

APPENDIX H

Environmental Noise Impact Assessment



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Proposed Extractive Industry (Sand Quarry)
"Ballina Sands Quarry"
Newrybar Swamp Road, Lennox Heads
(Lot 32 DP1151612)

ENVIRONMENTAL NOISE IMPACT ASSESSMENT

Prepared For:

Ballina Sands Pty Ltd C/- Ardill Payne and Partners

5 March 2013

crgref: 10453a report rev.1



1.0 INTRODUCTION

This report is in response to a request by Ardill Payne and Partners on behalf of Ballina Sands Pty Ltd for an environmental noise impact assessment of a proposed sand quarry at Lennox Heads. The report responds to the Noise and Vibration Section of the Director General Requirements of The NSW Department of Environment, Climate Change and Water (DECC) dated 15th November 2012. Refer to Appendix A for an extract of the Director General Requirements document.

In undertaking the above, noise monitoring was conducted, and through modelling, predictions of potential noise emissions were produced. Based upon the predicted impact noise levels, recommendations regarding acoustic treatments and management principles have been specified.

2.0 SITE AND DEVELOPMENT DESCRIPTION

The subject site is described as Lot 32 DP1151612 and is currently used for cane farming. Refer to Appendix A of this report for the site location.

The proposal is to operate a sand quarry at the above mentioned parcel of land with the extraction of sand up to a maximum of 610,000m³ over the life of the quarry at an annual rate of less than 80,000m³. The life of the quarry is anticipated to be between 5 and 15 years. Refer to Appendix B of this report for quarry plans.

Activities will initially include the stripping of top soil for minor site filling and construction of onsite earth batters / mounds for noise and visual screening (construction activities). Extraction of sand (operational) will be undertaken by excavators and a front end loader and will be stockpiled and loaded into haulage trucks for dispatch to markets. Equipment which will be used (front end loader, dump trucks and excavators which are all new equipment) will include the following:

- Front end loader;
- Two excavators (worst case);
- Dump trucks;
- Water truck;

- Third party haulage trucks (truck and dog trailer);
- Site vehicles; and
- Mobile pumping equipment / generators.

Generally, there is only one excavator operating at a time. At exceptionally busy times two excavators could be used but this would be infrequently for short durations. Sand is dug out of the pit and stockpiled on a bench. Lime is then spread over the surface of the stockpile using the excavator bucket. Mixing occurs by either turning the stockpile over with an excavator or loading into dump truck (with excavator) for transport to another stockpile location on site. Then, testing is undertaken and additional lime is mixed as required to stockpiles. Once stockpiled and treated a loader is used to load onto road trucks.

Onsite activity has the potential to impact surrounding noise sensitive receivers. Such activities have been assessed to determine likely acoustic treatments, if required, to ensure the acceptable noise amenity can be achieved at the surrounding noise sensitive receivers.

Hours of operation will be between 7am and 6pm Monday to Friday and 8am to 1pm on Saturday. One to two onsite plant operators and a site foreman will be employed at the site. The office will primarily rely on solar power for supply of electricity to the office building. A backup generator may be used on occasion (for around 5 minutes per day).



The nearest receivers to the sand quarry (refer to Appendix A for the location of noise sensitive receivers) are as follows:

- Receiver R1: Dwelling to the east (approximately 80m away);
- Receiver R2: Dwellings to the east across Newrybar Swamp Rd (approximately 130m away);
- Receiver R3: Dwelling to the south (approximately 80m away);
- Receiver R4: Dwellings to the southwest (approximately 600m away);
- Receiver R5: Dwellings to the west (approximately 500m away); and
- Receiver R6: Dwellings to the northwest (approximately 600m away).

3.0 AMBIENT NOISE SURVEY

3.1 Instrumentation

The following equipment was used to record existing ambient background noise levels and existing sand quarry noise levels at the subject site locale:

- Rion NC 73 Calibrator;
- · Rion NL 21 Environmental Noise Logger; and
- Rion 29E Octave Band Sound Level Meter.

All instrumentation used in this assessment hold current calibration certificate from a certified NATA calibration laboratory.

