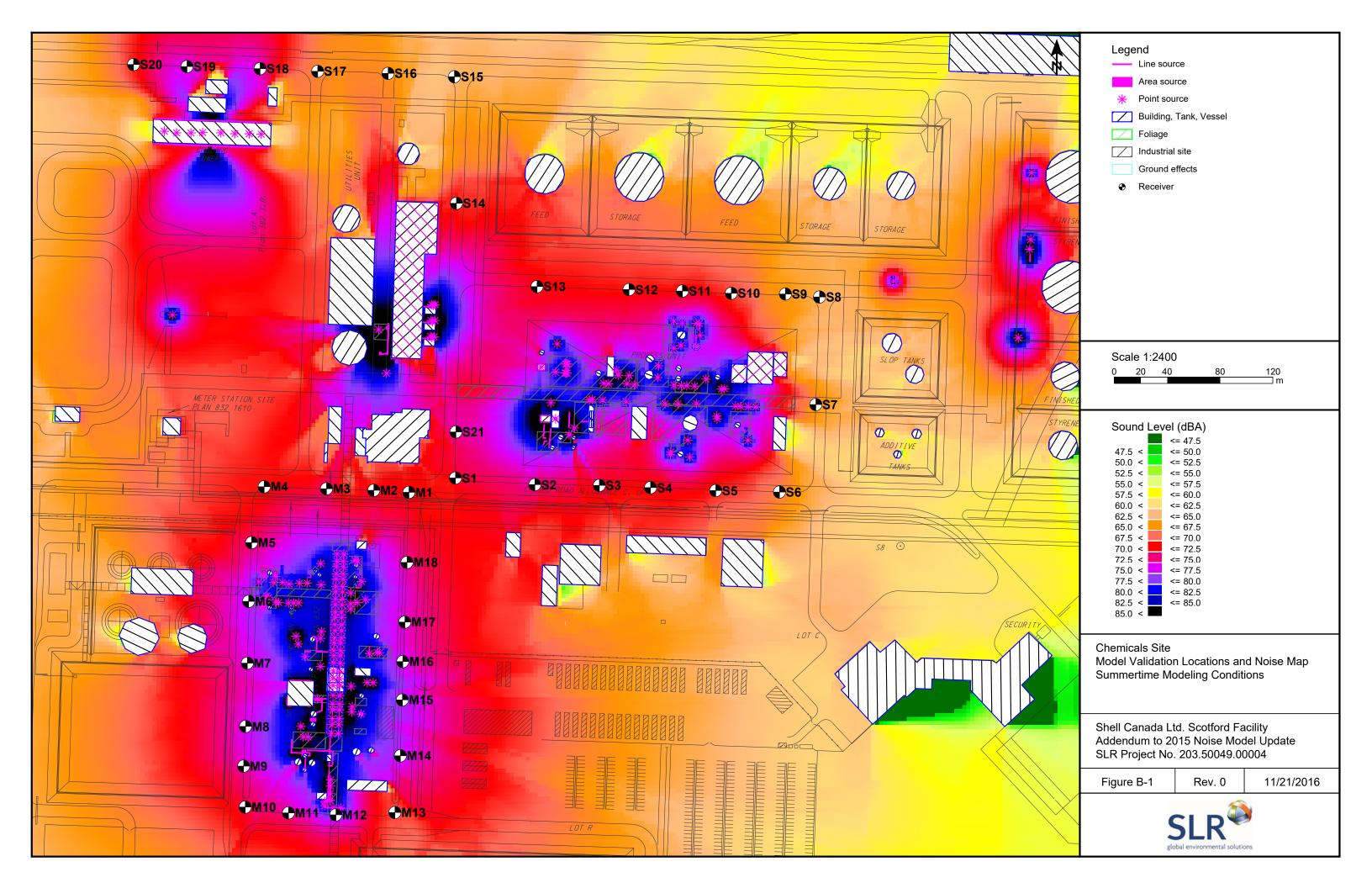
Model Validation Shell Scotford Chemicals Summertime Conditions

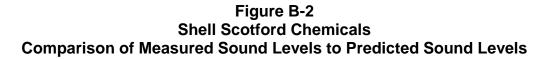
			Sound	Pressure Le	vel (dBA)	
		Location				
Site	Unit	Designation	Measured	Predicted	Difference	Remarks
Chemicals	MEG	M1	68.5	70.4	+1.3	August 2016 measurement
Chemicals	MEG	M2	68.5	69.9	+0.8	August 2016 measurement
Chemicals	MEG	M3	69.9	72.1	+1.4	August 2016 measurement
Chemicals	MEG	M4	67.9	69.7	+1.3	August 2016 measurement
Chemicals	MEG	M5	70.6	72.4	+1.4	August 2016 measurement
Chemicals	MEG	M6	75.9	75.7	-0.7	August 2016 measurement
Chemicals	MEG	M7	76.1	74.5	-2.2	August 2016 measurement
Chemicals	MEG	M8	74.2	74.9	+0.4	August 2016 measurement
Chemicals	MEG	M9	70.9	73.5	+2.2	August 2016 measurement
Chemicals	MEG	M10	69.6	71.1	+1	August 2016 measurement
Chemicals	MEG	M11	71.6	72.9	+0.7	August 2016 measurement
Chemicals	MEG	M12	78.0	77.7	-0.8	August 2016 measurement
Chemicals	MEG	M13	68.8	68.5	-1.5	August 2016 measurement
Chemicals	MEG	M14	73.7	75.7	+1.7	August 2016 measurement
Chemicals	MEG	M15	74.6	76.6	+1.5	August 2016 measurement
Chemicals	MEG	M16	73.0	75.0	+1.3	August 2016 measurement
Chemicals	MEG	M17	72.4	74.1	+1.2	August 2016 measurement
Chemicals	MEG	M18	71.8	73.4	+1.2	August 2016 measurement
Chemicals	Styrene	S1	68.0	70.0	+2	December 2014 measurement
Chemicals	Styrene	S2	72.6	71.7	-0.9	December 2014 measurement
Chemicals	Styrene	S3	72.6	70.5	-2.1	December 2014 measurement
Chemicals	Styrene	S4	70.0	68.7	-1.3	December 2014 measurement
Chemicals	Styrene	S5	69.5	67.9	-1.6	December 2014 measurement
Chemicals	Styrene	S6	65.3	64.5	-0.8	December 2014 measurement
Chemicals	Styrene	S7	64.9	64.1	-0.8	December 2014 measurement
Chemicals	Styrene	S8	61.1	61.5	+0.4	December 2014 measurement
Chemicals	Styrene	S9	62.1	63.5	+1.4	December 2014 measurement
Chemicals	Styrene	S10	65.2	67.3	+2.1	December 2014 measurement
Chemicals	Styrene	S11	66.7	69.2	+2.6	December 2014 measurement
Chemicals	Styrene	S12	67.8	68.7	+0.9	December 2014 measurement

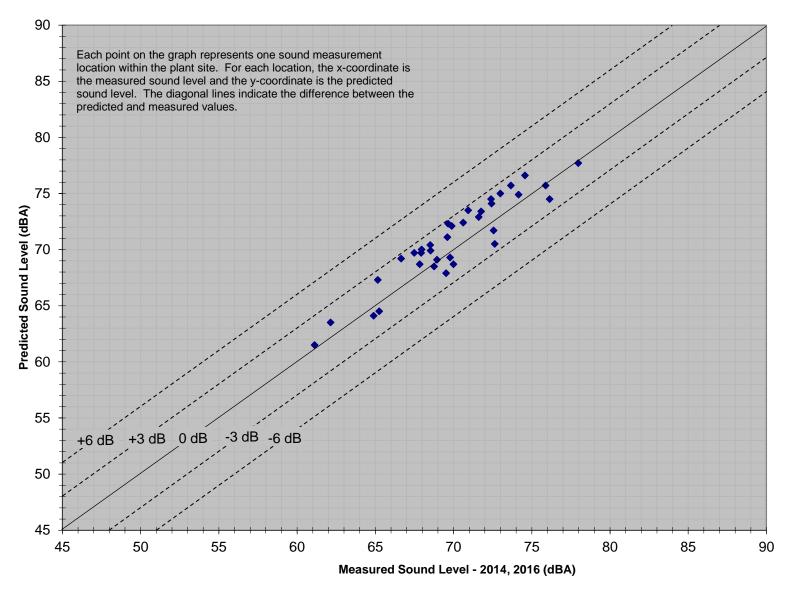
Table B-1

Model Validation Shell Scotford Chemicals Summertime Conditions

			Sound Pressure Level (dBA)		vel (dBA)	
		Location				
Site	Unit	Designation	Measured	Predicted	Difference	Remarks
Chemicals	Styrene	S13	67.5	69.7	+2.2	December 2014 measurement
Chemicals	Styrene	614 -venting nearb	68.9	69.1	+0.2	December 2014 measurement
Chemicals	Styrene	615 -venting nearb	75.3	62.1	N/A	Steam leak in measurement (December 2014)
Chemicals	Styrene	616 -venting nearb	83.8	64.6	N/A	Steam leak in measurement (December 2014)
Chemicals	Styrene	617 -venting nearb	82.4	66.1	N/A	Steam leak in measurement (December 2014)
Chemicals	Styrene	S18	81.8	73.7	N/A	Steam leak in measurement (December 2014)
Chemicals	Styrene	S19	72.4	74.5	+2.1	December 2014 measurement
Chemicals	Styrene	S20	69.8	69.3	-0.5	December 2014 measurement
Chemicals	Styrene	S21	69.7	72.3	+2.6	December 2014 measurement
				Average	+0.9	

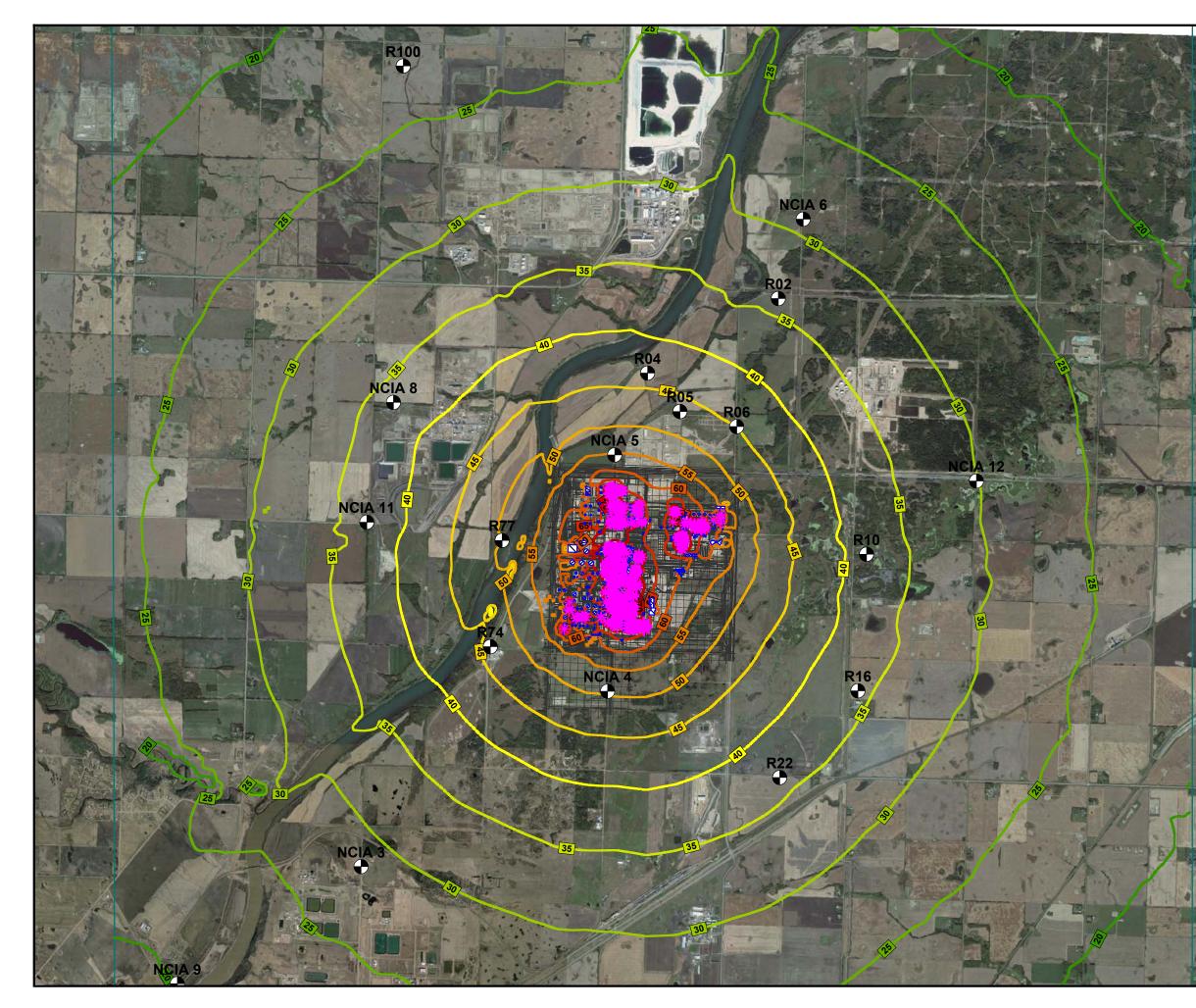


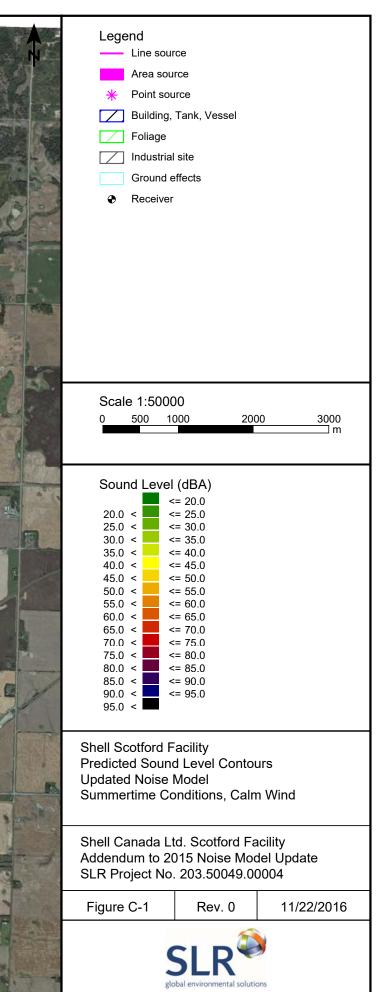




APPENDIX C Environmental Noise Contour Figures

Shell Canada Ltd. Shell Scotford Refinery, Upgrader, and Chemicals Plants Addendum to the 2015 Shell Scotford Noise Model Update SLR Project No.: 203.50049.00004





APPENDIX D Order-Ranked Lists

Shell Canada Ltd. Shell Scotford Refinery, Upgrader, and Chemicals Plants Addendum to the 2015 Shell Scotford Noise Model Update SLR Project No.: 203.50049.00004

Order-ranked lists are provided in Tables E-1 through E-4, corresponding to Receptors R04, R10, NCIA 4, and NCIA 11 respectively.

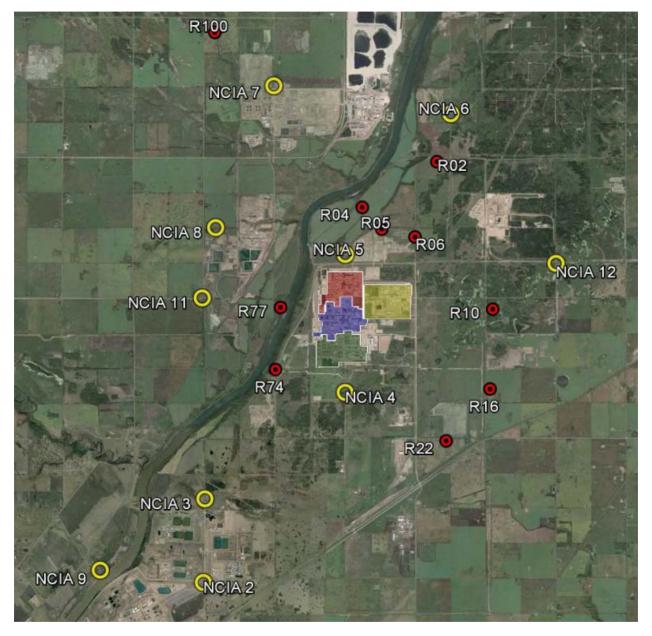


Figure D-1 Shell Scotford Noise Receptor Locations.

Order-Ranked Sound Level Contributions at Receptor R04 Shell Canada Ltd. - Scotford Summertime Conditions, Calm Wind

Order			Equipment Noise Source	Sound Pressure
Rank #	Site	Unit	Description or Tag	Level (dBA)
1	Base Upgrader	A&V	A&V I-21103B Stg1 Disch 42in Pip	37.0
2	Base Upgrader	A&V	A&V I-21103A Stg1 Disch 42in Pip	36.3
3	Chemicals	Utilities	SHut-38_Utilities Cooling Tower North S	28.3
4	Refinery	Unit 61	Flare	26.0
5	Base Upgrader	A&V	A&V I-21103B	25.1
6	Chemicals	Utilities	SHut-21_Utilities De-airator vent	24.5
7	Expansion Upgrader	A&V	A&V E-41124 (1st stage condenser	24.4
8	Expansion Upgrader	RHC	RHC Feed Mixing Deck	23.9
9	Base Upgrader	CTWR	CTWR Cooling Tower E Splash	23.3
10	Expansion Upgrader	HMU	HMU S-44103	23.2
11	Expansion Upgrader	A&V	A&V E-41125 (2nd stage condenser	23.2
12	Expansion Upgrader	RHC	RHC P-42601B	23.1
13	Expansion Upgrader	A&V	A&V Pipe support from I-41102A	22.1
14	Base Upgrader	COGEN	CGN HRSG Stack	22.1
15	Base Upgrader	SRU	SRU Incin Stack Outlet	22.0
16	Expansion Upgrader	A&V	A&V P-41106A	21.4
17	Base Upgrader	A&V	A&V I-21104A Stg2 Disch 18in Pip	20.7
18	Base Upgrader	RHC	RHC PSA V-22783	20.6
19	Chemicals	Styrene	HS 219 Styrene Furnace Base	20.5
20	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	19.8
21	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	19.8
22	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	19.8
23	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	19.8
24	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	19.8
25	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	19.8
26	Expansion Upgrader	A&V	A&V set 40943	19.5
27	Expansion Upgrader	A&V	A&V set 40912	19.0
28	Expansion Upgrader	A&V	A&V set 40943	19.0
29	Base Upgrader	A&V	A&V I-21104B Stg2 Disch 18in Pip	18.9
30	Base Upgrader	A&V	A&V I-21104B Stg2 Disch Pipe Sup	18.9
31	Expansion Upgrader	SRC	SRC V-41706 E (Incinerator)	18.8
32	Expansion Upgrader	HMU	HMU PSA Header	18.8
33	Expansion Upgrader	SRC	SRC S-41705 Incinerator stack ou	18.6
34	Base Upgrader	A&V	A&V I-21105 Stg3 Disch 12in Pipe	18.6
35	Chemicals	Utilities	SHut-37_Cooling Tower fan #1 (1-8 W-E	18.6
36	Chemicals	Styrene	Tanks PP416A	18.6
37	Chemicals	Utilities	SHut-37_Cooling Tower fan #2 (1-8 W-E	18.6
38	Chemicals	Utilities	SHut-37_Cooling Tower fan #3 (1-8 W-	18.5
39	Base Upgrader	A&V	A&V I-21104A Stg2 Disch Pipe Sup	18.5
40	Chemicals	Utilities	SHut-37_Cooling Tower fan #4 (1-8 W-	18.5
41	Chemicals	Utilities	SHut-37_Cooling Tower fan #5 (1-8 W-	18.5
42	Chemicals	Utilities	SHut-37_Cooling Tower fan #6 (1-8 W-	18.5
43	Chemicals	Utilities	SHut-37_Cooling Tower fan #7 (1-8 W-	18.5
44	Chemicals	Utilities	SHut-37_Cooling Tower fan #8 (1-8 W-	18.4
45	Base Upgrader	COGEN	CGN N-S Pipe Rack	18.3

Order-Ranked Sound Level Contributions at Receptor R04 Shell Canada Ltd. - Scotford Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
46	Chemicals	Styrene	FV1018	18.2
47	Expansion Upgrader	CTWR	CTWR mtr 54201A	18.0
48	Refinery	Unit 22	Unit 22 Common H Comp E Opening	17.9
49	Expansion Upgrader	CTWR	CTWR mtr54201B	17.8
50	Expansion Upgrader	CTWR	CTWR mtr54201C	17.8
51	Expansion Upgrader	CTWR	CTWR mtr54201D	17.8
52	Expansion Upgrader	RHC	RHC FV-461901	17.4
53	Expansion Upgrader	A&V	A&V I-41103A (3rd stage ejector)	17.4
54	Expansion Upgrader	RHC	RHC Membrane RVS Deck	17.3
55	Expansion Upgrader	RHC	RHC West Mixing Deck	17.2
56	Base Upgrader	HMU	HMU S-24203 Stack Outlet	17.2
57	Base Upgrader	RHC	RHC PSA V-22883	17.1
58	Base Upgrader	HMU	HMU S-24103 Stack Outlet	16.9
59	Expansion Upgrader	A&V	A&V P-41112B	16.7
60	Refinery	Unit 31/32	Unit 30 Comp Bldg N Opening	16.6
61	Expansion Upgrader	A&V	A&V FV-411217	16.6
62	Base Upgrader	COGEN	CGN Deair Stm E Vent 1	16.6
63	Base Upgrader	COGEN	CGN Deair Stm W Vent 1	16.6
64	Refinery	Unit 25	E 2509-A1	16.1
65	Expansion Upgrader	RHC	RHC BBQ Deck	16.1
66	Expansion Upgrader	RHC	RHC Structure H	16.1
67	Chemicals	Styrene	P205S M	16.1
68	Expansion Upgrader	Á&V	A&V C-41111 (FD fan)	16.0
69	Base Upgrader	COGEN	CGN Rect Roof Fan 1	15.7
70	Chemicals	Utilities	SHut-10_Utilities Flare Blower	15.7
71	Expansion Upgrader	A&V	A&V support 41009	15.5
72	Base Upgrader	HMU	HMU PSA V-24411	15.4
73	Refinery	Unit 24	E2416-2	15.3
74	Base Upgrader	COGEN	CGN Turb Bldg E Wall	15.2
75	Expansion Upgrader	CTWR	CTWR 54201A	15.1
76	Refinery	Unit 21	H2101 heater wall	15.1
77	Base Upgrader	SRU	SRU PM-21307	15.1
78	Refinery	Unit 24	E2416-1	15.1
79	Chemicals	MEG	MEG CO2 Vent	15.1
80	Base Upgrader	COGEN	CGN E-W Pipe Rack	15.0
81	Expansion Upgrader	A&V	A&V S-41106 (Vac exhaust stack)	15.0
82	Base Upgrader	COGEN	CGN Turb Bldg N Wall	14.9
83	Chemicals	MEG	MEG Compressor Suction	14.8
84	Chemicals	Styrene	FT1007	14.8
85	Base Upgrader	SRU	SRU C-21702 Incin FD Fan Inlet	14.8
86	Refinery	Unit 21	Unit 21 Deaerator	14.6
87	Base Upgrader	COGEN	CGN Rect Roof Fan 2	14.6
88	Base Upgrader	COGEN	CGN Rect Roof Fan 3	14.6
89	Base Upgrader	HMU	HMU PSA V-24411	14.6
90	Expansion Upgrader	RHC	RHC R-421001 Equip Door	14.6

Order-Ranked Sound Level Contributions at Receptor R04 Shell Canada Ltd. - Scotford Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
91	Refinery	Unit 25	C2501 - compressor building N op	14.5
92	Base Upgrader	HMU	HMU C-24201 Air Inlet	14.5
93	Expansion Upgrader	A&V	A&V P-41189A	14.4
94	Expansion Upgrader	HMU	HMU H-44101 E (Heat Columns)	14.4
95	Expansion Upgrader	CTWR	CTWR 54201B	14.3
96	Expansion Upgrader	A&V	A&V S-41107 (Atmos exhaust stack	14.3
97	Base Upgrader	RHC	RHC FV-224008	14.3
98	Expansion Upgrader	CTWR	CTWR 54201C	14.3
99	Expansion Upgrader	CTWR	CTWR 54201D	14.2
100	Expansion Upgrader	HMU	HMU H-44101 E (Heat Columns)	14.2
	42.4			
	35.8			
	43.3			

Order-Ranked Sound Level Contributions at Receptor R10 Shell Canada Ltd. - Scotford Summertime Conditions, Calm Wind

Order			Equipment Noise Source	Sound Pressure
Rank #	Site	Unit	Description or Tag	Level (dBA)
1	Base Upgrader	A&V	A&V I-21103A Stg1 Disch 42in Pip	30.4
2	Chemicals	MEG	PT-32003	26.1
3	Chemicals	MEG	MEG Compressor Discharge after	23.0
4	Expansion Upgrader	RHC	RHC R-421001 South Wall	22.8
5	Chemicals	Utilities	SHut-21_Utilities De-airator vent	21.8
6	Refinery	Unit 61	Flare	21.8
7	Base Upgrader	COGEN	CGN HRSG Stack	19.8
8	Chemicals	MEG	TT 3101 Vessel6	19.1
9	Base Upgrader	SRU	SRU Incin Stack Outlet	18.8
10	Chemicals	MEG	MEG Compressor Suction	18.8
11	Base Upgrader	A&V	A&V I-21103A	18.7
12	Chemicals	MEG	TT 3101 Vessel4	18.5
13	Chemicals	MEG	TT 3101 Vessel5	18.3
14	Chemicals	MEG	O2 mixbox outlet	18.3
15	Chemicals	MEG	TT 3101 Vessel3	18.0
16	Chemicals	Styrene	Tanks PP416A	17.3
17	Base Upgrader	CTWR	CTWR Cooling Tower E Splash	17.0
18	Base Upgrader	A&V	A&V I-21103B Stg1 Disch 42in Pip	16.6
19	Expansion Upgrader	HMU	HMU S-44103	16.5
20	Refinery	Unit 21	C2104 fan Inlet	16.1
21	Base Upgrader	RHC	RHC PSA V-22883	15.5
22	Chemicals	Styrene	Tanks GZ348H	15.1
23	Chemicals	Utilities	SHut-37_Cooling Tower fan #8 (1-8 W-	15.0
24	Chemicals	Utilities	SHut-37_Cooling Tower fan #7 (1-8 W-	15.0
25	Expansion Upgrader	CTWR	CTWR 54201 E water splash	14.9
26	Chemicals	Utilities	SHut-37_Cooling Tower fan #6 (1-8 W-E	
27	Chemicals	Utilities	SHut-37_Cooling Tower fan #5 (1-8 W-E	14.9
28	Chemicals	Utilities	SHut-37_Cooling Tower fan #4 (1-8 W-E	14.8
29	Chemicals	Utilities	SHut-37_Cooling Tower fan #3 (1-8 W-E	14.8
30	Chemicals	Utilities	SHut-37_Cooling Tower fan #2 (1-8 W-E	14.7
31	Chemicals	MEG	TT 3101 Vessel7	14.7
32	Base Upgrader	SRU	SRU CM-21401 Degasser Motor	14.7
33	Chemicals	Utilities	SHut-37_Cooling Tower fan #1 (1-8 W-E	14.7
34	Chemicals	Utilities	SHut-38_Utilities Cooling Tower South S	14.5
35	Base Upgrader	A&V	A&V I-21104A Stg2 Disch 18in Pip	14.5
36	Chemicals	MEG	MEG CO2 Vent	14.5
37	Base Upgrader	COGEN	CGN Turb Bldg E Wall	14.4
38	Base Upgrader	HMU	HMU S-24203 Stack Outlet	14.3
39	Chemicals	MEG	MEG pipe "A" support 6	14.3
40	Base Upgrader	RHC	RHC PSA V-22783	14.2
41	Chemicals	MEG	TT3101 piping	14.0
42	Chemicals	MEG	MEG PP-3201A M	13.8
43	Base Upgrader	HMU	HMU S-24103 Stack Outlet	13.6
44	Chemicals	MEG	TT3101 piping	13.4
45	Chemicals	MEG	TT 3101 Vessel2	13.3

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Table D-2

Order-Ranked Sound Level Contributions at Receptor R10 Shell Canada Ltd. - Scotford Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
46	Refinery	Unit 20	E-2012 compressor coolant cooler	13.3
47	Chemicals	Styrene	Styrene CWR pipe	13.3
48	Refinery	Unit 31/32	Unit 30 Comp Bldg N Opening	13.1
49	Refinery	Unit 11	Fan Casing C1101	13.0
50	Refinery	Unit 31/32	Regen Blower Fan case	13.0
51	Chemicals	Styrene	P220A M	13.0
52	Chemicals	Utilities	North boiler intake VFD	12.9
53	Base Upgrader	HMU	HMU PSA V-24411	12.9
54	Base Upgrader	COGEN	CGN Deair Stm E Vent 1	12.9
55	Base Upgrader	COGEN	CGN Deair Stm W Vent 1	12.9
56	Refinery	Unit 21	C2103 Inlet	12.9
57	Chemicals	Styrene	GZ348CPA1P	12.8
58	Base Upgrader	HMU	HMU PSA V-24411	12.8
59	Base Upgrader	COGEN	CGN N-S Pipe Rack	12.8
60	Expansion Upgrader	SRC	SRC S-41705 Incinerator stack ou	12.6
61	Refinery	Unit 24	C2401 Comp Bldg N open	12.6
62	Chemicals	MEG	TT 3101 Vessel1	12.5
63	Chemicals	MEG	TT 3101 Vessel8	12.4
64	Chemicals	MEG	pipes near AS-3203	12.3
65	Base Upgrader	HMU	HMU PSA V-24411	12.3
66	Base Upgrader	HMU	HMU PSA V-24411	12.2
67	Chemicals	MEG	MEG Vessel TT3406 south face	12.2
68	Chemicals	Styrene	Tanks PP417A	12.2
69	Base Upgrader	HMU	HMU PSA V-24311	12.1
70	Chemicals	MEG	MEG PP-3204B M	12.1
71	Base Upgrader	HMU	HMU S-24301 PSA Bldg Ridge Vent	12.0
72	Chemicals	MEG	MEG pipe "A" support 5	11.9
73	Chemicals	MEG	TT3101 piping	11.9
74	Refinery	Unit 42	Unit 42 Comp Bldg N opening	11.9
75	Chemicals	Styrene	PP215S	11.8
76	Base Upgrader	HMU	HMU PSA V-24411	11.7
77	Base Upgrader	COGEN	CGN Turb Bldg N Wall	11.7
78	Refinery	Unit 21	H2101 heater wall	11.6
79	Base Upgrader	HMU	HMU PSA V-24411	11.6
80	Refinery	Unit 21	H2102 heater wall	11.6
81	Base Upgrader	HMU	HMU PSA V-24311	11.6
82	Chemicals	MEG	MEG PP-3214A M	11.6
83	Chemicals	Styrene	FT1007	11.4
84	Base Upgrader	CTWR	UPGR Cooling Water Pumphouse OH E	11.3
85	Base Upgrader	CTWR	UPGR Cooling Water Pumphouse OH	11.3
86 97	Base Upgrader	HMU	HMU PSA V-24311	11.3
87	Chemicals Base Ungrador		north boiler FD fan casing	11.3
88	Base Upgrader	CTWR	UPGR Cooling Water Pumphouse OH E	11.3
89 00	Refinery Chemicals	Unit 21	Unit 21 Deaerator	11.2
90	Unemicals	Styrene	Cmpr Bldg in NE of EB - wall sou	11.2

Order-Ranked Sound Level Contributions at Receptor R10 Shell Canada Ltd. - Scotford Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)	
91	Refinery	Unit 22	Unit 22 Common H Comp E Opening	11.2	
92	Chemicals	MEG	MEG PP-3101A M	11.1	
93	Refinery	Unit 51	Util Bldg roof NE Deairerator	11.1	
94	Refinery	Unit 24	E2416-2	11.0	
95	Refinery	Unit 24	E2416-1	11.0	
96	Expansion Upgrader	HMU	HMU C44102 ID Fan	10.9	
97	Chemicals	Styrene	FV1006	10.8	
98	Chemicals	Styrene	P242A M	10.7	
99	Base Upgrader	RHC	RHC E-22512-2	10.7	
100	Refinery	Unit 25	C2501 - compressor building N op	10.7	
		Sum of all	noise contrubutions above (1 to 100)	36.7	
	Sum of all remaining noise sources (101 to 2151)				
	Total Sound Pressure Level 38.3				

Order-Ranked Sound Level Contributions at Receptor NCIA 4 Shell Canada Ltd. - Scotford Summertime Conditions, Calm Wind

Order			Equipment Noise Source	Sound Pressure
Rank #	Site	Unit	Description or Tag	Level (dBA)
1	Base Upgrader	A&V	A&V I-21103A Stg1 Disch 42in Pip	42.8
2	Base Upgrader	A&V	A&V I-21103B Stg1 Disch 42in Pip	41.8
3	Refinery	Unit 61	Flare	37.6
4	Refinery	Unit 31/32	Unit 30 steam vent	35.7
5	Refinery	Unit 31/32	Regen Blower Fan case	34.6
6	Refinery	Unit 61	P6303	33.1
7	Base Upgrader	A&V	A&V I-21103A	32.7
8	Refinery	Unit 51	Util Bldg roof NE Deairerator	31.9
9	Refinery	Unit 61	P6301	30.4
10	Base Upgrader	A&V	A&V I-21103B	30.3
11	Refinery	Unit 22	P2201A Motor	29.9
12	Refinery	Unit 31/32	H3251 blower fan case	29.5
13	Refinery	Unit 21	Unit 21 Deaerator	29.3
14	Base Upgrader	SRU	SRU Incin Stack Outlet	29.1
15	Expansion Upgrader	RHC	RHC R-421001 South Wall	28.8
16	Chemicals	Utilities	SHut-38_Utilities Cooling Tower South \$	28.8
17	Refinery	Unit 24	E2416-1	28.1
18	Refinery	Unit 24	E2416-2	27.8
19	Base Upgrader	RHC	RHC PSA V-22883	27.7
20	Refinery	Unit 61	P6147	27.7
21	Base Upgrader	COGEN	CGN HRSG Stack	27.7
22	Base Upgrader	A&V	A&V I-21104B Stg2 Disch 18in Pip	27.7
23	Chemicals	MEG	PT-32003	27.3
24	Base Upgrader	A&V	A&V I-21104B Stg2 Disch Pipe Sup	27.2
25	Refinery	Unit 61	P6140	27.1
26	Refinery	Unit 31/32	H3251 blower motor	27.1
27	Refinery	Unit 61	P6152	27.1
28	Base Upgrader	A&V	A&V I-21104A Stg2 Disch 18in Pip	27.0
29	Refinery	Unit 11	E1119-A1	27.0
30	Refinery	Unit 22	P2201B Motor	27.0
31	Base Upgrader	RHC	RHC Pipe 12in Lagd After HV-2236	27.0
32	Refinery	Unit 41	E4103-5	26.7
33	Base Upgrader	A&V	A&V I-21105 Stg3 Disch 12in Pipe	26.7
34	Refinery	Unit 26	Unit 26 Comp Bldg S wall Vent 2	26.6
35	Refinery	Unit 26	Unit 26 Comp Bldg S wall Vent 5	26.6
36	Refinery	Unit 11	E1122-A2	26.6
37	Refinery	Unit 26	Unit 26 Comp Bldg S wall Vent 4	26.4
38	Base Upgrader	RHC	RHC Pipe 12in Lagd After HV-2226	26.4
39	Base Upgrader	HMU	HMU S-24301 PSA Bldg Ridge Vent	26.4
40	Refinery	Unit 31/32	FV32003	26.3
41	Refinery	Unit 12	E1208-A2	26.1
42	Base Upgrader	HMU	HMU S-24401 PSA Bldg Ridge Vent	26.0
43	Refinery	Unit 11	P1106B Motor	26.0
44	Refinery	Unit 15	C1501 fan inlet	25.9
45	Refinery	Unit 41	E4103-2	25.8

Order-Ranked Sound Level Contributions at Receptor NCIA 4 Shell Canada Ltd. - Scotford Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source	Sound Pressure
46	Refinery	Unit 21	Description or Tag	25.8
40 47	•	Unit 21 Unit 21		25.8
47 48	Refinery		H2102 heater wall E1124-A2	25.8
	Refinery	Unit 11		
49 50	Base Upgrader	COGEN	CGN Deair Stm W Vent 1	25.7
50 51	Base Upgrader	COGEN RHC	CGN Deair Stm E Vent 1 RHC E-22512-2	25.7 25.7
51	Base Upgrader			25.6
52 53	Base Upgrader	HMU SRU	HMU PSA V-24311 SRU PM-21405B	25.6
	Base Upgrader			
54	Refinery	Unit 61	PS4 CV's group 1	25.5
55	Refinery	Unit 22	P2201A Gbox	25.4
56	Base Upgrader	HMU	HMU PSA V-24411	25.3
57	Refinery	Unit 22	P2201B Gbox	25.2
58	Refinery	Unit 24	E2422-1	25.1
59	Base Upgrader	SRU	SRU Blower Bldg S Mtr Cool 1	25.1
60	Refinery	Unit 31/32	Regen Blower Motor	25.1
61	Refinery	Unit 61	P6302A	25.1
62	Refinery	Unit 61	P6153	25.0
63	Base Upgrader	A&V	A&V I-21104A Stg2 Disch Pipe Sup	25.0
64	Refinery	Unit 12	E1208-C2	25.0
65	Refinery	Unit 11	E1119-A2	25.0
66	Refinery	Unit 42	H4201 A burner to S	25.0
67	Refinery	Unit 42	H4201 A burner to W	25.0
68	Base Upgrader	HMU	HMU PSA V-24311	24.8
69	Refinery	Unit 42	H4201 B burner to W	24.8
70	Refinery	Unit 12	E1208-C1	24.7
71	Refinery	Unit 11	P1107A	24.7
72	Refinery	Unit 43	P-4103B Extractor charge pump	24.6
73	Refinery	Unit 41	E4123-2	24.5
74	Refinery	Unit 41	E4103-3	24.4
75	Refinery	Unit 12	E1208-A1	24.3
76	Refinery	Unit 61	P6124A	24.3
77	Refinery	Unit 41	E4123-3	24.3
78	Refinery	Unit 51	Util Building W wall Equip door	24.3
79	Base Upgrader	HMU	HMU PSA V-24411	24.3
80	Base Upgrader	HMU	HMU S-24103 Stack Outlet	24.2
81	Base Upgrader	CTWR	CTWR C-2714C Motor	24.1
82	Base Upgrader	CTWR	CTWR C-2714A Motor	24.1
83	Base Upgrader	RHC	RHC PSA V-22783	24.1
84	Base Upgrader	RHC	RHC E-22512-1	24.0
85	Refinery	Unit 15	Fan Casing C1501	24.0
86	Refinery	Unit 41	P4109A	23.9
87	Base Upgrader	HMU	HMU PSA V-24411	23.9
88	Base Upgrader	HMU	HMU PSA V-24411	23.9
89	Refinery	Unit 11	E1121-2	23.8
90	Refinery	Unit 11	E1127-C1	23.8