3.2 Unattended Measurement Methodology (Background Levels at Residential Receivers)

A logger was located at the western site boundary of No. 61 Glenross Drive, which is due west of the subject site and is a residential street with no through access and therefore has minimal road traffic. The location was chosen to minimise noise interference of the existing sand quarry operations directly to the north of the subject site. The microphone was in a free-field location approximately 1.2m above ground. Refer to Figure 2 in Appendix A for the logger location.

The logger was set to record noise statistics in 15 minute blocks continually between Monday 14/03/11 to Monday 21/03/11. All noise measurements were conducted generally in accordance with AS 1055:1997 – "Acoustics-Description and measurement of environmental noise".

The operation of the sound level logging equipment was field calibrated before and after the measurement session and was found to be within 0.2dB of the reference signal.

Daily weather observations were obtained from the Bureau of Meteorology's website (http://www.bom.gov.au/) at the Ballina weather station, which is approximately 6km south of the subject site. Weather conditions during the noise monitoring period were generally fine with the exception of light rain periods on Sunday 20/03/2011 and Monday 21/03/02011, a temperature range between 16 and 28°C, relative humidity between 60 and 95% and average wind speeds generally at or below approximately 5m/s. Refer to Appendix C for daily weather observations.

Measurement data for Sunday 20/03/2011 and Monday 21/03/02011 have been excluded from the results as presented in Table 1 below. We also note that the proposed quarry will not operate on Sundays; hence ambient levels on Sundays would not need to be included for calculation of the Rating Background Levels.



3.3 Unattended Measurement Results

Table 1 below presents the ambient noise levels from the unattended logger location. Graphical presentation of the measured levels is presented in the Appendix C to this report.

Background Noise Levels	Backg	round Level LA	90 dB(A)	Amb	ient Level LAeq	dB(A)
Background Noise Levels	7am-6pm	6pm-10pm	10pm-7am	7am-6pm	6pm-10pm	10pm-7am
Monday 14/03/2011	38	44	38	55	51	43
Tuesday 15/03/2011	36	41	38	56	46	44
Wednesday 16/03/2011	37	39	39	57	47	44
Thursday 17/03/2011	35	39	37	54	45	43
Friday 18/03/2011	36	40	37	51	46	-44
Saturday 19/03/2011	36	38	37	50	48	45
Rating Background Levels	36	39	38	54	47	44

Table 1: Measured ambient noise levels at the unattended logger location.

3.4 Attended Measurement Methodology

Attended measurements were conducted of equipment used at the existing sand quarry directly north of the site, and ambient noise levels were conducted at the logger location on Monday 14/03/11 between 1am and 3pm and Tuesday 14/02/2012 between 11am and 2pm. Near field measurements of onsite equipment and background L_{A90} measurements were conducted with a Rion 29E Octave Band Sound Level Meter over the octave band centre frequencies between 31.5 Hz to 8,000 Hz.

Measurements were conducted in "A" Weight, "Fast" Response with the microphone in a free-field location approximately 1.5m above ground and pointing towards the noise source. Measured levels were then converted to Linear Sound Power Levels for application in the adopted noise model (PEN3D). For the calculated sound power levels refer to Section 5 of this report.

Measurements were conducted generally in accordance with Australian Standard AS 1055:1997 – "Acoustics-Description and measurement of environmental noise". The operation of the sound level equipment was field calibrated before and after the measurement session, with no significant drift from the reference signal recorded.

Weather conditions during the survey periods were fine and clear with wind speeds less than 5m/s.

E continue and	Distance To			SPL H	. Octave	Band C	Centre F	requenc	eies dB(4)	
Equipment	Source	31.5	63	125	250	500	1k	2k	4k	8k	AP
HL760-7 Loader	27m	25	45	53	50	51	49	47	44	36	58
JS220 LC Excavator	6m	33	55	64	65	71	68	67	66	63	76
MT 31 Haul Truck	5m	30	51	56	54	60	61	60	56	52	66
Truck on Haul Rd	3m	34	47	57	62	68	68	68	65	57	74
Water Pump	2m	42	48	62	63	70	75	78	74	64	82
Generator	3m	54	65	74	79	77	71	69	64	58	83

Table 2: Attended measurement results.