Order-Ranked Sound Level Contributions at Receptor NCIA 4 Shell Canada Ltd. - Scotford Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
91	Refinery	Unit 22	P2201C Motor	23.8
92	Refinery	Unit 41	E4123-4	23.7
93	Refinery	Unit 11	P1108 middle circ reflux Motor	23.6
94	Refinery	Unit 41	E4123-1	23.6
95	Chemicals	Utilities	SHut-45_Utilities LP Steam Header	23.6
96	Base Upgrader	HMU	HMU S-24203 Stack Outlet	23.6
97	Base Upgrader	HMU	HMU PSA V-24311	23.5
98	Base Upgrader	HMU	HMU PSA V-24411	23.5
99	Refinery	Unit 11	E1124-A1	23.4
100	Refinery	Unit 22	P2201B Pump	23.3
		Sum of all	noise contrubutions above (1 to 100)	49.5
		Sum of all re	maining noise sources (101 to 2151)	45.4
			Total Sound Pressure Level	51.0

Order-Ranked Sound Level Contributions at Receptor NCIA 11 Shell Canada Ltd. - Scotford Summertime Conditions, Calm Wind

Order			Equipment Noise Source	Sound Pressure
Rank #	Site	Unit	Description or Tag	Level (dBA)
1	Base Upgrader	A&V	A&V I-21103B Stg1 Disch 42in Pip	30.5
2	Refinery	Unit 61	Flare	23.3
3	Base Upgrader	A&V	A&V I-21103A Stg1 Disch 42in Pip	22.7
4	Expansion Upgrader	RHC	RHC R-421001 South Wall	21.6
5	Base Upgrader	SRU	SRU Incin Stack Outlet	19.2
6	Base Upgrader	A&V	A&V I-21103B	18.8
7	Base Upgrader	COGEN	CGN HRSG Stack	18.6
8	Base Upgrader	A&V	A&V I-21103A	17.6
9	Refinery	Unit 61	P6303	17.1
10	Base Upgrader	A&V	A&V I-21104A Stg2 Disch 18in Pip	16.9
11	Base Upgrader	RHC	RHC Pipe 12in Lagd After HV-2226	16.9
12	Chemicals	MEG	TT 3101 Vessel8	15.6
13	Refinery	Unit 61	P6109A	15.5
14	Base Upgrader	RHC	RHC PSA V-22883	15.2
15	Chemicals	MEG	TT 3101 Vessel1	15.1
16	Chemicals	MEG	TT 3101 Vessel7	14.9
17	Base Upgrader	RHC	RHC PSA V-22783	14.9
18	Base Upgrader	A&V	A&V I-21104A Stg2 Disch Pipe Sup	14.6
19	Refinery	Unit 24	C2401 Comp Bldg N open	14.5
20	Chemicals	MEG	TT 3101 Vessel2	14.5
21	Expansion Upgrader	RHC	RHC Feed Mixing Deck	14.4
22	Refinery	Unit 31/32	Regen Blower Fan case	14.4
23	Base Upgrader	A&V	A&V I-21104B Stg2 Disch 18in Pip	14.2
24	Expansion Upgrader	HMU	HMU S-44103	14.1
25	Base Upgrader	HMU	HMU S-24203 Stack Outlet	13.8
26	Base Upgrader	HMU	HMU S-24103 Stack Outlet	13.8
27	Refinery	Unit 31/32	Unit 30 Comp Bldg N Opening	13.8
28	Expansion Upgrader	RHC	RHC P-42601B	13.7
29	Refinery	Unit 31/32	H-3201 duct sources	13.5
30	Base Upgrader	RHC	RHC Pipe 12in Lagd After HV-2236	13.4
31	Chemicals	Utilities	SHut-21_Utilities De-airator vent	13.3
32	Refinery	Unit 61	P6140	13.0
33	Expansion Upgrader	SRC	SRC S-41705 Incinerator stack ou	13.0
34	Expansion Upgrader	SRC	SRC V-41706 W (Incinerator)	12.8
35	Base Upgrader	CTWR	CTWR Cooling Tower W Splash	12.7
36	Refinery	Unit 31/32	C-3204A FD Fan Casing	12.3
37	Expansion Upgrader	A&V	A&V support 40949	12.3
38	Refinery	Unit 31/32	C-3204A FD Fan Inlet	12.2
39	Expansion Upgrader	A&V	A&V support 41162	12.2
40	Chemicals	MEG	TT3101 piping	12.0
41	Chemicals	MEG	MEG Compressor Discharge after	11.9
42	Base Upgrader	SRU	SRU PM-21405B	11.8
43	Base Upgrader	SRU	SRU PM-21307	11.4
44	Refinery	Unit 61	P6147	11.3
45	Expansion Upgrader	RHC	RHC East Mixing Deck	11.3

Order-Ranked Sound Level Contributions at Receptor NCIA 11 Shell Canada Ltd. - Scotford Summertime Conditions, Calm Wind

Order			Equipment Noise Source	Sound Pressure
Rank #	Site	Unit	Description or Tag	Level (dBA)
46	Expansion Upgrader	CTWR	CTWR Pkg Blr Bldg W OH Door	11.3
47	Base Upgrader	HMU	HMU C-24101 Air Inlet	11.1
48	Base Upgrader	HMU	HMU TK-24101 LO Skid	11.1
49	Refinery	Unit 25	C2501 - compressor building N op	11.0
50	Expansion Upgrader	CTWR	CTWR 54201 W water splash	11.0
51	Base Upgrader	HMU	HMU S-24401 PSA Bldg Ridge Vent	10.8
52	Base Upgrader	A&V	A&V I-21104B Stg2 Disch Pipe Sup	10.6
53	Base Upgrader	HMU	HMU PSA V-24411	10.5
54	Refinery	Unit 42	Unit 42 Comp Bldg N opening	10.5
55	Expansion Upgrader	A&V	A&V E-41124 (1st stage condenser	10.4
56	Base Upgrader	SRU	SRU Blower Bldg E Mtr Cool 1	10.3
57	Base Upgrader	HMU	HMU PSA V-24411	10.2
58	Expansion Upgrader	CTWR	CTWR mtr54201D	10.2
59	Expansion Upgrader	A&V	A&V E-41125 (2nd stage condenser	10.2
60	Expansion Upgrader	CTWR	CTWR mtr54201C	10.2
61	Expansion Upgrader	CTWR	CTWR mtr54201B	10.2
62	Base Upgrader	HMU	HMU PSA V-24411	9.9
63	Expansion Upgrader	A&V	A&V support 41070	9.9
64	Expansion Upgrader	A&V	A&V support 41100	9.9
65	Expansion Upgrader	A&V	A&V support 41131	9.8
66	Expansion Upgrader	A&V	A&V support 40978	9.8
67	Expansion Upgrader	A&V	A&V support 40918	9.8
68	Base Upgrader	HMU	HMU PSA V-24411	9.8
69	Expansion Upgrader	A&V	A&V support 41192	9.8
70	Base Upgrader	HMU	HMU PSA V-24411	9.8
71	Refinery	Unit 22	C2202 Compressor Building N Open	9.8
72	Refinery	Unit 21	Unit 21 Deaerator	9.7
73	Refinery	Unit 25	E 2509-A1	9.7
74	Base Upgrader	HMU	HMU PSA V-24411	9.7
75	Base Upgrader	COGEN	CGN Deair Stm W Vent 1	9.7
76	Base Upgrader	COGEN	CGN Deair Stm E Vent 1	9.6
77	Expansion Upgrader	A&V	A&V C-41111 (FD fan)	9.6
78	Refinery	Unit 21	H2102 heater wall	9.6
79	Base Upgrader	HMU	HMU C-24201 Air Inlet	9.6
80	Base Upgrader	RHC	RHC E-22512-2	9.6
81	Expansion Upgrader	A&V	A&V C-41113 (FD fan)	9.5
82	Refinery	Unit 61	P6301	9.5
83	Chemicals	MEG	TT3101 piping	9.4
84	Refinery	Unit 31/32	H3251 blower fan case	9.4
85	Base Upgrader	COGEN	CGN Turb Bldg Rect Roof Fan 1	9.3
86	Base Upgrader	COGEN	CGN Turb Bldg Rect Roof Fan 2	9.2
87	Expansion Upgrader	A&V	A&V Pipe support from I-41102A	9.1
88	Expansion Upgrader	A&V	A&V P-41112B	9.0
89	Chemicals	Utilities	SHut-37_Cooling Tower fan #1 (1-8 W-	9.0
90	Chemicals	Utilities	SHut-37_Cooling Tower fan #2 (1-8 W-	8.9

Order-Ranked Sound Level Contributions at Receptor NCIA 11 Shell Canada Ltd. - Scotford Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
91	Refinery	Unit 21	H2101 heater wall	8.9
92	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	8.9
93	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	8.9
94	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	8.9
95	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	8.9
96	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	8.9
97	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	8.9
98	Refinery	Unit 31/32	Unit 30 steam vent	8.9
99	Base Upgrader	A&V	A&V I-21105 Stg3 Disch 12in Pipe	8.8
100	Chemicals	Utilities	SHut-37_Cooling Tower fan #7 (1-8 W-	8.7
		Sum of all	noise contrubutions above (1 to 100)	35.3
		Sum of all re	maining noise sources (101 to 2151)	30.4
			Total Sound Pressure Level	36.5



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Quest Noise Model Development Shell Scotford Quest Carbon Capture and Storage Facility

> December 2016 SLR Project No.: 203.50049.00004



QUEST NOISE MODEL DEVELOPMENT

SHELL SCOTFORD QUEST CARBON CAPTURE AND STORAGE FACILITY

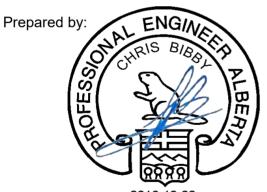
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December 22, 2016



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Distribution: 1 copy – Shell Canada Ltd. (pdf) 1 copy – SLR Consulting (Canada) Ltd.

EXECUTIVE SUMMARY

The Shell Canada (Shell) Scotford Complex is comprised of Refinery, Upgrader (Base and Expansion), and Chemicals sites. Shell maintains computer a noise models of the Scotford Complex, as required by the Northeast Capital Industrial Association (NCIA) Regional Noise Management Plan (RNMP). The noise models are used to predict the environmental noise produced by industrial noise sources on the Scotford site.

In 2015 Shell started up the Quest carbon capture and storage project (CCS). Quest collects CO_2 from the Upgrader Hydrogen Manufacturing Units (HMU), compresses and cools the CO_2 into a liquid state, and transfers the liquid CO_2 by pipeline to offsite wells where it is injected into the ground. Shell retained SLR Consulting (Canada) Ltd. (SLR) to develop a noise model of the Quest unit and integrate it into the Shell Scotford complex noise model.

SLR conducted equipment noise and model validation measurements for the Quest unit in August 2016. The measurement data was used to develop a 3D noise model of the facility, which was validated by comparison of measured and predicted noise levels at 17 locations around the unit. The model was shown to be accurate to within ±3 dBA at all the locations.

The Quest unit noise model has been incorporated into the existing Shell Scotford noise model and used to predict the facility noise contributions at 19 environmental receptor locations. These locations include receptor locations used for previous Shell Scotford site noise studies, and receptor locations corresponding to the NCIA 2014 noise monitoring locations. Addition of the Quest unit resulted in an increase of 0.0 to 0.3 dBA in the total Shell Scotford complex noise contribution at these receptors. This slight increase will not perceptibly change the overall industrial noise in the Scotford site vicinity.

The off-site noise predictions were used to determine the impact of each equipment noise source at four receptor locations, in different directions from the Scotford site. For each of these four receptors, order-ranked lists have been prepared that identify the 100 equipment noise sources with the highest noise contribution. The equipment noise source(s) with the highest noise contribution are the sources for which noise control treatment would have the largest impact on the overall Scotford site noise contribution. Quest sources appear in the top 100 sources for all four receptors; however, Quest sources are not dominant noise sources at any receptor. The Quest noise source with the greatest contribution is the CO_2 compressor (C-42701) 1st stage discharge piping. Shell may consider acoustical treatment of the CO_2 compressor discharge piping for a future noise control project.

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APPENDICES

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Appendix B	Model Validation Tables and Figures
Appendix C	Environmental Noise Contour Figures
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Appendix E	Glossary of Acoustical Terms

- Environmental Noise Descriptors Outdoor Sound Propagation
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1.0 INTRODUCTION

The Shell Canada (Shell) Scotford Complex, shown in Figure 1, is comprised of Refinery, Upgrader (Base and Expansion), and Chemicals sites. Shell maintains computer a noise models of the Scotford Complex, as required by the Northeast Capital Industrial Association (NCIA) Regional Noise Management Plan (RNMP). The noise models are used to predict the environmental noise produced by industrial noise sources on the Scotford site.

In 2015 Shell started up the Quest carbon capture and storage project (CCS). Quest collects CO_2 from the Upgrader Hydrogen Manufacturing Units (HMU), compresses and cools the CO_2 into a liquid state, and transfers the liquid CO_2 by pipeline to offsite wells where it is injected into the ground. Shell retained SLR Consulting (Canada) Ltd. (SLR) to develop a noise model of the Quest unit and integrate it into the Shell Scotford complex noise model. The objectives of this work are:

- identify significant sources of environmental noise associated with the Quest unit,
- conduct diagnostic noise measurements of identified equipment to determine equipment sound power levels,
- construct a 3D noise model of the Quest unit,
- validate noise model by comparing measured and predicted noise levels,
- calculate the noise contribution of the Quest unit at environmental receptor locations, and
- identify the Quest unit noise sources that have the greatest contribution to environmental noise.

A glossary of acoustical terms, an introduction to environmental noise descriptors, and an introduction to outdoor sound propagation are provided in Appendix E, F, and G.



Figure 1: Shell Scotford Complex (Image ©2016 Google)



Figure 2: Quest CCS Facility¹

¹Image: Alberta Energy [2016]. Retrieved from "http://www.energy.alberta.ca/CCS/3822.asp"

2.0 REVIEW OF THE SHELL SCOTFORD NOISE MODEL

2.1 Environmental Noise Model Software

The Shell Scotford Complex noise model is maintained in the SoundPLAN computer noise modelling platform. Updates to SoundPLAN are issued from time to time by the manufacturer to improve the software program. The current version of SoundPLAN is Version 7.4, and the Scotford noise model exists in this most recent version.

The Shell Scotford noise model calculations utilize the ISO 9613 calculation method for absorption of sound by the atmosphere, and the CONCAWE calculation method for outdoor sound propagation from industrial facilities. These calculation methods account for the following outdoor sound propagation effects:

- Geometric spreading
- Ground attenuation
- Atmospheric absorption
- Barrier attenuation.
- Wind or temperature gradients.

Meteorological parameters and ground attenuation values typical of summer seasonal conditions are used in the noise model calculations. These conditions include an air temperature of 10°C and a relative humidity of 70%. The CONCAWE procedure allows calculations to be made for calm and downwind sound propagation from the site. The noise model results presented in this report are for calm winds.

The NCIA Regional Noise Model also utilizes the ISO 9613 and CONCAWE calculation methods. The temperature, humidity, ground attenuation and terrain parameters for the Shell Scotford noise model calculations are also the same as those used for the NCIA Regional Noise Model.

3.0 PREVIOUS SHELL SCOTFORD NOISE MODEL

Figure 1 shows the Shell Scotford Complex sites and individual process areas. A major update of the Shell Scotford noise model was completed in 2015 which brought the noise models for all process areas up to date. The 2015 noise model update was thoroughly validated by comparing measured and predicted noise levels throughout the facility. The Quest unit was not included in the 2015 model update as it was not operating during the field work phase of the update project.

The 2015 model update report² contains a detailed log of past noise-related projects at Scotford including noise modeling projects, noise impact assessments, and noise control projects. The historical log will not be reproduced in this report; interested readers should refer back to the 2015 model update report. An addendum to the 2015 model update report was issued in 2016 to address issues related to the Chemicals site model validation³.

² SLR Consulting (Canada) Ltd., *2015 Shell Scotford Noise Model Update,* SLR Project No.: 203.50049.00001, 203.50049.00002, January 18, 2016.

³ SLR Consulting (Canada) Ltd., Addendum to the *2015 Shell Scotford Noise Model Update*, SLR Project No.: 203.50049.00004, November 28, 2016.

4.0 FACILITY NOISE SURVEY

An initial site visit was conducted by Pascal Everton, P.Eng., and Chris Bibby, M.A.Sc., P.Eng., of SLR on April 26, 2016, to discuss the unit operation with Quest engineering personnel and identify all equipment noise sources. A subsequent diagnostic noise survey was conducted by Chris Bibby, M.A.Sc., P.Eng., and Matt Gaskell, C.E.T., of SLR on August 10 and 11, 2016, to collect data required to determine the sound power levels of individual equipment noise sources associated with the Quest unit.

The sound measurement instrumentation used for the on-site noise measurements were as follows:

- Brüel & Kjær Type 2270 hand-held analyser (2)
- Brüel & Kjær Type 4189 ¹/₂" microphone (2)
- Brüel & Kjær ZC-0032 preamplifier (2)
- Larson Davis 2541 ¹/₂" microphone
- Larson Davis PRM900B preamplifier
- Brüel & Kjær UA-1650 wind screen (2)
- SLR Acoustical Pipe Box
- Brüel & Kjær Type 4231 calibrator (2)
- PCB 308B Accelerometer
- Brüel & Kjær Type 4294-002 shaker (accelerometer calibrator)

All major noise sources in the Quest unit were measured, including the following equipment:

- FGR fans (located in the Upgrader HMU units)
- Various pumps and pump motors
- Valves
- Steam piping
- CO₂ centrifugal compressor, gear box, and motor
- Compressor piping
- CO₂ compressor building rooftop ventilation and exhaust fans
- CO₂ compressor building air handling unit (AHU)
- Fin-fan (aerial) coolers

The CO_2 suction piping was not measured as it was insulated (mineral wool with aluminum jacket). The acoustic attenuation provided by this insulation resulted in the CO2 suction piping being an insignificant source of noise.