From onsite observations at the logger location and surrounding noise sensitive receivers the ambient noise environment is comprised of distant road traffic noise along the Pacific Highway and Ross lane, intermittent insect and cicada noise and bird song. As noted earlier, the existing generator will not be the primary source of electricity supply to the site. The proposed site will primarily utilise solar power, with the generator only needed for around 5 minutes per day which approximates to around ½ an hour per week during peak demands requirements.



4.0 NOISE CRITERIA

4.1 Noise Criteria for Quarry Activity Noise

Quarry activity noise impacting the surround noise sensitive receivers is regulated by the "NSW Industrial Noise Policy". The assessment procedure has the following components:

Control of intrusive noise impacts – The limit criteria for this assessment is as follows: $L_{Aeq, 15 \text{ min}} \le \text{rating background level}^1 + 5 \text{ dB};$

Daytime (7am – 6pm Mon to Sat; 8am – 6pm Sun) (RBL + 5) dB(A) L_{cq}.

• Evening (6pm - 10pm) (RBL + 5) dB(A) L_{eq} .

Night (the remaining periods) (RBL + 5) $dB(A) L_{eq}$.

• Maintaining noise level amenity for residential premises. This is achieved by ensuring that the proposal complies with the noise limit criteria set in Table 2.1 of the Policy. If we assume that the area is within a Rural Area given that the surrounding land is comprised of predominantly agricultural cane farming activities (as defined in the Policy), the following applies:

		se levels from industri		Sept.
Type of Receiver	Indicative Noise Amenity Area	Time of Day	d	I L Noise Level, B(A) n Section 2.2.1)
(see	Notes in Section 2.2.	1)	Acceptable (See Note 11)	Recommended Maximum (See Note 11)
Residence	Rural	Day	50	55
		Evening	45	50
		Night	40	45
	Suburban	Day	55	60
	X = 1	Evening	45	50
		Night	40	45
	Urban	Day	60	65
		Evening	50	55
		Night	45	50

Table 3: Amenity Criterion Prescribed in the New South Wales "Industrial Noise Policy".

By considering the measured background noise levels presented in Table 1 of Section 3.3, we recommend the following noise limits for offsite commercial activities:

• Daytime (7 am - 6 pm Mon-Sat; 8 am - 6 pm Sun) 41 (RBL 36 + 5) dB(A) L_{eq} .

As hours of operation will be between 7am and 6pm Monday to Friday and 8am to 1pm on Saturday only the daytime criteria applies to the proposed sand quarry.

Hence, the evening, night-time and sleep disturbance noise criterion are not required to be addressed.

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¹ The rating background level is the overall single figure background level representing each assessment period (day/evening/night over the whole monitoring period.



4.2 Noise Criteria for Vehicle Movements Generated by the Development

Assessment of potential noise impacts resulting from increased traffic noise on the existing road network is assessed in accordance with the "NSW Road Noise Policy" as presented below.

We note that Newrybar Swamp Road is classified as a Sub-arterial Road.

Road	Type of project/land use	Assessment	riteria – dB(A)
category		Day (7 a.m.–10 p.m.)	Night (10 p.m7 a.m.)
Freeway/ arterial/ sub-arterial	Existing residences affected by noise from new freeway/arterial/sub-arterial road corridors	L _{Aeq, (15 hour)} 55 (external)	L _{Aeq} , (9 hour) 50 (external)
roads	Existing residences affected by noise from redevelopment of existing freeway/arterial/sub-arterial roads	L _{Aeq, (15 hour)} 60 (external)	LAeq. (9 hour) 55 (external)
	Existing residences affected by additional traffic on existing freeways/arterial/sub-arterial roads generated by land use developments		
Local roads	Existing residences affected by noise from new local road corridors	L _{Aeq. (1 hour) 55} (external)	LAeq. (1 hour) 50 (external)
	Existing residences affected by noise from redevelopment of existing local roads		
	Existing residences affected by additional traffic on existing local roads generated by land use developments		

Table 4: Noise limit criteria for road traffic noise.