Equipment that operates intermittently or in emergency situations such as emergency flares, PSV valves, and vents can emit high levels of noise. However, unless the equipment operates regularly, these sources are typically not included in environmental noise models.

Additional sound pressure level measurements were conducted on the roadways around the Quest unit for model validation purposes.

4.1 Measurement Methods and Sound Power Level Calculation

SLR utilizes a variety of measurement techniques and calculation methods to determine equipment sound power levels. Equipment noise measurements are conducted according to standardized methods, to the extent practicable, however strict conformance to the standards is typically not achieved. The following procedures and methods were used for the Quest noise study:

- ISO 3744-10(2015) Acoustics Determination of sound power levels and sound energy levels of noise sources using sound pressure Engineering methods for an essentially free field over a reflecting plane
 - Used to determine equipment sound power levels in the presence of low background noise levels
- ASTM E1124 -10(2016) Standard Test Method for Field Measurement of Sound Power Level by the Two-Surface Method
 - Used to determine equipment sound power levels in the presence of high background noise levels
- ISO/TS 7849-1:2009 Acoustics Determination of airborne sound power levels emitted by machinery using vibration measurement - Part 1: Survey method using a fixed radiation factor
 - Used to determine pipe sound power levels in the presence of high background noise levels
- SLR Acoustical Pipe Box SLR-developed technique that uses a small acoustical enclosure with an internal microphone to isolate a pipe segment from the ambient noise environment. SLR has determined correction factors to calibrate for the acoustical effect of the enclosure.
 - Used to determine pipe sound power levels in the presence of high background noise levels

Equipment noise data collected during the noise survey were processed to determine the octave band sound power levels (PWL) of each noise source. The noise source sound power level data, along with noise source geometry and directivity information were used to define the acoustical energy and location coordinates of each noise source within the computer noise model.

The CO_2 compressor building (R-24701) sound power could not be determined from sound pressure level measurements of the building exterior because the noise transmitted through the building envelope is well below the exterior ambient noise level. The compressor building sound power was estimated from measurements of the interior sound pressure levels and theoretical values for the sound transmission loss of the building envelope elements. The estimated sound power of the compressor building was found to be very small in comparison to other noise sources in the Quest unit; therefore, uncertainty in this estimation does not significantly increase the uncertainty in the total facility sound power.

Equipment sound power level data for the Quest noise sources are provided in Appendix A. Note that the Quest project includes three FGR fans installed in the Upgrader HMU units (C-24103, C-24203, and C-44103). Additionally, noise source sound power levels for the Base Upgrader HMU PSA vessels have been revised to improve model accuracy.

5.0 QUEST NOISE MODEL

A 3D model of the Quest unit was developed, including all major buildings, structures, vessels, and noise sources in the unit. A plan view of the model is shown in Figure 3. A 3D view of the model in provided in Figure 4; the structures have been suppressed in this figure.

A summary of the overall sound power of the various equipment groups in the Quest unit is provided in Table 1. This table shows that the total sound power level of the Quest unit is dominated by CO_2 compressor piping noise. The fin-fan coolers, pumps, and motors also produce significant contributions, but are well below that of the compressor piping. The total sound power level of the Quest unit is compared to the sound power level of other sites in the Scotford Complex in Table 2. The Quest unit sound power level is about 11 dBA below the total sound power level of the Shell Scotford complex. Addition of the Quest unit increased the total Shell Scotford complex sound power level by 0.3 dBA.

Equipment Group	Sound Power Level, dBA	Remarks
Compressor Building	106.1	Includes AHU and rooftop fans
CO2 piping	123.6	
Steam Piping	104.4	
Fin-fan coolers	115.1	
Pumps and motors	113.1	
Quest Unit Total	124.1	

Table 1 Quest Sound Power Levels Summary

Table 2 Total Sound Power Levels by Site

Site	Unit	Sound Power Level (dBA)	Remarks
Chemicals	All Units	126.5	
Refinery	All Units	129.6	
Upgrader	All Other Units	133.0	w/o Quest
Upgrader	Quest	124.1	
Shell Scotford Total w/o Quest		135.3	
Shell Scotford Total w Quest		135.6	

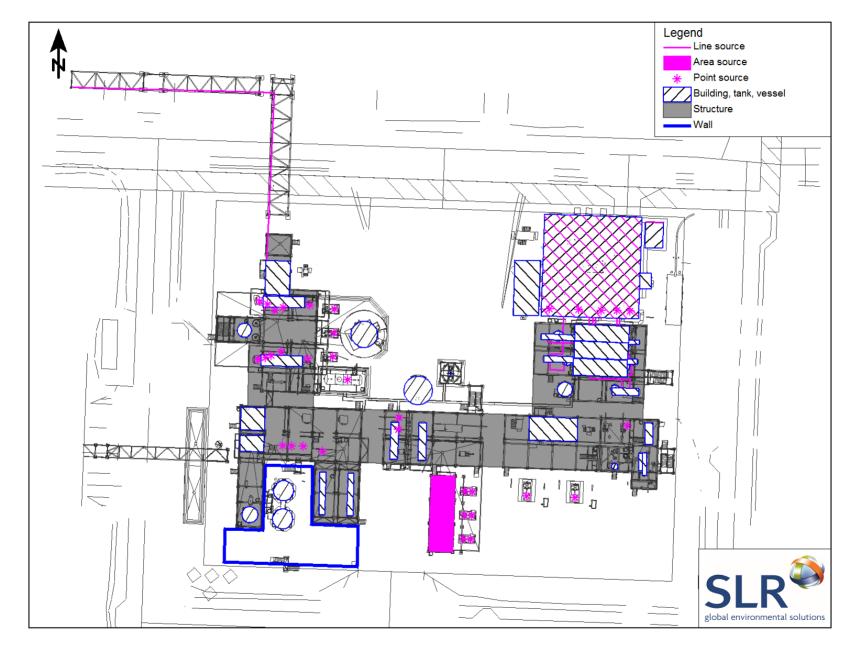


Figure 3 Quest Noise Model – Plan View

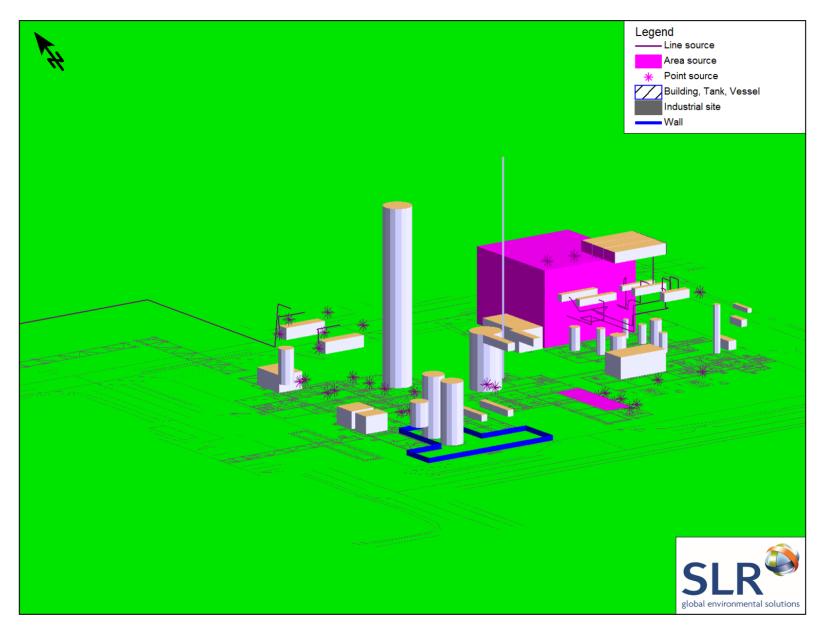


Figure 4 Quest Noise Model – 3D View (Structures Not Shown)

6.0 ON-SITE MODEL VALIDATION

The Quest unit noise model was used to predict facility sound levels at measurement locations around the unit. The predicted sound levels were compared to measured sound levels to evaluate the noise model accuracy.

Details of the model validation results are shown by way of tables and figures in Appendix B. Table B-1 shows the measured sound level, predicted sound level, and difference, at each validation location. The predicted sound levels are within ±3 dBA of the measured levels at all locations, which is a very good validity margin for industrial facility noise models. On average, the predicted sound level is 0.2 dBA higher than the measured sound level. Figures B-1 shows the validation location on the site plot-plan, overlaid on top of the validation model noise map. Figure B-2 is a graphical presentation of the validation results.

7.0 OFF-SITE PREDICTED SOUND LEVELS

The Quest unit sound level contribution has been predicted at 19 off-site locations, which are identified in Figure 5, using the validated noise model. All predictions correspond to summertime ground and atmospheric conditions, with calm winds. Ten of these receptor locations, identified as "Rxx", correspond to the locations used for previous Shell Scotford site noise impact assessments. Nine other receptor locations, identified as "NCIA x" correspond to NCIA RNMP 2014 noise monitoring locations. The distance and direction of these receptors from the Scotford fence line are provided in Table 2. These receptors are identical to those used in the 2015 Shell Scotford Noise Model Update report.

The predicted sound level contributions of the Quest unit at these receptors are shown in Table 3, along with the total Shell Scotford complex sound level contribution with and without the Quest unit. The results in Table 3 show that the addition of the Quest unit to the site increases the total Scotford complex noise contribution by 0.0 to 0.3 dBA at the receptors. This slight increase is substantially lower than the commonly accepted just noticeable difference for human hearing $(3 \text{ dB})^4$ and represents an imperceptible change in the overall Scotford noise contributions within the study area.

Appendix C presents noise contour maps that show the predicted noise contributions of Quest and the Scotford complex in the vicinity the Scotford site.

7.1 Order Ranked Lists

Appendix D provides order–ranked lists of the top 100 noise source contributions at four receptor locations. Order ranked lists are provided for Receptor location R04, R10, NCIA 4, and NCIA 11, which are located north, east, south, and west of the Scotford complex, respectively. These lists are useful to identify the noise sources that have the highest impact at a given receptor location, and identify noise sources that have a significant impact in all directions from the Scotford complex.

Quest sources appear in the top 100 sources for all four receptors; however, they are not dominant noise contributors at any receptor. The Quest noise source with the greatest

⁴ Crocker, M. (2007) Handbook of Noise and Vibration Control. Hoboken, NJ: John Wiley & Sons.

contribution is the CO_2 compressor (C-42701) 1st stage discharge piping. Treating these sections of compressor piping with acoustical lagging would be an effective and low-cost noise control project. However, Shell should consider that the acoustical pipe lagging would increase thermal retention along the pipe sections, potentially increasing the load on the inter-stage coolers.

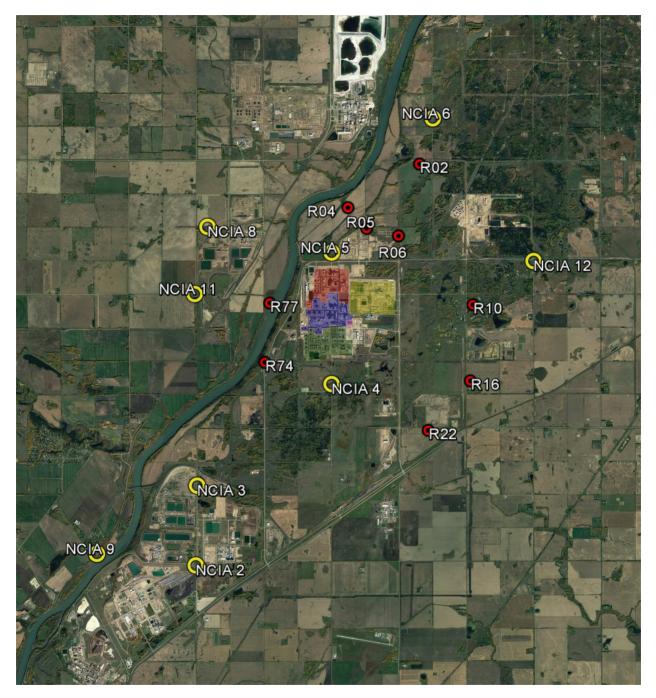


Figure 5 Shell Scotford Noise Receptor Locations (Image © GoogleEarth)

Receptor	Direction	Distance
NCIA 2	SSW	5.6 km
NCIA 3	SW	4.0 km
NCIA 4	S	0.6 km
NCIA 5	Ν	0.3 km
NCIA 6	NNE	4.0 km
NCIA 8	WNW	2.6 km
NCIA 9	SW	6.0 km
NCIA 11	W	2.6 km
NCIA 12	E	3.4 km
R02	NNE	3.0 km
R04	Ν	1.4 km
R05	NNE	1.2 km
R06	NE	1.1 km
R10	Е	2.0 km
R16	ESE	3.0 km
R22	SE	2.7 km
R74	SW	1.0 km
R77	W	0.7 km
R100	NNW	6.0 km

Table 3 Receptor Distance and Direction from Scotford Fenceline

Table 4 Predicted Sound Level Contribution at each Receptor

	Predicted Sound Pressure Level, dBA Leq					
		Shell Scotford Total				
		Without	With			
Receptor	Quest	Quest	Quest	Change		
NCIA 2	10.2	23.3	23.5	+ 0.2		
NCIA 3	15.5	28.3	28.5	+ 0.2		
NCIA 4	37.2	51.0	51.1	+ 0.1		
NCIA 5	35.4	54.0	54.1	+ 0.1		
NCIA 6	15.2	29.1	29.2	+ 0.1		
NCIA 8	21.1	36.5	36.5	0		
NCIA 9	7.4	20.1	20.3	+ 0.2		
NCIA 11	21.8	36.5	36.7	+ 0.2		
NCIA 12	19.2	30.1	30.4	+ 0.3		
R02	20.2	33.7	33.9	+ 0.2		
R04	25.1	43.3	43.3	0		
R05	29.2	46.9	47.0	+ 0.1		
R06	31.1	44.7	44.9	+ 0.2		
R10	27.3	38.3	38.6	+ 0.3		
R16	25.4	36.0	36.3	+ 0.3		
R22	24.6	36.3	36.6	+ 0.3		
R74	31.0	46.4	46.5	+ 0.1		
R77	31.7	50.1	50.1	0		
R100	7.7	22.7	22.8	+ 0.1		

8.0 CONCLUSION

The Shell Scotford complex is a member of the NCIA, and participates in the Regional Noise Management Plan. To ensure accuracy of the Shell Scotford noise contributions within the RNM, Shell retained SLR to incorporate the Quest CCS facility into the Scotford noise model. All other components of the Shell Scotford noise model were updated in 2015 and 2016.

SLR conducted equipment noise and model validation measurements for the Quest unit in August 2016 when the unit was operating normally. The measurement data has been used to develop a 3D noise model of the facility.

The Quest unit noise model was validated by comparison of measured and predicted noise levels at 17 locations around the unit. Agreement between the measured and predicted values is within ± 3 dBA at all the validation locations.

The Quest unit noise model has been incorporated into the existing Shell Scotford noise model and used to predict the facility noise contributions at 19 environmental receptor locations. These include receptor locations used for previous Shell Scotford site noise studies, and receptor locations corresponding to the NCIA 2014 noise monitoring locations. Addition of the Quest unit to the Shell site has resulted in an increase of 0.0 to 0.3 dBA in the total Shell Scotford complex noise contribution at these receptors. This slight increase will not perceptibly change the overall industrial noise in the Scotford site vicinity.

The off-site noise predictions were used to determine the impact of each equipment noise source at four different receptor locations, in different directions from the Scotford site. For each of these four receptors, order-ranked lists have been prepared that identify the 100 equipment noise sources with the highest noise contribution. The equipment noise source(s) with the highest noise contribution are the sources for which noise control treatment would have the largest impact on the overall Scotford site noise contribution. Quest sources appear in the top 100 sources for all four receptors; however, Quest sources are not dominant noise sources at any receptor. The Quest noise source with the greatest contribution is the CO_2 compressor (C-42701) 1st stage discharge piping. Shell may consider acoustical treatment of the CO_2 compressor discharge piping for a future noise control project.

9.0 STATEMENT OF LIMITATIONS

This report has been prepared and the work referred to in this report has been undertaken by SLR Consulting (Canada) Ltd. (SLR) for Shell Canada, hereafter referred to as the "Client". It is intended for the sole and exclusive use of Shell Canada. The report has been prepared in accordance with the Scope of Work and agreement between SLR and the Client. Other than by the Client and as set out herein, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of SLR.