4.3 Construction Noise Criteria

The New South Wales "Interim Construction Noise Guideline" provides the following guidance in relation to construction noise:

Time of day	Management level	How to apply
Recommended standard hours: Monday to Friday 7 am to 6 pm Saturday 8 am to 1 pm No work on Sundays or public holidays	Noise affected RBL + 10 dB	The noise affected level represents the point above which there may be some community reaction to noise. • Where the predicted or measured LAeq (15 min) is greater than the noise affected level, the proponent should apply all feasible and reasonable work practices to meet the noise affected level. • The proponent should also inform all potentially impacted residents of the nature of works to be carried out, the expected noise levels and duration, as well as contact details.
	Highly noise affected 75 dB(A)	The highly noise affected level represents the point above which there may be strong community reaction to noise. • Where noise is above this level, the relevant authority (consent, determining or regulatory) may require respite periods by restricting the hours that the very noisy activities can occur, taking into account: 1. times identified by the community when they are less sensitive to noise (such as before and after school for works near schools, or mid-morning or mid-afternoon for works near residences 2. if the community is prepared to accept a longer period of construction in exchange for restrictions on construction times.
Outside recommended standard hours	Noise affected RBL + 5 dB	 A strong justification would typically be required for works outside the recommended standard hours. The proponent should apply all feasible and reasonable work practices to meet the noise affected level. Where all feasible and reasonable practices have been applied and noise is more than 5 dB(A) above the noise affected level, the proponent should negotiate with the community. For guidance on negotiating agreements see section 7.2.2.

Due to the broad range of sensitivities that commercial or industrial land can have to noise from construction, the process of defining management levels is separated into three categories. The external noise levels should be assessed at the most-affected occupied point of the premises:

- industrial premises: external L_{Aeq (15 min)} 75 dB(A)
- offices, retail outlets: external L_{Aeq (15 min)} 70 dB(A)
- other businesses that may be very sensitive to noise, where the noise level is project specific as discussed below.

Based upon the criterion presented above and the measured background levels (refer to Section 3.3 of this report) the following levels apply to the construction phase:

Receiver Type	Noise Limit Criterion LAeq dB(A)
Surrounding Residential Dwellings	"noise affected" level 46 (Background RBL 36 + 10 dB(A))
Surrounding Residential Dwellings	"highly noise affected" level 75 dB(A)

Table 5: Construction activity noise limits.

It is also noted that Australian Standard AS 2436 – 1981 "Guide to noise control on construction, maintenance and demolition sites" provides extra guidance for management of on-site noise.



5.0 CALCULATIONS & RESULTS

5.1 Assumed Noise Source Levels

Noise source levels used in the assessment have been collected from attended measurements (refer to Section 3.3 of this report).

It is noted that a source height of 2.5m has been assumed for the onsite mobile plant with the exception of the water pump and electric generator which were incorporated into the model with a 1m source height. Measured "A" Weight sound pressure dB(A) levels have been converted into sound power dB (Linear) levels for use in the 3D noise model.

A adinida //NI in Commo	Sound Powe	er Level SWL
Activity/Noise Source	dB(A)	dB(Linear)
HL760-7 Loader (line source in noise model)	95	110
JS220 LC Excavator (point source for two plant in noise model)	99	109
MT 31 Haul Truck (line source in noise model)	88	101
Truck filled with sand leaving site (line source in noise model)	91	97
Water Pump (point source for one plant in noise model)	95	98
Generator (point source for one plant in noise model)	100	112

Table 6: Typical noise source levels associated with the operation of a sand quarry.

From the measurement results and observations taken during measurements, the above equipment was not found to display any tonal, impulsive or low frequency noise characteristics during normal operations at the existing sand mine operation. Given the sand mine will operate during the daytime only, adjustments for intermittent noise do not need to be considered.

5.2 Modelled Quarry Activity Noise Impact Levels

5.2.1 Noise Prediction Model

The PEN3D General Prediction Model (GPM) is based on the method contained in the book "Engineering Noise Control - Theory and Practice" by David Bies & Colin H Hansen of the Department of Mechanical Engineering, University Of Adelaide, Publisher Unwin Hyman 1988. Chapter 5.9 Pages 117 to 127 describes the model.

The basic equation adopted by the GPM is:

 $Lp = Lw - 20 \log 10(r) - 10 \log 10(4\pi) + AE$

Where: Lp is the sound pressure level at an observer

Lw is the sound power level of the source

20 log10r - 10log10(4PI) is the Distance attenuation

AE is the excess attenuation factors and is determined as the sum of the contributions

Refer to Appendix C for a detailed explanation of the Pen3D model and the attenuation factors.



5.2.2 Meteorology

The following is a paraphrased extract from the "NSW Industrial Noise Policy", Section 5.0:

"When wind near the ground increases its speed it can increase ambient noise levels by rustling foliage and creating turbulence when passing over or around structures. At higher wind speeds, the noise produced by wind will drown out noise from most industrial and transportation sources. A default wind speed of 3 m/s (at 10m height) is proposed for assessing noise impacts caused by gradient winds. This wind speed can noticeably increase noise received down-wind of a noise source, but may not increase ambient noise levels to the point where they mask noise from the source and make it unnoticeable. A 10m wind of 3m/s is also unlikely to be associated with near-surface winds of a strength able to cause increased ambient noise levels that would mask increased levels of noise from the source.

Wind is considered to be a feature where source-to-receiver wind speeds (at 10m height) of 3 m/s or below occur for 30 per cent of the time or more in any assessment period (day, evening, night) in any season."

Wind rose data for both 9am and 3pm was obtained from the Ballina weather station, which is approximately 6km south of the subject site (refer to Appendix C of this report for wind rose data sheets). The data indicates that monthly wind does not occur for greater then 30% at or below 3m/s (approximately 10 km/hr) in a source to receiver directional wind.

Further, as the quarry will only be operating during the daytime period, temperature inversions have not been assessed.

5.2.3 Predicted Impact Levels

Based upon the location of the proposed onsite activities in relation to surrounding noise sensitive dwellings, we predict the following façade corrected operational noise impact levels as presented in Table 7 below and over the page.

The predicted levels assume that the recommended treatments detailed in Section 6 are incorporated into the development. For PEN3D point source calculations at each receiver, impact levels from each piece of equipment and the locations of equipment used in the model refer to Appendix C.

Operational Noise Impacts

Receiver Location	Noise Criterion dB(A)	Predicted Noise Impact Levels – (Calm Conditions) dB(A)
Initial Pit Operations at North End of Si	te	
Receiver R1 Due East		41
Receivers R2 Due East Across Road		38
Receiver R3 Due South	41	41
Receivers R4 Due Southwest	41	33
Receivers R5 Due West		36
Receivers R6 Due Northwest		37
Pit Operations at Southeast Corner of Si	te Nearest Receivers 1 to 3	-1
Receiver R1 Due East		41
Receivers R2 Due East Across Road		38
Receiver R3 Due South		40
Receivers R4 Due Southwest	41	33
Receivers R5 Due West		36
Receivers R6 Due Northwest		37

Table 7 (P9-10): Predicted noise impact levels at surrounding noise sensitive dwellings.



Operational Noise Impacts

Receiver Location	Noise Criterion dB(A)	Predicted Noise Impact Levels – (Calm Conditions) dB(A)
Pit Operations at Southern Boundary Ne	arest Receiver 3	
Receiver R1 Due East		41
Receivers R2 Due East Across Road		39
Receiver R3 Due South		41
Receivers R4 Due Southwest	41	37
Receivers R5 Due West		40
Receivers R6 Due Northwest		39
Pit Operations at Northwest Corner of Si	ite Nearest Receivers 5 and 6	1000
Receiver R1 Due East		41
Receivers R2 Due East Across Road		39
Receiver R3 Due South		39
Receivers R4 Due Southwest	41	37
Receivers R5 Due West		41
Receivers R6 Due Northwest		39
Pit Operations at Southwest Corner of Si	te Nearest Receivers 4 and 5	
Receiver R1 Due East		41
Receivers R2 Due East Across Road		38
Receiver R3 Due South	41	41
Receivers R4 Due Southwest	41	38
Receivers R5 Due West		41
Receivers R6 Due Northwest		39

Table 7 (P9-10): Predicted noise impact levels at surrounding noise sensitive dwellings.