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CB/NM

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APPENDIX A Quest Unit Equipment Sound Power Levels

Shell Canada Ltd. Shell Scotford Quest Carbon Capture and Storage Facility Quest Noise Model Development SLR Project No.: 203.50049.00004

Table A-1Equipment Sound Power LevelsShell Scotford QuestSummertime Conditions

			Sound Power	
0.14	11		Level	Demonto
Site	Unit	Tag/Description	(dBA)	Remarks
Upgrader	Quest	C-24701 1st Discharge Sect 2a	114.9	
Upgrader	Quest	C-24701 1st Discharge Sect 2b	114.9	
Upgrader	Quest	C-24701 1st Discharge Sect 2c	119.9	
Upgrader	Quest	C-24701 2nd Discharge	111.1	
Upgrader	Quest	C-24701 3rd Discharge	113.4	
Upgrader	Quest	C-24701 4th Discharge	111.4	
Upgrader	Quest	C-24701 5th Discharge	109.8	
Upgrader	Quest	C-24701 6th Discharge	109.9	
Upgrader	Quest	Comp Bldg AHU vent	93.1	
Upgrader	Quest	E-24603A	95.9	
Upgrader	Quest	E-24603B	95.9	
Upgrader	Quest	E-24706-1 E-24706-2	104.8 104.8	
Upgrader	Quest			
Upgrader	Quest	E-24706-3	104.8	
Upgrader	Quest	E-24707A-1	105.9	
Upgrader	Quest	E-24707A-2	105.9	
Upgrader	Quest	E-24707A-3	105.9	
Upgrader	Quest	E-24707B-1	105.9	
Upgrader	Quest	E-24707B-2	105.9	
Upgrader	Quest	E-24707B-3	105.9	Not O constitue
Upgrader	Quest	FN-24703A		Not Operating
Upgrader	Quest	FN-24703B	103.8	
Upgrader	Quest	FN-24703C		Not Operating
Upgrader	Quest	FN-24704A	97.5	
Upgrader	Quest	FN-24704A	97.5	
Upgrader	Quest	FV-246005 downstream pipe	92.0	
Upgrader	Quest	FV-246005 downstream pipe	91.9	
Upgrader	Quest	FV-246005 East dummy leg 1	92.5	
Upgrader	Quest	FV-246005 East dummy leg 2	92.5	
Upgrader	Quest	FV-246005 West dummy leg 1	95.9	
Upgrader	Quest	FV-246005 West dummy leg 2	95.9	
Upgrader	Quest	Lean Amine Pump Deck	96.7	
Upgrader	Quest	P-24601A	108.1	
Upgrader	Quest	P-24601B	108.1	
Upgrader	Quest	P-24601C		Not Operating
Upgrader	Quest	P-24602A Motor	100.3	
Upgrader	Quest	P-24602A Pump	99.7	
Upgrader	Quest	P-24602B Motor 100		
Upgrader	Quest			
Upgrader	Quest	P-24602C Motor		Not Operating
Upgrader	Quest	P-24602C Pump		Not Operating
Upgrader	Quest	P-24603A	88.5	
Upgrader	Quest			Not Operating
Upgrader	Quest	P-24604		Not Operating

Site	Unit	Tag/Description	Sound Power Level (dBA)	Remarks
Upgrader	Quest	P-24605	90.0	
Upgrader	Quest	P-24607		Not Operating
Upgrader	Quest	P-24608A	99.8	
Upgrader	Quest	P-24608B		Not Operating
Upgrader	Quest	P-24609A	97.3	
Upgrader	Quest	P-24609B		Not Operating
Upgrader	Quest	P-24610A	98.0	
Upgrader	Quest	P-24610B	98.0	
Upgrader	Quest	P-24611A	94.1	
Upgrader	Quest	P-24611B	94.1	
Upgrader	Quest	R-24701 East Wall	88.5	
Upgrader	Quest	R-24701 North Wall	88.3	
Upgrader	Quest	R-24701 Roof	90.0	
Upgrader	Quest	R-24701 South Wall	88.3	
Upgrader	Quest	R-24701 West Wall	88.5	
Upgrader	Quest	Steam Pipe from CoGen	97.0	
Upgrader	Quest	TV-248001	85.3	
Upgrader	HMU	HMU C-24103 Motor (FGR fan)	87.7	
Upgrader	HMU	HMU C-24203 Motor (FGR fan)	91.3	
Upgrader	HMU	HMU C-44103 Motor (FGR fan)	88.3	
Total			124.6	

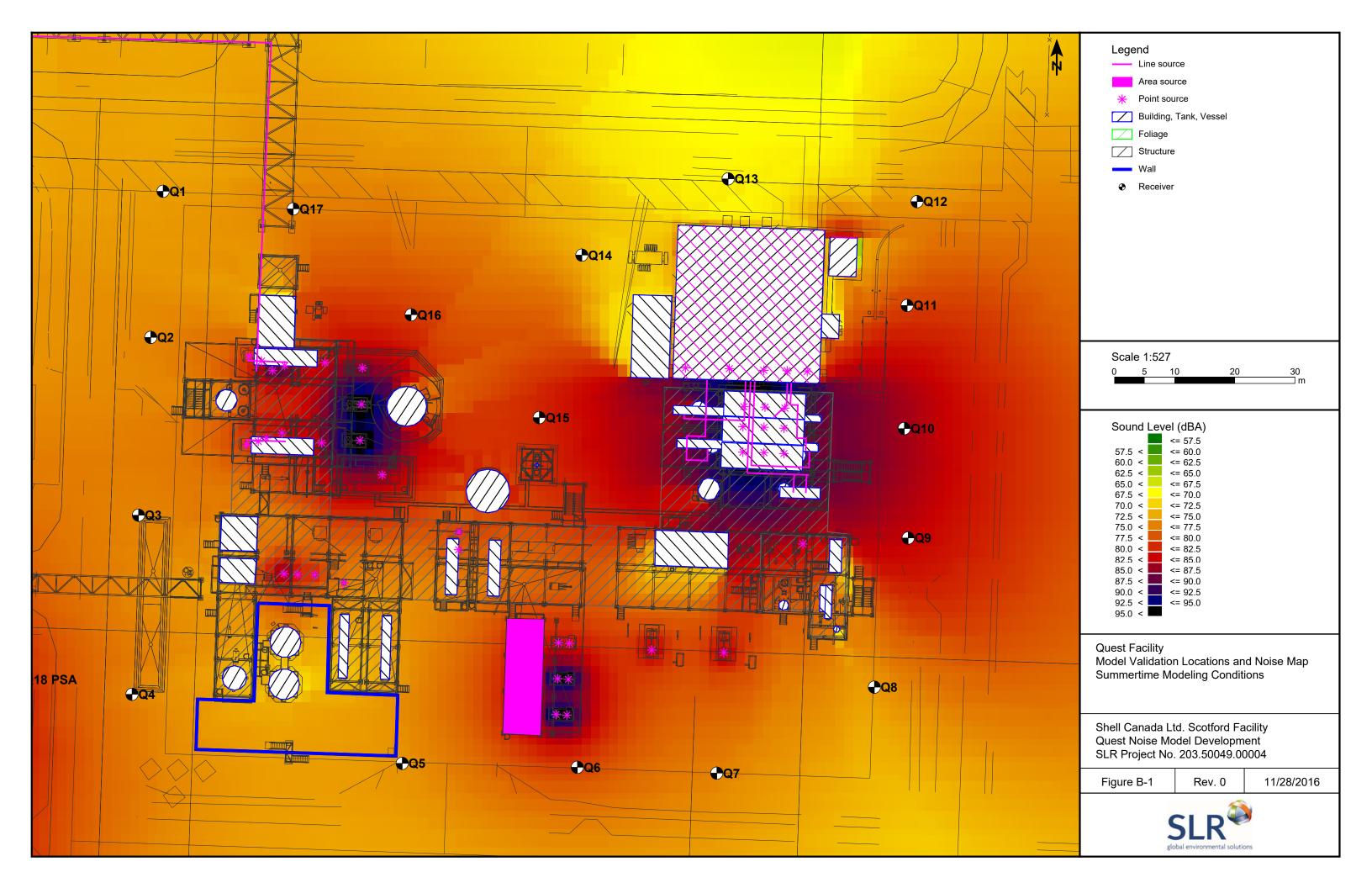
APPENDIX B Model Validation Tables and Figures

Shell Canada Ltd. Shell Scotford Quest Carbon Capture and Storage Facility Quest Noise Model Development SLR Project No.: 203.50049.00004

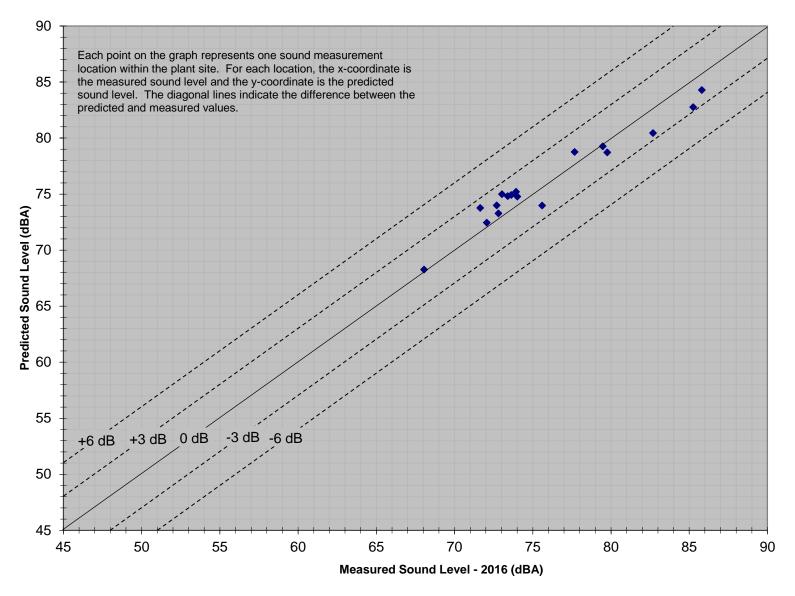
Table B-1

Model Validation Shell Scotford Quest Summertime Conditions

			Sound Pressure Level (dBA)		vel (dBA)	
		Location		_		
Site	Unit	Designation	Measured	Predicted	Difference	Remarks
Upgrader	Quest	+0.5	72.8	73.3	0.5	August 2016 measurement
Upgrader	Quest	+1.4	73.4	74.8	1.4	August 2016 measurement
Upgrader	Quest	+0.8	74.0	74.8	0.8	August 2016 measurement
Upgrader	Quest	+2	73.0	75.0	2.0	August 2016 measurement
Upgrader	Quest	+1.3	72.7	74.0	1.3	August 2016 measurement
Upgrader	Quest	+1.1	77.7	78.8	1.1	August 2016 measurement
Upgrader	Quest	+1.3	73.6	74.9	1.3	August 2016 measurement
Upgrader	Quest	+2.1	71.6	73.8	2.1	August 2016 measurement
Upgrader	Quest	-2.5	85.3	82.8	-2.5	August 2016 measurement
Upgrader	Quest	-1.5	85.8	84.3	-1.5	August 2016 measurement
Upgrader	Quest	-1	79.8	78.7	-1.0	August 2016 measurement
Upgrader	Quest	-1.6	75.6	74.0	-1.6	August 2016 measurement
Upgrader	Quest	+0.2	68.1	68.3	0.2	August 2016 measurement
Upgrader	Quest	+0.4	72.1	72.4	0.4	August 2016 measurement
Upgrader	Quest	-2.3	82.7	80.4	-2.3	August 2016 measurement
Upgrader	Quest	-0.2	79.5	79.3	-0.2	August 2016 measurement
Upgrader	Quest	+1.3	73.9	75.2	1.3	August 2016 measurement
				Average	+0.2	

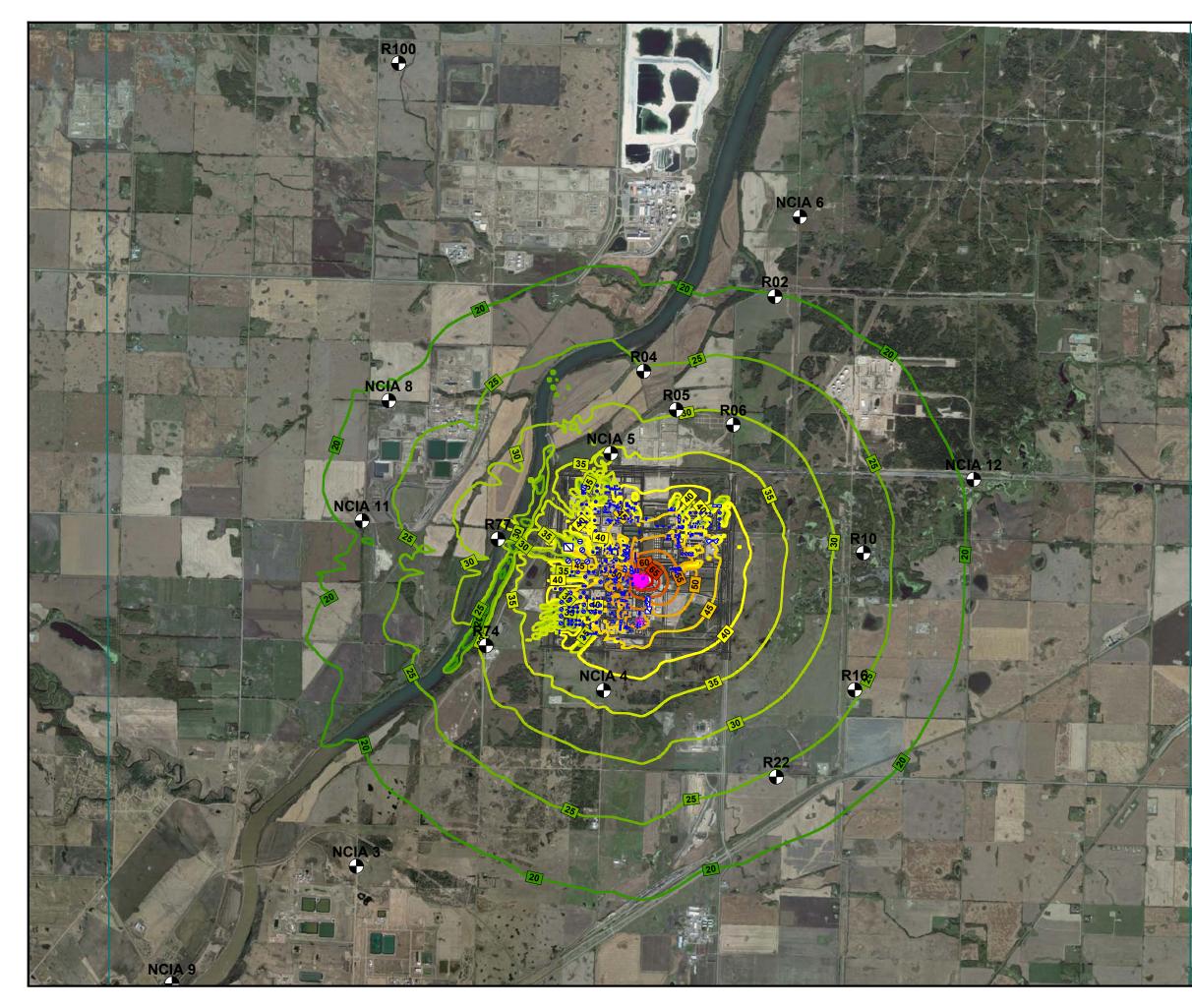


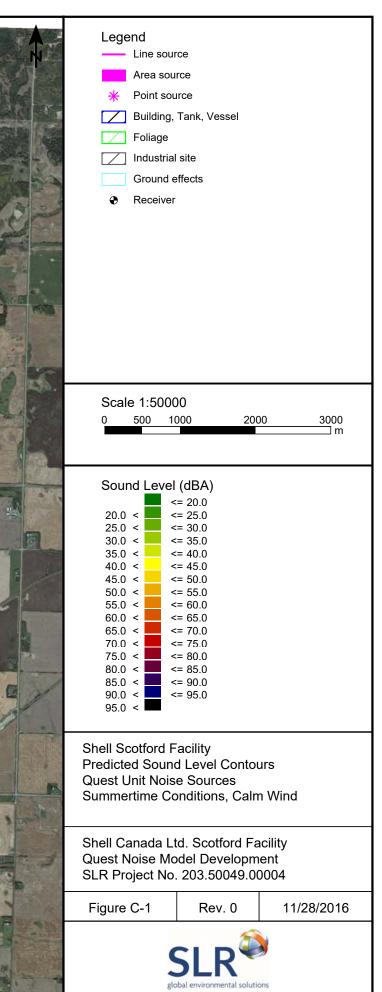


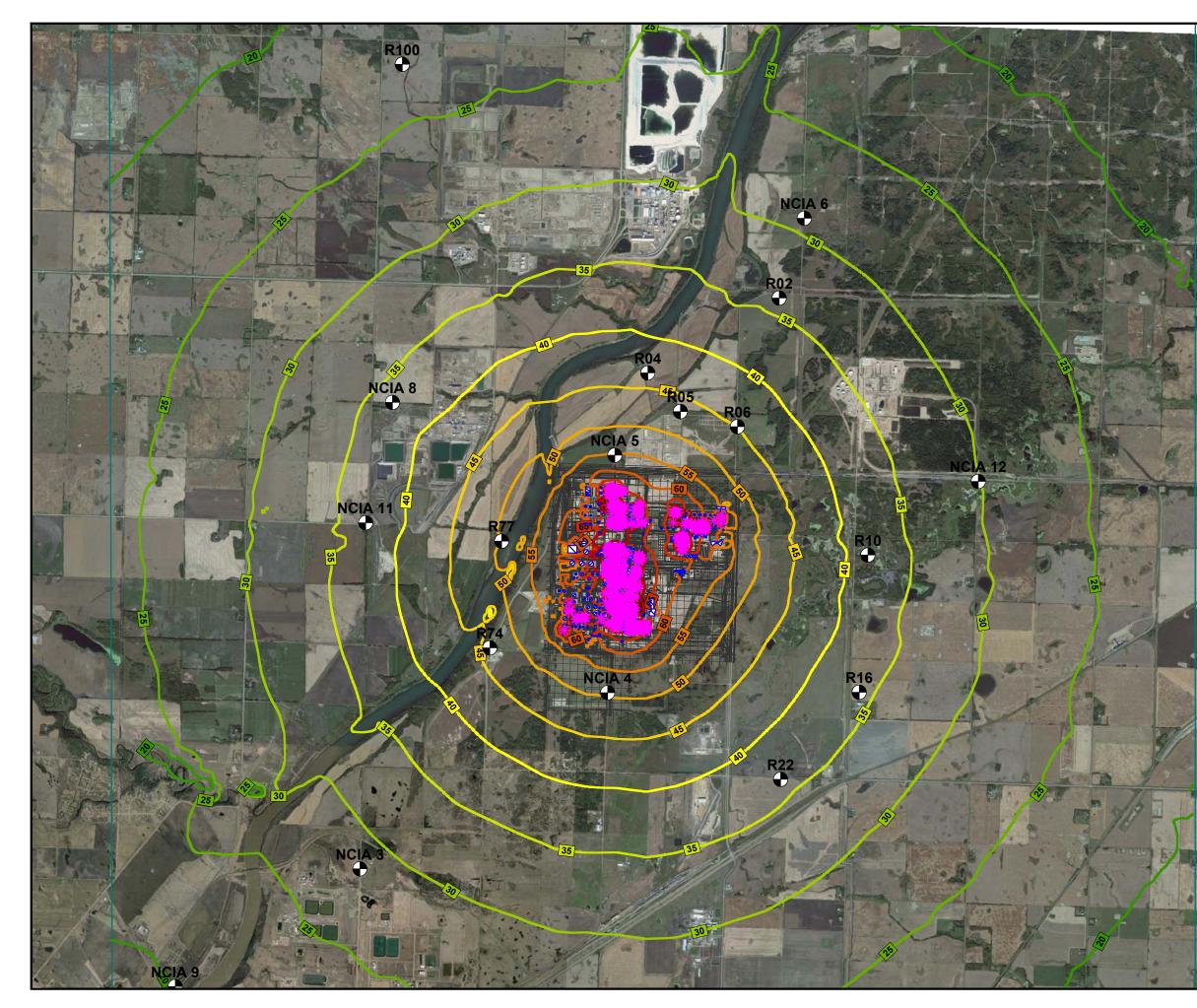


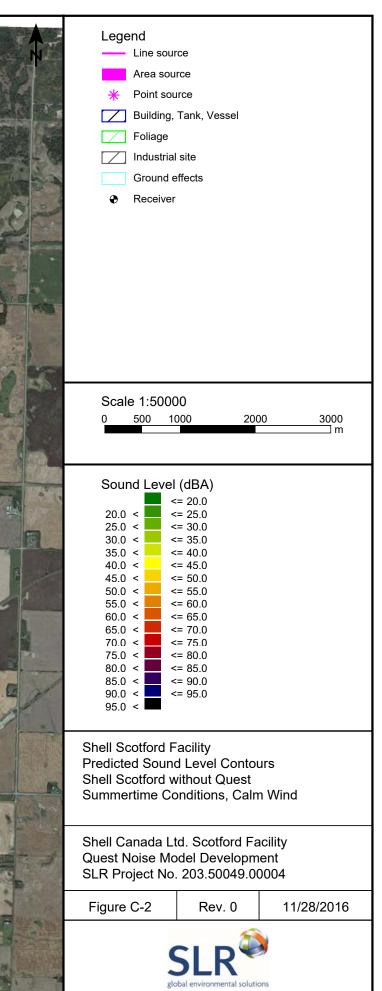
APPENDIX C Environmental Noise Contour Figures

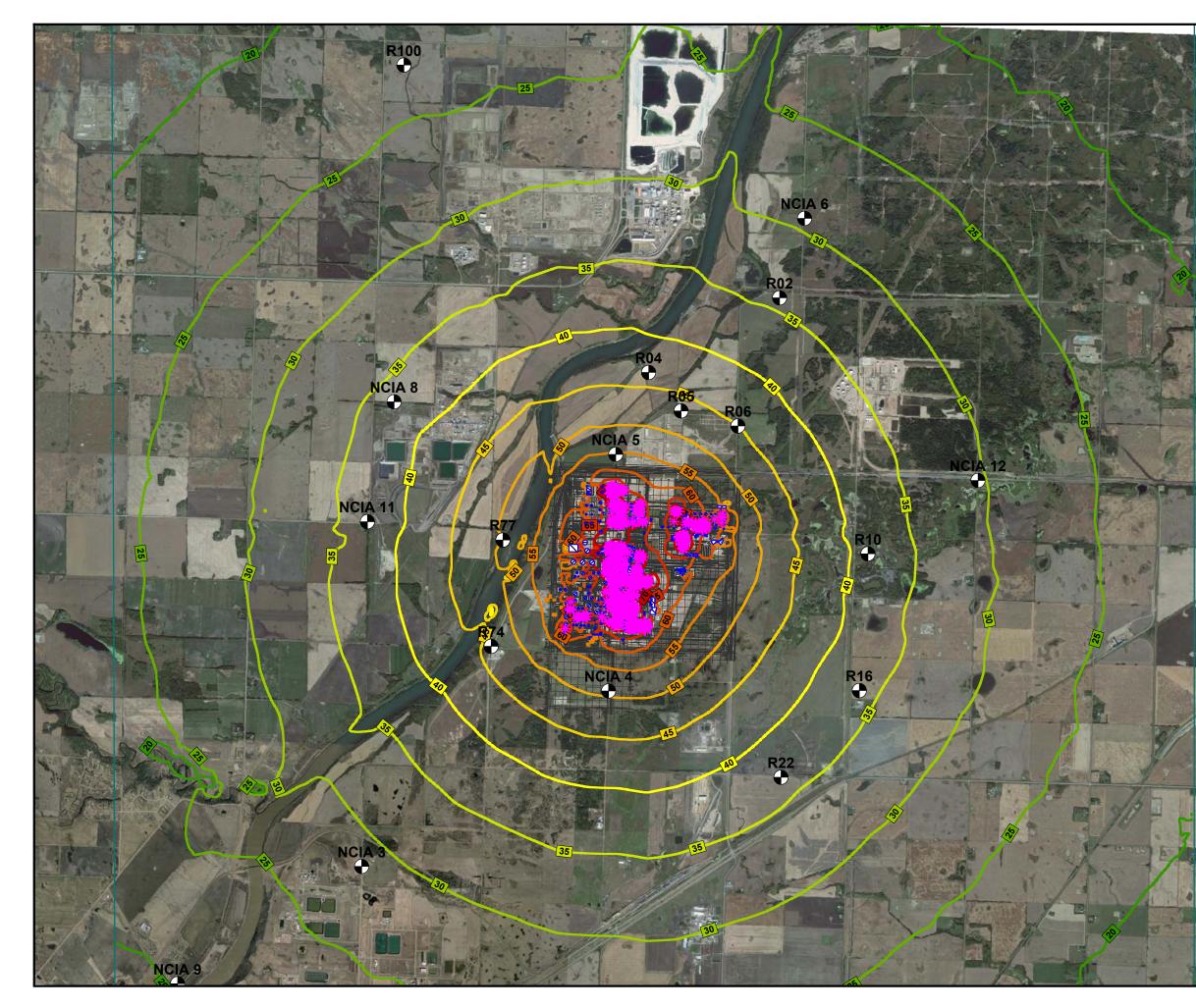
Shell Canada Ltd. Shell Scotford Quest Carbon Capture and Storage Facility Quest Noise Model Development SLR Project No.: 203.50049.00004

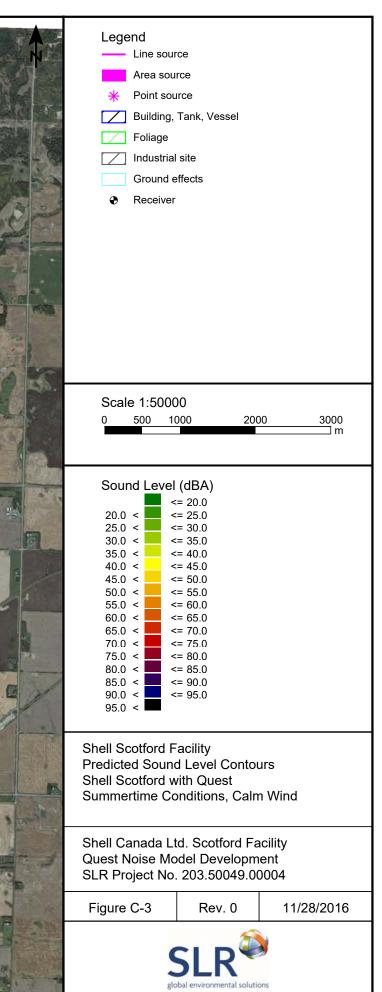






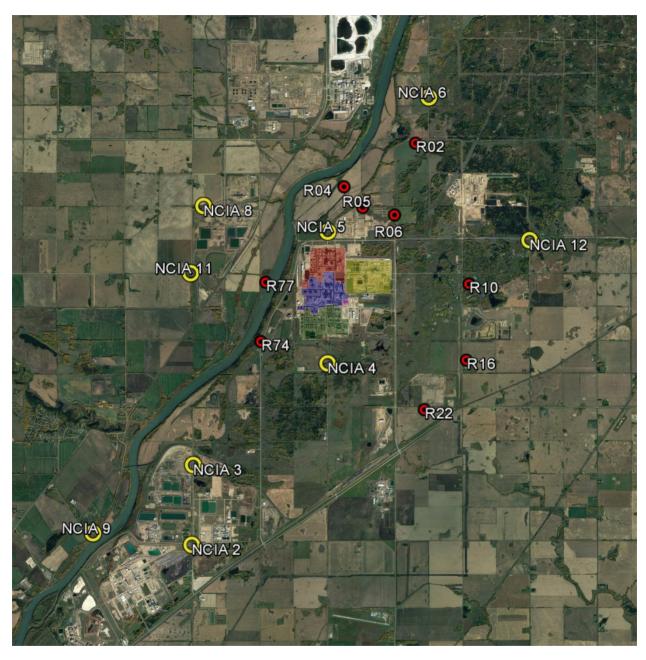






APPENDIX D Order-Ranked Lists

Shell Canada Ltd. Shell Scotford Quest Carbon Capture and Storage Facility Quest Noise Model Development SLR Project No.: 203.50049.00004



Order-ranked lists are provided in Tables D-1 through D-4, corresponding to Receptors R04, R10, NCIA 4, and NCIA 11 respectively.

Figure D-1 Shell Scotford Noise Receptor Locations (Image © GoogleEarth).

Order-Ranked Sound Level Contributions at Receptor R04 Shell Canada Ltd. - Scotford with Quest Summertime Conditions, Calm Wind

Order	01		Equipment Noise Source	Sound Pressure
Rank #	Site	Unit	Description or Tag	Level (dBA)
1	Base Upgrader	A&V	A&V I-21103B Stg1 Disch 42in Pip	37.0
2	Base Upgrader	A&V	A&V I-21103A Stg1 Disch 42in Pip	36.3
3	Chemicals	Utilities	Utilities Cooling Tower North Sp	28.3
4	Refinery	Unit 61	Flare	26.0
5	Base Upgrader	A&V	A&V I-21103B	25.1
6	Chemicals	Utilities	Utilities De-airator vent	24.5
7	Expansion Upgrader	A&V	A&V E-41124 (1st stage condenser	24.4
8	Expansion Upgrader	RHC	RHC Feed Mixing Deck	23.9
9	Base Upgrader	CTWR	CTWR Cooling Tower E Splash	23.3
10	Expansion Upgrader	HMU	HMU S-44103	23.2
11	Expansion Upgrader	A&V	A&V E-41125 (2nd stage condenser	23.2
12	Expansion Upgrader	RHC	RHC P-42601B	23.1
13	Expansion Upgrader	A&V	A&V Pipe support from I-41102A	22.1
14	Base Upgrader	COGEN	CGN HRSG Stack	22.1
15	Base Upgrader	SRU	SRU Incin Stack Outlet	22.0
16	Expansion Upgrader	A&V	A&V P-41106A	21.4
17	Base Upgrader	A&V	A&V I-21104A Stg2 Disch 18in Pip	20.7
18	Base Upgrader	RHC	RHC PSA V-22783	20.6
19	Chemicals	Styrene	HS 219 Styrene Furnace Base	20.5
20	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	19.8
21	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	19.8
22	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	19.8
23	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	19.8
24	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	19.8
25	Expansion Upgrader	HMU	HMU V-44315 PSA Off Gas Drum	19.8
26	Expansion Upgrader	A&V	A&V set 40943	19.5
27	Expansion Upgrader	A&V	A&V set 40912	19.0
28	Expansion Upgrader	A&V	A&V set 40943	19.0
29	Base Upgrader	A&V	A&V I-21104B Stg2 Disch 18in Pip	18.9
30	Base Upgrader	A&V	A&V I-21104B Stg2 Disch Pipe Sup	18.9
31	Expansion Upgrader	SRC	SRC V-41706 E (Incinerator)	18.8
32	Expansion Upgrader	HMU	HMU PSA Header	18.8
33	Expansion Upgrader	SRC	SRC S-41705 Incinerator stack ou	18.6
34	Base Upgrader	A&V	A&V I-21105 Stg3 Disch 12in Pipe	18.6
35	Chemicals	Utilities	Cooling Tower fan #1 (1-8 W-E)	18.6
36	Chemicals	Styrene	Tanks PP416A	18.6
37	Chemicals	Utilities	Cooling Tower fan #2 (1-8 W-E)	18.6
38	Chemicals	Utilities	Cooling Tower fan #3 (1-8 W-E)	18.5
39	Base Upgrader	A&V	A&V I-21104A Stg2 Disch Pipe Sup	18.5
40	Chemicals	Utilities	Cooling Tower fan #4 (1-8 W-E)	18.5
41	Chemicals	Utilities	Cooling Tower fan #5 (1-8 W-E)	18.5
42	Chemicals	Utilities	Cooling Tower fan #6 (1-8 W-E)	18.5
43	Chemicals	Utilities	Cooling Tower fan #7 (1-8 W-E)	18.5
44	Chemicals	Utilities	Cooling Tower fan #8 (1-8 W-E)	18.4
45	Base Upgrader	COGEN	CGN N-S Pipe Rack	18.3

Order-Ranked Sound Level Contributions at Receptor R04 Shell Canada Ltd. - Scotford with Quest Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
46	Chemicals	Styrene	FV1018	18.2
40	Expansion Upgrader	CTWR	CTWR mtr 54201A	18.0
48	Refinery	Unit 22	Unit 22 Common H Comp E Opening	17.9
49	Expansion Upgrader	CTWR	CTWR mtr54201B	17.8
50	Expansion Upgrader	CTWR	CTWR mtr54201C	17.8
51	Expansion Upgrader	CTWR	CTWR mtr54201D	17.8
52	Expansion Upgrader	RHC	RHC FV-461901	17.4
53	Expansion Upgrader	A&V	A&V I-41103A (3rd stage ejector)	17.4
54	Expansion Upgrader	RHC	RHC Membrane RVS Deck	17.3
55	Expansion Upgrader	RHC	RHC West Mixing Deck	17.2
56	Base Upgrader	HMU	HMU S-24203 Stack Outlet	17.2
50 57	Base Upgrader	RHC	RHC PSA V-22883	17.2
58	Base Upgrader	HMU	HMU S-24103 Stack Outlet	16.9
50 59	Expansion Upgrader	A&V	A&V P-41112B	16.7
59 60	Refinery	Unit 31/32	Unit 30 Comp Bldg N Opening	16.6
61	Expansion Upgrader	A&V	A&V FV-411217	16.6
62	Base Upgrader	COGEN	CGN Deair Stm E Vent 1	16.6
63	Base Upgrader	COGEN	CGN Deair Stm W Vent 1	16.6
64	Refinery	Unit 25	E 2509-A1	16.1
65	Expansion Upgrader	RHC	RHC BBQ Deck	16.1
66	Expansion Upgrader	RHC	RHC Structure H	16.1
67	Chemicals	Styrene	P205S M	16.1
68	Expansion Upgrader	A&V	A&V C-41111 (FD fan)	16.0
69	Base Upgrader	COGEN	CGN Rect Roof Fan 1	15.7
70	Chemicals	Utilities	Utilities Flare Blower	15.7
70	Expansion Upgrader	A&V	A&V support 41009	15.5
72	Base Upgrader	HMU	HMU PSA V-24411	15.4
72	Refinery	Unit 24	E2416-2	15.3
74	Base Upgrader	COGEN	CGN Turb Bldg E Wall	15.2
75	Expansion Upgrader	CTWR	CTWR 54201A	15.1
76	Refinery	Unit 21	H2101 heater wall	15.1
70	Base Upgrader	SRU	SRU PM-21307	15.1
78	Refinery	Unit 24	E2416-1	15.1
70	Chemicals	MEG	MEG CO2 Vent	15.1
80	Base Upgrader	COGEN	CGN E-W Pipe Rack	15.0
81	Expansion Upgrader	A&V	A&V S-41106 (Vac exhaust stack)	15.0
82	Base Upgrader	COGEN	CGN Turb Bldg N Wall	14.9
83	Chemicals	MEG	MEG Compressor Suction	14.8
84	Chemicals	Styrene	FT1007	14.8
85	Base Upgrader	SRU	SRU C-21702 Incin FD Fan Inlet	14.8
86	Refinery	Unit 21	Unit 21 Deaerator	14.6
87	Base Upgrader	COGEN	CGN Rect Roof Fan 2	14.6
88	Base Upgrader	COGEN	CGN Rect Roof Fan 3	14.6
89	Base Upgrader	HMU	HMU PSA V-24411	14.6
90	Expansion Upgrader	RHC	RHC R-421001 Equip Door	14.6

Order-Ranked Sound Level Contributions at Receptor R04 Shell Canada Ltd. - Scotford with Quest Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)	
91	Refinery	Unit 25	C2501 - compressor building N op	14.5	
92	Base Upgrader	HMU	HMU C-24201 Air Inlet	14.5	
93	Expansion Upgrader	A&V	A&V P-41189A	14.4	
94	Expansion Upgrader	HMU	HMU H-44101 E (Heat Columns)	14.4	
95	Expansion Upgrader	CTWR	CTWR 54201B	14.3	
96	Expansion Upgrader	A&V	A&V S-41107 (Atmos exhaust stack	14.3	
97	Base Upgrader	RHC	RHC FV-224008	14.3	
98	Expansion Upgrader	CTWR	CTWR 54201C	14.3	
99	Upgrader	Quest	E-24707B-1	14.2	
100	Expansion Upgrader	CTWR	CTWR 54201D	14.2	
	Sum of all noise contrubutions above (1 to 100)				
	Sum of all remaining noise sources (101 to 2213)				
			Total Sound Pressure Level	43.3	

Order-Ranked Sound Level Contributions at Receptor R10 Shell Canada Ltd. - Scotford with Quest Summertime Conditions, Calm Wind

Order			Equipment Noise Source	Sound Pressure
Rank #	Site	Unit	Description or Tag	Level (dBA)
1	Base Upgrader	A&V	A&V I-21103A Stg1 Disch 42in Pip	30.4
2	Chemicals	MEG	PT-32003	26.1
3	Chemicals	MEG	MEG Compressor Discharge after	23.0
4	Chemicals	Utilities	Utilities De-airator vent	21.8
5	Refinery	Unit 61	Flare	21.8
6	Expansion Upgrader	RHC	RHC R-421001 South Wall	21.8
7	Upgrader	Quest	C-24701 1st Discharge Sect 2c	20.8
8	Base Upgrader	COGEN	CGN HRSG Stack	19.8
9	Chemicals	MEG	TT 3101 Vessel6	19.1
10	Upgrader	Quest	C-24701 1st Discharge Sect 2b	19.0
11	Base Upgrader	SRU	SRU Incin Stack Outlet	18.8
12	Chemicals	MEG	MEG Compressor Suction	18.8
13	Base Upgrader	A&V	A&V I-21103A	18.7
14	Upgrader	Quest	C-24701 1st Discharge Sect 2a	18.5
15	Chemicals	MEG	TT 3101 Vessel4	18.5
16	Chemicals	MEG	TT 3101 Vessel5	18.3
17	Chemicals	MEG	O2 mixbox outlet	18.3
18	Chemicals	MEG	TT 3101 Vessel3	18.0
19	Chemicals	Styrene	Tanks PP416A	17.3
20	Base Upgrader	CTWR	CTWR Cooling Tower E Splash	17.0
21	Base Upgrader	A&V	A&V I-21103B Stg1 Disch 42in Pip	16.6
22	Expansion Upgrader	HMU	HMU S-44103	16.5
23	Refinery	Unit 21	C2104 fan Inlet	16.1
24	Base Upgrader	RHC	RHC PSA V-22883	15.5
25	Chemicals	Styrene	Tanks GZ348H	15.1
26	Chemicals	Utilities	Cooling Tower fan #8 (1-8 W-E)	15.0
27	Chemicals	Utilities	Cooling Tower fan #7 (1-8 W-E)	15.0
28	Expansion Upgrader	CTWR	CTWR 54201 E water splash	14.9
29	Chemicals	Utilities	Cooling Tower fan #6 (1-8 W-E)	14.9
30	Chemicals	Utilities	Cooling Tower fan #5 (1-8 W-E)	14.9
31	Chemicals	Utilities	Cooling Tower fan #4 (1-8 W-E)	14.8
32	Chemicals	Utilities	Cooling Tower fan #3 (1-8 W-E)	14.8
33	Chemicals	Utilities	Cooling Tower fan #2 (1-8 W-E)	14.7
34	Chemicals	MEG	TT 3101 Vessel7	14.7
35	Base Upgrader	SRU	SRU CM-21401 Degasser Motor	14.7
36	Chemicals	Utilities	Cooling Tower fan #1 (1-8 W-E)	14.7
37	Chemicals	Utilities	Utilities Cooling Tower South Sp	14.5
38	Base Upgrader	A&V	A&V I-21104A Stg2 Disch 18in Pip	14.5
39	Chemicals	MEG	MEG CO2 Vent	14.5
40	Base Upgrader	COGEN	CGN Turb Bldg E Wall	14.4
41	Base Upgrader	HMU	HMU S-24203 Stack Outlet	14.3
42	Chemicals	MEG	MEG pipe "A" support 6	14.3
43	Base Upgrader	RHC	RHC PSA V-22783	14.2
44	Chemicals	MEG	TT3101 piping	14.0
45	Chemicals	MEG	MEG PP-3201A M	13.8

Order-Ranked Sound Level Contributions at Receptor R10 Shell Canada Ltd. - Scotford with Quest Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
46	Base Upgrader	HMU	HMU S-24103 Stack Outlet	13.6
47	Chemicals	MEG	TT3101 piping	13.4
48	Chemicals	MEG	TT 3101 Vessel2	13.3
49	Refinery	Unit 20	E-2012 compressor coolant cooler	13.3
50	Chemicals	Styrene	Styrene CWR pipe	13.3
51	Refinery	Unit 31/32	Unit 30 Comp Bldg N Opening	13.1
52	Refinery	Unit 11	Fan Casing C1101	13.0
53	Refinery	Unit 31/32	Regen Blower Fan case	13.0
54	Chemicals	Styrene	P220A M	13.0
55	Chemicals	Utilities	North boiler intake VFD	12.9
56	Base Upgrader	HMU	HMU PSA V-24411	12.9
57	Upgrader	Quest	FN-24703B	12.9
58	Base Upgrader	COGEN	CGN Deair Stm E Vent 1	12.9
59	Base Upgrader	COGEN	CGN Deair Stm W Vent 1	12.9
60	Refinery	Unit 21	C2103 Inlet	12.9
61	Chemicals	Styrene	GZ348CPA1P	12.8
62	Base Upgrader	HMU	HMU PSA V-24411	12.8
63	Base Upgrader	COGEN	CGN N-S Pipe Rack	12.8
64	Expansion Upgrader	SRC	SRC S-41705 Incinerator stack ou	12.6
65	Refinery	Unit 24	C2401 Comp Bldg N open	12.6
66	Upgrader	Quest	E-24706-1	12.6
67	Chemicals	MEG	TT 3101 Vessel1	12.5
68	Upgrader	Quest	E-24707B-1	12.4
69	Chemicals	MEG	TT 3101 Vessel8	12.4
70	Upgrader	Quest	E-24707A-1	12.3
71	Chemicals	MEG	pipes near AS-3203	12.3
72	Upgrader	Quest	C-24701 3rd Discharge	12.3
73	Base Upgrader	HMU	HMU PSA V-24411	12.3
74	Base Upgrader	HMU	HMU PSA V-24411	12.2
75	Upgrader	Quest	C-24701 6th Discharge	12.2
76	Chemicals	MEG	MEG Vessel TT3406 south face	12.2
77	Upgrader	Quest	E-24706-2	12.2
78	Chemicals	Styrene	Tanks PP417A	12.2
79	Base Upgrader	HMU	HMU PSA V-24311	12.1
80	Chemicals	MEG	MEG PP-3204B M	12.1
81	Base Upgrader	HMU	HMU S-24301 PSA Bldg Ridge Vent	12.0
82	Chemicals	MEG	MEG pipe "A" support 5	11.9
83	Chemicals	MEG	TT3101 piping	11.9
84	Upgrader	Quest	E-24706-3	11.9
85	Refinery	Unit 42	Unit 42 Comp Bldg N opening	11.9
86	Chemicals	Styrene	PP215S	11.8
87	Upgrader	Quest	E-24707B-2	11.8
88	Base Upgrader	HMU	HMU PSA V-24411	11.7
89	Upgrader	Quest	E-24707A-2	11.7
90	Base Upgrader	COGEN	CGN Turb Bldg N Wall	11.7

Order-Ranked Sound Level Contributions at Receptor R10 Shell Canada Ltd. - Scotford with Quest Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)	
91	Refinery	Unit 21	H2101 heater wall	11.6	
92	Base Upgrader	HMU	HMU PSA V-24411	11.6	
93	Refinery	Unit 21	H2102 heater wall	11.6	
94	Base Upgrader	HMU	HMU PSA V-24311	11.6	
95	Chemicals	MEG	MEG PP-3214A M	11.6	
96	Upgrader	Quest	C-24701 4th Discharge	11.5	
97	Chemicals	Styrene	FT1007	11.4	
98	Upgrader	Quest	E-24707B-3	11.4	
99	Base Upgrader	CTWR	UPGR Cooling Water Pumphouse OH D	11.3	
100	Upgrader	Quest	E-24707A-3	11.3	
	Sum of all noise contrubutions above (1 to 100)				
	Sum of all remaining noise sources (101 to 2213)				
			Total Sound Pressure Level	38.6	

Table D-3

Order-Ranked Sound Level Contributions at Receptor NCIA 4 Shell Canada Ltd. - Scotford with Quest Summertime Conditions, Calm Wind

Order			Equipment Noise Source	Sound Pressure
Rank #	Site	Unit	Description or Tag	Level (dBA)
1	Base Upgrader	A&V	A&V I-21103A Stg1 Disch 42in Pip	42.8
2	Base Upgrader	A&V	A&V I-21103B Stg1 Disch 42in Pip	41.7
3	Refinery	Unit 61	Flare	37.6
4	Refinery	Unit 31/32	Unit 30 steam vent	35.7
5	Refinery	Unit 31/32	Regen Blower Fan case	34.6
6	Refinery	Unit 61	P6303	33.1
7	Base Upgrader	A&V	A&V I-21103A	32.7
8	Refinery	Unit 51	Util Bldg roof NE Deairerator	31.9
9	Upgrader	Quest	C-24701 1st Discharge Sect 2c	31.0
10	Refinery	Unit 61	P6301	30.4
11	Base Upgrader	A&V	A&V I-21103B	30.3
12	Refinery	Unit 22	P2201A Motor	29.9
13	Refinery	Unit 31/32	H3251 blower fan case	29.5
14	Refinery	Unit 21	Unit 21 Deaerator	29.3
15	Base Upgrader	SRU	SRU Incin Stack Outlet	29.1
16	Chemicals	Utilities	Utilities Cooling Tower South Sp	28.8
17	Refinery	Unit 24	E2416-1	28.1
18	Refinery	Unit 24	E2416-2	27.8
19	Expansion Upgrader	RHC	RHC R-421001 South Wall	27.8
20	Base Upgrader	RHC	RHC PSA V-22883	27.7
21	Refinery	Unit 61	P6147	27.7
22	Base Upgrader	COGEN	CGN HRSG Stack	27.7
23	Base Upgrader	A&V	A&V I-21104B Stg2 Disch 18in Pip	27.7
24	Chemicals	MEG	PT-32003	27.3
25	Base Upgrader	A&V	A&V I-21104B Stg2 Disch Pipe Sup	27.2
26	Refinery	Unit 61	P6140	27.1
27	Refinery	Unit 31/32	H3251 blower motor	27.1
28	Refinery	Unit 61	P6152	27.1
29	Base Upgrader	A&V	A&V I-21104A Stg2 Disch 18in Pip	27.0
30	Refinery	Unit 11	E1119-A1	27.0
31	Refinery	Unit 22	P2201B Motor	27.0
32	Base Upgrader	RHC	RHC Pipe 12in Lagd After HV-2236	27.0
33	Refinery	Unit 41	E4103-5	26.7
34	Base Upgrader	A&V	A&V I-21105 Stg3 Disch 12in Pipe	26.7
35	Refinery	Unit 26	Unit 26 Comp Bldg S wall Vent 2	26.6
36	Refinery	Unit 26	Unit 26 Comp Bldg S wall Vent 5	26.6
37	Refinery	Unit 11	E1122-A2	26.6
38	Refinery	Unit 26	Unit 26 Comp Bldg S wall Vent 4	26.4
39	Base Upgrader	RHC	RHC Pipe 12in Lagd After HV-2226	26.4
40	Base Upgrader	HMU	HMU S-24301 PSA Bldg Ridge Vent	26.4
41	Refinery	Unit 31/32	FV32003	26.3
42	Refinery	Unit 12	E1208-A2	26.1
43	Base Upgrader	HMU	HMU S-24401 PSA Bldg Ridge Vent	26.0
44	Refinery	Unit 11	P1106B Motor	26.0
45	Refinery	Unit 15	C1501 fan inlet	25.9

Order-Ranked Sound Level Contributions at Receptor NCIA 4 Shell Canada Ltd. - Scotford with Quest Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)
46	Refinery	Unit 41	E4103-2	25.8
47	Refinery	Unit 21	C2103 Inlet	25.8
48	Refinery	Unit 21	H2102 heater wall	25.8
49	Refinery	Unit 11	E1124-A2	25.7
50	Base Upgrader	COGEN	CGN Deair Stm W Vent 1	25.7
51	Base Upgrader	COGEN	CGN Deair Stm E Vent 1	25.7
52	Base Upgrader	RHC	RHC E-22512-2	25.7
53	Base Upgrader	HMU	HMU PSA V-24311	25.6
54	Base Upgrader	SRU	SRU PM-21405B	25.6
55	Refinery	Unit 61	PS4 CV's group 1	25.5
56	Refinery	Unit 22	P2201A Gbox	25.4
57	Base Upgrader	HMU	HMU PSA V-24411	25.3
58	Refinery	Unit 22	P2201B Gbox	25.2
59	Refinery	Unit 24	E2422-1	25.1
60	Base Upgrader	SRU	SRU Blower Bldg S Mtr Cool 1	25.1
61	Refinery	Unit 31/32	Regen Blower Motor	25.1
62	Refinery	Unit 61	P6302A	25.1
63	Refinery	Unit 61	P6153	25.0
64	Base Upgrader	A&V	A&V I-21104A Stg2 Disch Pipe Sup	25.0
65	Refinery	Unit 12	E1208-C2	25.0
66	Refinery	Unit 11	E1119-A2	25.0
67	Refinery	Unit 42	H4201 A burner to S	25.0
68	Refinery	Unit 42	H4201 A burner to W	25.0
69	Base Upgrader	HMU	HMU PSA V-24311	24.8
70	Refinery	Unit 42	H4201 B burner to W	24.8
71	Upgrader	Quest	C-24701 1st Discharge Sect 2a	24.8
72	Refinery	Unit 12	E1208-C1	24.7
73	Refinery	Unit 11	P1107A	24.7
74	Refinery	Unit 41	P-4103B Extractor charge pump	24.6
75	Refinery	Unit 41	E4123-2	24.5
76	Refinery	Unit 41	E4103-3	24.4
77	Refinery	Unit 12	E1208-A1	24.3
78	Refinery	Unit 61	P6124A	24.3
79	Refinery	Unit 41	E4123-3	24.3
80	Refinery	Unit 51	Util Building W wall Equip door	24.3
81	Base Upgrader	HMU	HMU PSA V-24411	24.3
82	Base Upgrader	HMU	HMU S-24103 Stack Outlet	24.2
83	Base Upgrader	CTWR	CTWR C-2714C Motor	24.1
84	Base Upgrader	CTWR	CTWR C-2714A Motor	24.1
85	Base Upgrader	RHC	RHC PSA V-22783	24.1
86	Base Upgrader	RHC	RHC E-22512-1	24.0
87	Refinery	Unit 15	Fan Casing C1501	24.0
88	Refinery	Unit 41	P4109A	23.9
89	Base Upgrader	HMU	HMU PSA V-24411	23.9
90	Base Upgrader	HMU	HMU PSA V-24411	23.9

Order-Ranked Sound Level Contributions at Receptor NCIA 4 Shell Canada Ltd. - Scotford with Quest Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)	
91	Refinery	Unit 11	E1121-2	23.8	
92	Refinery	Unit 11	E1127-C1	23.8	
93	Refinery	Unit 22	P2201C Motor	23.8	
94	Refinery	Unit 41	E4123-4	23.7	
95	Refinery	Unit 11	P1108 middle circ reflux Motor	23.6	
96	Upgrader	Quest	C-24701 3rd Discharge	23.6	
97	Refinery	Unit 41	E4123-1	23.6	
98	Chemicals	Utilities	Utilities LP Steam Header	23.6	
99	Base Upgrader	HMU	HMU S-24203 Stack Outlet	23.6	
100	Base Upgrader	HMU	HMU PSA V-24311	23.5	
		Sum of all	noise contrubutions above (1 to 100)	49.6	
	Sum of all remaining noise sources (101 to 2213)				
			Total Sound Pressure Level	51.1	

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Table D-4

Order-Ranked Sound Level Contributions at Receptor NCIA 11 Shell Canada Ltd. - Scotford with Quest Summertime Conditions, Calm Wind

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Order			Equipment Noise Source	Sound Pressure
Rank #	Site	Unit	Description or Tag	Level (dBA)
1	Base Upgrader	A&V	A&V I-21103B Stg1 Disch 42in Pip	30.5
2	Refinery	Unit 61	Flare	23.3
3	Base Upgrader	A&V	A&V I-21103A Stg1 Disch 42in Pip	22.7
4	Expansion Upgrader	RHC	RHC R-421001 South Wall	20.6
5	Base Upgrader	SRU	SRU Incin Stack Outlet	19.2
6	Base Upgrader	A&V	A&V I-21103B	18.8
7	Base Upgrader	COGEN	CGN HRSG Stack	18.6
8	Base Upgrader	A&V	A&V I-21103A	17.6
9	Refinery	Unit 61	P6303	17.1
10	Base Upgrader	A&V	A&V I-21104A Stg2 Disch 18in Pip	16.9
11	Base Upgrader	RHC	RHC Pipe 12in Lagd After HV-2226	16.9
12	Chemicals	MEG	TT 3101 Vessel8	15.6
13	Refinery	Unit 61	P6109A	15.5
14	Base Upgrader	RHC	RHC PSA V-22883	15.2
15	Chemicals	MEG	TT 3101 Vessel1	15.1
16	Chemicals	MEG	TT 3101 Vessel7	14.9
17	Base Upgrader	RHC	RHC PSA V-22783	14.9
18	Base Upgrader	A&V	A&V I-21104A Stg2 Disch Pipe Sup	14.6
19	Refinery	Unit 24	C2401 Comp Bldg N open	14.5
20	Chemicals	MEG	TT 3101 Vessel2	14.5
21	Expansion Upgrader	RHC	RHC Feed Mixing Deck	14.4
22	Refinery	Unit 31/32	Regen Blower Fan case	14.4
23	Base Upgrader	A&V	A&V I-21104B Stg2 Disch 18in Pip	14.2
24	Expansion Upgrader	HMU	HMU S-44103	14.1
25	Base Upgrader	HMU	HMU S-24203 Stack Outlet	13.8
26	Base Upgrader	HMU	HMU S-24103 Stack Outlet	13.8
27	Refinery	Unit 31/32	Unit 30 Comp Bldg N Opening	13.8
28	Expansion Upgrader	RHC	RHC P-42601B	13.7
29	Refinery	Unit 31/32	H-3201 duct sources	13.5
30	Base Upgrader	RHC	RHC Pipe 12in Lagd After HV-2236	13.4
31	Chemicals	Utilities	Utilities De-airator vent	13.3
32	Upgrader	Quest	C-24701 1st Discharge Sect 2c	13.1
33	Refinery	Unit 61	P6140	13.0
34	Expansion Upgrader	SRC	SRC S-41705 Incinerator stack ou	13.0
35	Expansion Upgrader	SRC	SRC V-41706 W (Incinerator)	12.8
36	Base Upgrader	CTWR	CTWR Cooling Tower W Splash	12.7
37	Refinery	Unit 31/32	C-3204A FD Fan Casing	12.3
38	Expansion Upgrader	A&V	A&V support 40949	12.3
39	Refinery	Unit 31/32	C-3204A FD Fan Inlet	12.2
40	Expansion Upgrader	A&V	A&V support 41162	12.2
41	Chemicals	MEG	TT3101 piping	12.0
42	Chemicals	MEG	MEG Compressor Discharge after	11.9
43	Base Upgrader	SRU	SRU PM-21405B	11.8
44	Base Upgrader	SRU	SRU PM-21307	11.4
45	Refinery	Unit 61	P6147	11.3

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Table D-4

Order-Ranked Sound Level Contributions at Receptor NCIA 11 Shell Canada Ltd. - Scotford with Quest Summertime Conditions, Calm Wind

Т

Order			Equipment Noise Source	Sound Pressure
Rank #	Site	Unit	Description or Tag	Level (dBA)
46	Expansion Upgrader	RHC	RHC East Mixing Deck	11.3
47	Expansion Upgrader	CTWR	CTWR Pkg Blr Bldg W OH Door	11.3
48	Base Upgrader	HMU	HMU C-24101 Air Inlet	11.1
49	Base Upgrader	HMU	HMU TK-24101 LO Skid	11.1
50	Refinery	Unit 25	C2501 - compressor building N op	11.0
51	Expansion Upgrader	CTWR	CTWR 54201 W water splash	11.0
52	Base Upgrader	HMU	HMU S-24401 PSA Bldg Ridge Vent	10.8
53	Base Upgrader	A&V	A&V I-21104B Stg2 Disch Pipe Sup	10.6
54	Upgrader	Quest	C-24701 3rd Discharge	10.5
55	Base Upgrader	HMU	HMU PSA V-24411	10.5
56	Refinery	Unit 42	Unit 42 Comp Bldg N opening	10.5
57	Expansion Upgrader	A&V	A&V E-41124 (1st stage condenser	10.4
58	Base Upgrader	SRU	SRU Blower Bldg E Mtr Cool 1	10.3
59	Base Upgrader	HMU	HMU PSA V-24411	10.2
60	Expansion Upgrader	CTWR	CTWR mtr54201D	10.2
61	Expansion Upgrader	A&V	A&V E-41125 (2nd stage condenser	10.2
62	Expansion Upgrader	CTWR	CTWR mtr54201C	10.2
63	Expansion Upgrader	CTWR	CTWR mtr54201B	10.2
64	Upgrader	Quest	E-24707B-3	10.1
65	Upgrader	Quest	FN-24703B	10.1
66	Upgrader	Quest	E-24707A-3	10.1
67	Upgrader	Quest	E-24706-3	9.9
68	Base Upgrader	HMU	HMU PSA V-24411	9.9
69	Expansion Upgrader	A&V	A&V support 41070	9.9
70	Expansion Upgrader	A&V	A&V support 41100	9.9
71	Expansion Upgrader	A&V	A&V support 41131	9.8
72	Expansion Upgrader	A&V	A&V support 40978	9.8
73	Expansion Upgrader	A&V	A&V support 40918	9.8
74	Base Upgrader	HMU	HMU PSA V-24411	9.8
75	Expansion Upgrader	A&V	A&V support 41192	9.8
76	Base Upgrader	HMU	HMU PSA V-24411	9.8
77	Refinery	Unit 21	Unit 21 Deaerator	9.7
78	Refinery	Unit 25	E 2509-A1	9.7
79	Upgrader	Quest	E-24706-2	9.7
80	Base Upgrader	HMU	HMU PSA V-24411	9.7
81	Upgrader	Quest	E-24706-1	9.7
82	Base Upgrader	COGEN	CGN Deair Stm W Vent 1	9.7
83	Base Upgrader	COGEN	CGN Deair Stm E Vent 1	9.6
84	Expansion Upgrader	A&V	A&V C-41111 (FD fan)	9.6
85	Refinery	Unit 21	H2102 heater wall	9.6
86	Base Upgrader	HMU	HMU C-24201 Air Inlet	9.6
87	Base Upgrader	RHC	RHC E-22512-2	9.6
88	Expansion Upgrader	A&V	A&V C-41113 (FD fan)	9.5
89	Upgrader	Quest	E-24707B-2	9.5
90	Upgrader	Quest	E-24707A-2	9.5

Order-Ranked Sound Level Contributions at Receptor NCIA 11 Shell Canada Ltd. - Scotford with Quest Summertime Conditions, Calm Wind

Order Rank #	Site	Unit	Equipment Noise Source Description or Tag	Sound Pressure Level (dBA)	
91	Refinery	Unit 61	P6301	9.5	
92	Chemicals	MEG	TT3101 piping	9.4	
93	Refinery	Unit 31/32	H3251 blower fan case	9.4	
94	Upgrader	Quest	E-24707B-1	9.4	
95	Upgrader	Quest	E-24707A-1	9.4	
96	Base Upgrader	COGEN	CGN Turb Bldg Rect Roof Fan 1	9.3	
97	Base Upgrader	COGEN	CGN Turb Bldg Rect Roof Fan 2	9.2	
98	Expansion Upgrader	A&V	A&V Pipe support from I-41102A	9.1	
99	Expansion Upgrader	A&V	A&V P-41112B	9.0	
100	Chemicals	Utilities	Cooling Tower fan #1 (1-8 W-E)	9.0	
	Sum of all noise contrubutions above (1 to 100)				
	Sum of all remaining noise sources (101 to 2213)				
			Total Sound Pressure Level	36.7	

APPENDIX E Glossary

Shell Canada Ltd. Shell Scotford Quest Carbon Capture and Storage Facility Quest Noise Model Development SLR Project No.: 203.50049.00004

Appendix E – Glossary of Acoustical Terms

A-WEIGHTED SOUND LEVEL OR dBA: A measurement of overall Sound Pressure Level which accounts for the frequency content of the measured sound and assesses it with a frequency response similar to that of the human ear.

AMBIENT OR BACKGROUND NOISE: The noise in the environment, other than the noise from the source of interest.

ATMOSPHERIC ATTENUATION: The effect of sound absorption by moisture in the air.

ATTENUATION: A reduction in sound level that occurs with sound propagation over distance by means of physical dissipation or absorption mechanisms, or a reduction in sound level that occurs by means of noise control measures applied to a sound source.

BARRIER DIFFRACTION OR ATTENUATION: The effect of an acoustical shadow created by building or landform interposed between a source and a receiver.

BROADBAND NOISE: A noise with frequency components distributed over a broad frequency range, e.g. noise from distant road traffic.

C-WEIGHTED SOUND LEVEL OR dBC: A measurement of overall Sound Pressure Level with a frequency response that has essentially no filtering of sound between 50 and 5000 Hz. C-weighted sound levels are a better indicator of the presence of low frequency sound than A-weighted sound levels.

COMPREHENSIVE SOUND LEVEL: A measurement of the overall Sound Pressure Level at a location which includes the effects of all noise sources affecting the location.

DISTANCE DISSIPATION: The natural attenuation of sound with distance caused by geometrical spreading of sound waves.

EQUIVALENT CONTINUOUS SOUND LEVEL OR L_{eq}: A single number descriptor commonly used for environmental noise measurements and criteria. It is used to quantify sound which constantly varies over time, such as that commonly occurring in outdoor environments. It is defined as the average Sound Pressure Level over a specific time period that has the same acoustic energy as the actual fluctuating Sound Pressure Levels during the same time period. Time periods commonly used for L_{eq} measurements and criteria are the daytime (07:00 - 22:00 hrs) and nighttime (22:00 - 07:00 hrs) periods.

FREE SOUND FIELD (FREE FIELD): A sound field in which the effects of obstacles or boundaries on propagating sound are negligible.

FREQUENCY: The number of wave oscillations per second (hertz) of an acoustic pressure wave propagating through the air. The same as the pitch, or highness or lowness of a sound.

GROUND ATTENUATION: The effect of sound absorption by the ground separating the source and receiver.

INCREASE IN SOUND LEVEL: The perceived increase in loudness of a sound does not correspond directly to numerical increases in dBA values. Typically, an increase of less than 3 dBA is barely noticeable, an increase of 5 dBA is noticeable, an increase of 10 dBA is perceived as a doubling in apparent loudness, and an increase of 20 dBA is perceived as a four-fold increase in apparent loudness.

NARROW-BAND: A segment of the frequency spectrum which spans a few hertz or tenths of hertz.

NARROW-BAND SOUND PRESSURE LEVEL: The total Sound Pressure Level of sound components in a specific narrow-band frequency segment. Narrow-band Sound Pressure Levels are used to identify the presence of tonal components in a sound.

OCTAVE: The interval in frequency between two sounds having a frequency ratio of two.

OCTAVE BAND: A segment of the frequency spectrum which spans one octave.

OCTAVE BAND SOUND PRESSURE LEVEL: The total sound pressure level of sound components in a specific octave band.

PINK NOISE: A broadband noise characterized by a spectrum that uniformly decreases by 3 dB/octave with increasing octave band frequency. This noise is characterized by a "hushing" sound.

SOUND LEVEL CONTRIBUTION: The contribution of noise from one or more sources to the overall sound level from all sources affecting a particular location.

SOUND POWER LEVEL: A measurement of the acoustic energy of a sound source, which utilizes a logarithmic scale and which is normally calculated from Sound Pressure Level measurements near the source.

SOUND PRESSURE LEVEL: A physical measurement of sound, which utilizes a logarithmic scale and which quantifies the amplitude or volume of acoustic pressure waves propagating through the air.

SPECTRUM: The quantification of the components of a sound as a function of frequency.

STATISTICAL SOUND LEVEL OR L_n: The proportion of time a sound of interest is present at a specific level. Statistical sound levels are expressed as L_n values, which is the sound level exceeded N percent of the time.

THIRD-OCTAVE: The interval in frequency between two sounds having a ratio of 2 to the one-third power, or approximately 1.26.

THIRD-OCTAVE BAND: A segment of the frequency spectrum which spans one-third octave.

THIRD-OCTAVE BAND SOUND PRESSURE LEVEL: The total sound pressure level of sound components in a specific one-third octave band.

URBAN HUM: The more or less steady, continuous background noise in or near an urban area caused by distant road traffic and urban activity.

APPENDIX F Environmental Noise Descriptors

Shell Canada Ltd. Shell Scotford Quest Carbon Capture and Storage Facility Quest Noise Model Development SLR Project No.: 203.50049.00004

Appendix F – Environmental Noise Descriptors

Environmental noise is typically not steady and continuous, but varies over time. In an rural area, there is usually continuous background noise from distant traffic and community sources that slowly varies with time of day and with changes in atmospheric and/or ground cover conditions. Along with this continuous background noise there are also intermittent, fluctuating, higher-level noises. These are usually associated with local road traffic, nearby community and agricultural activity, and natural sounds.

To account for the time-varying nature of environmental noise, a single number descriptor known as equivalent continuous sound level (L_{eq}) is typically used. This descriptor quantifies sound that varies over time, such as that commonly occurring in outdoor environments. L_{eq} is the average sound level (based on acoustical energy) of time varying sound measured over a specific time period. Time periods commonly used for L_{eq} sound levels are 1-hour, daytime (07:00 to 22:00), nighttime (22:00 to 07:00) and 24-hours. L_{eq} is generally accepted and used for environmental noise measurements and criteria.

Sound is acoustic pressure waves that propagate through air. Because the range of audible sound pressures is very wide, sound is measured on a logarithmic scale in units of decibels (dB). The logarithmic scale compresses the range of audible sound pressures into a range that approximately corresponds to human hearing perception. When comparing sound level values, the following rule of thumb may be used:

- A difference in sound level of 3 dB is barely perceptible to human hearing
- A difference of 5 dB is noticeable

Farm in Valley

Urban Residential

Suburban Residential at City Outskirts

- A difference of 10 dB corresponds to a halving or doubling in perceived loudness
- A difference of 20 dB corresponds to a four-fold difference in perceived loudness.

Sound level values for environmental noise are normally A-weighted and expressed in units of A-weighted decibels (dBA). The A-weighting accounts for the frequency content of the sound and assesses it with a frequency response similar to that of human hearing. Figure F1 shows examples of typical A-weighted sound levels for a variety of noise sources ranging from very quiet to extremely loud.

In environmental noise assessments, the daytime and nighttime periods are normally differentiated, especially for areas where ambient sound levels may be affected by community or traffic noise sources. Ambient sound levels are typically higher during the daytime as a result of increased community and traffic activity. During the nighttime, ambient sound levels are usually lower because community and traffic activity is reduced. In order to understand range of sound levels typically occurring in outdoor environments, Table F1 shows examples of sound level measured at various outdoor locations ranging from a rural setting to an urban environment.

Location Description	Sound	Sound Level (dBA)	
	Daytime	Nighttime	

35 - 45

42 - 58

48 - 59

29 - 37

35 - 45

45 - 57

Table F1: Examples of Sound Levels Measured at Various Outdoor Locations

(Harris, C.M., ed., Handbook of Noise Control, Second Edition, McGraw-Hill, 1979, p. 35-11)

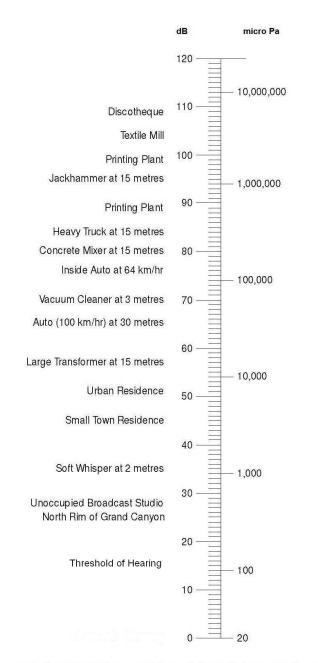


Figure F1: Typical A-weighted Sound Levels for Various Noise Sources

Relation between sound pressure in pascals and Sound Pressure Level in decibels re 20 micropascals. Also shown are typical values of A-weighted sound level of various sources of noise.

(Harris, C.M., ed., Handbook of Noise Control, Second Edition, McGraw-Hill, 1979, p. 2-10)

APPENDIX G Outdoor Sound Propagation

Shell Canada Ltd. Shell Scotford Quest Carbon Capture and Storage Facility Quest Noise Model Development SLR Project No.: 203.50049.00004

Appendix G – Outdoor Sound Propagation

Outdoor sound propagation between a sound source and a receptor is affected by several sound attenuation mechanisms. These include the following:

- Distance dissipation: sound naturally decreases with increasing distance from a source
- Ground attenuation: sound is absorbed by the ground that it passes over
- Atmospheric attenuation: sound is absorbed by the atmosphere it passes through
- Barrier attenuation: sound can be blocked by physical barriers (e.g. buildings or hills)
- Sound is affected by wind gradients: a distant noise source will be louder under downwind conditions than it will be under calm conditions; a distant source will be quieter under upwind conditions than it will be under calm conditions.
- Sound is affected by temperature gradients: a distant noise source will be louder under atmospheric inversion conditions than it will be under neutral conditions; a distant source will be quieter under atmospheric lapse conditions than it will be under neutral conditions.

Temperature and relative humidity do have effects on some of these sound attenuation mechanisms, however they do not have specific sound propagation effects associated with them.

Off-site ground cover in the study area is rough fields. This type of ground cover would be moderately sound-absorptive during summer conditions. However during the winter, variations in the sound absorption may occur with different ground surface conditions (*e.g.* frozen ground or crusty snow - reflective; soft, fresh snow - absorptive).

On-site ground cover consists of hard sound-reflective ground (asphalt and concrete), and sound barrier/screening objects such as buildings, vessels, structures, and equipment. The barrier/screening objects can provide significant sound attenuation if they block the line of sight between the source and receptor.

The effects of wind gradients on outdoor sound propagation can cause variations in the sound level of a distant facility. Similar effects are caused by temperature gradients in the atmosphere. The sound level variations caused by wind and temperature gradients are most pronounced for large source/receptor distances. Sound from a distant facility which propagates in a downwind direction (and/or during atmospheric inversion conditions) results in higher sound levels at a receptor than for calm conditions and a neutral atmosphere. This effect is caused by downward refraction of sound rays as they propagate through the atmosphere. Conversely, sound propagating in an upwind direction (and/or during lapse conditions in the atmosphere) is refracted upwards, which results in lower sound levels at the receptor. Sound propagating in a crosswind direction (and a neutral atmosphere) does not exhibit refraction effects and is essentially the same as sound propagation during calm conditions and a neutral atmosphere.



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Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Number	
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Sherritt International

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

If you have any questions, please call Laurie Danielson @ 780.992.1463

Input Description	Member Site Comments
Confirmation that site has implemented a best	The site has implemented this standard and
management practice to address environmental	Code of Practice and has previously been
noise as per NCIA Noise Management Plan	submitted to the NCIA.
Standard 2010-003 issued 3-Sep-10, revised 5-	
Mar-13, revised 14-Apr-14, revised 31-Mar-16	There have been no updates to the Code of
including the Procedure/Practice/Standard	Practice in 2016
reference.	
Note, if you have not provided an electronic	
copy of your site plan to NCIA, please do so.	
Provide a summary of any monitoring (fence	No fence line monitoring completed in 2016.
line outward completed in 2016.	
-	
Note, you are not required to conduct any off-	
site monitoring.	
Disclose any improvements/corrective actions	None in 2016.
implemented in 2016 or status thereof that	
would impact the noise level output for your	
site (either up or down).	
Did those changes result in a requirement to	
update your site noise model?	
If so, have you provided your updated site	
model to SLR Consulting for incorporation into	
the NCIA Regional Noise Model as per the	
process outlined for this purpose?	

Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Number	
Noise Management Plan Reporting Requirements as per Section 5.4 of this Standard		Rev. Date 31-March 2016	Rev. O

Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down).	
Will these changes result in a requirement to update your site noise model?	
If so, when do you anticipate having an updated site model available?	
Disclose any audit/self-assessment evaluation (qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan in 2016.	None completed.
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	No noise complaints received in 2016.

This information is being collected as per the NMP Standard 2010-003 Revised 31-March-2016. All information provided will be disclosed to the AER as part of the required NCIA Annual Reporting on the Regional Noise Management Plan.

Further, the Annual Report will be a public document available on our website once finalized.

Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Number	
Noise Management Plan Reporting Requirements as per Section 5.4 of this Standard		Rev. Date 31-March 2016	Rev. 0

Umicore Canada:

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

If you have any questions, please call Laurie Danielson @ 780.992.1463

Input Description	Member Site Comments
Confirmation that site has implemented a best	Code of Practice (COP-323-7) Noise Exposure
management practice to address environmental	Management Plan included in the Umicore
noise as per NCIA Noise Management Plan	Canada Inc. Management System.
Standard 2010-003 issued 3-Sep-10, revised 5-	
Mar-13, revised 14-Apr-14, revised 31-Mar-16	Reference to 'environmental noise' included in
including the Procedure/Practice/Standard	the Umicore Canada Inc. Air Quality
reference.	Management Program (COP-319-2)
Note, if you have not provided an electronic	
copy of your site plan to NCIA, please do so.	
Provide a summary of any monitoring (fence	Not applicable – noise monitoring conducted
line outward completed in 2016.	inside the plant from an industrial hygiene
	perspective
Note, you are not required to conduct any off-	
site monitoring.	
Disclose any improvements/corrective actions	Management of Change (MOC) program
implemented in 2016 or status thereof that	includes elements to identify potential changes/
would impact the noise level output for your	impacts with respect to noise exposure.
site (either up or down).	
	Nitrogen Generation Skid commissioned and in
Did those changes result in a requirement to	service with average db levels of 76.9 in an
update your site noise model?	enclosed room.
If so, have you provided your updated site	No other changes made in 2016 that would
model to SLR Consulting for incorporation into	impact noise levels.
the NCIA Regional Noise Model as per the	*
process outlined for this purpose?	

Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Number	
Noise Management Plan Reporting Requirements as per Section 5.4 of this Standard		Rev. Date 31-March 2016	Rev. O

Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down). Will these changes result in a requirement to update your site noise model?	None to disclose at this time.
If so, when do you anticipate having an updated site model available?	
Disclose any audit/self-assessment evaluation (qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan in 2016.	Not applicable – noise monitoring conducted inside the plant from an industrial hygiene perspective
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	Did not receive any noise complaints in 2016

This information is being collected as per the NMP Standard 2010-003 Revised 31-March-2016. All information provided will be disclosed to the AER as part of the required NCIA Annual Reporting on the Regional Noise Management Plan.

Further, the Annual Report will be a public document available on our website once finalized.

Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Number	
Noise Management Plan Reporting Requirements as per Section 5.4 of this Standard		Rev. Date 31-March 2016	Rev. O

Value Creation Inc.

Note, please provide as much detail as you can for the following, attaching any clarifying or required documents with your submission.

If you have any questions, please call Laurie Danielson @ 780.992.1463

Input Description	Member Site Comments
Confirmation that site has implemented a best	Not applicable. There was no construction or
management practice to address environmental	operations during 2016.
noise as per NCIA Noise Management Plan	
Standard 2010-003 issued 3-Sep-10, revised 5-	
Mar-13, revised 14-Apr-14, revised 31-Mar-16	
including the Procedure/Practice/Standard	
reference.	
Note, if you have not provided an electronic	
copy of your site plan to NCIA, please do so.	
Provide a summary of any monitoring (fence	Not applicable.
line outward completed in 2016.	
Note, you are not required to conduct any off-	
site monitoring.	
Disclose any improvements/corrective actions	
implemented in 2016 or status thereof that	Not applicable.
would impact the noise level output for your	11
site (either up or down).	
Did those changes result in a requirement to	
update your site noise model?	
updute your site noise model.	
If so, have you provided your updated site	
model to SLR Consulting for incorporation into	
the NCIA Regional Noise Model as per the	
process outlined for this purpose?	

Northeast Capital Industrial Association	NCIA Standards and Guidelines	Document Number	
Noise Management Plan Reporting Requirements as per Section 5.4 of this Standard		Rev. Date 31-March 2016	Rev. O

Disclose any improvements/projects that are approved for 2017 that would impact the noise level output for your site (either up or down). Will these changes result in a requirement to update your site noise model? If so, when do you anticipate having an updated site model available?	Not applicable.
Disclose any audit/self-assessment evaluation (qualitative evaluation only, with senior site leader sign-off) completed for your site noise management plan in 2016.	Not applicable.
Provide a Noise Complaint summary for all noise complaints received in 2016 including any actions taken to address them.	Not applicable.

This information is being collected as per the NMP Standard 2010-003 Revised 31-March-2016. All information provided will be disclosed to the AER as part of the required NCIA Annual Reporting on the Regional Noise Management Plan.

Further, the Annual Report will be a public document available on our website once finalized.