For construction activities such as construction of the recommended earth batters / mounds and internal haul roads we have assumed that the two excavators, loader and haul trucks will be utilised. Based upon the location of onsite construction activities in relation to surrounding noise sensitive dwellings, we predict the following façade corrected noise impact levels as presented in Table 8. For PEN3D point source calculations refer to Appendix C of this report.

Construction Noise Impacts

Receiver Location	Noise Criterion dB(A)	Predicted Noise Impact Levels – (Calm Conditions) dB(A)
Construction Operations at Southeast Si	te Boundary without Earth Mou	unds
Receiver R1 Due East		55
Receivers R2 Due East Across Road	Noise Affected: 46	48
Receiver R3 Due South		54
Receivers R4 Due Southwest	Highly Noise	36
Receivers R5 Due West	Affected: 75	36
Receivers R6 Due Northwest		35
Construction Operations along Southern	Site Boundary without Earth N	Mounds
Receiver R1 Due East		53
Receivers R2 Due East Across Road	Noise Affected: 46	48
Receiver R3 Due South		56
Receivers R4 Due Southwest	Highly Noise	36
Receivers R5 Due West	Affected: 75	37
Receivers R6 Due Northwest		35
Construction Operations at Northwest Si	te Boundary at Road and Stock	pile Area
Receiver R1 Due East		39
Receivers R2 Due East Across Road	Noise Affected: 46	37
Receiver R3 Due South		40
Receivers R4 Due Southwest	Highly Noise	35
Receivers R5 Due West	Affected: 75	39
Receivers R6 Due Northwest		40

Table 8: Predicted construction noise impact levels at surrounding noise sensitive dwellings.



5.3 Predicted Noise Impacts from Additional Traffic on the Existing Road Network

Haul trucks leaving the quarry will head south along Newrybar Swamp Road and then turn either left or right onto Ross Lane for access to the Coast Road (due east) or the Pacific Highway (due west). The haulage route will be the same as currently utilised by the existing quarry located directly to the north if the subject site.

Estimated maximum daily haulage is predicted to be 2,000m³ per day (100 truckloads) or 200 movements per day (100 trucks entering and 100 leaving the site, which is equivalent to 18 vehicle movements per hour).

From counts provided by Ardill Payne and Partners Newrybar Swamp Road carries in the order of 610 vehicles per day with a peak hourly volume of approximately 86 vehicles. Ardill Payne and Partners indicate that a high number of vehicles using Newrybar Swamp Road would be haulage vehicles entering and leaving the existing sand quarries.

Road traffic noise modelling was conducted using PEN3D, which is based upon the "CoRTN" (Control of Road Traffic Noise) method produced by the UK Department of Transport 1988. To determine the $L_{\text{Aeq 15hr}}$ from the $L_{\text{A10 18hr}}$ we have assumed a minus 3 dB correction, which has been sourced from noise monitoring data collected from a similar road in NSW.

At the nearest noise sensitive receivers along Newrybar Swamp Road (i.e. Receiver R1, R2 and R3 – refer to Figure 2 of Appendix A for receiver locations), noise levels from the onsite haulage trucks traversing Newrybar Swamp Road are predicted to cause a rise of approximately 1.3 dB(A) to the existing $L_{Aeq\ 15hr}$ traffic noise from 56 to 57 dB(A) at R1, 50 to 51 dB(A) at R2 and 46 to 47 dB(A) at R3. For PEN3D calculation sheets refer to Appendix C of this report.

The predicted road traffic noise impacts are within the 60 dB(A) L_{Aeq 15hr} noise criterion from the "NSW Road Noise Policy".

Further, it is unlikely that the proposal will increase heavy vehicle movements on Newrybar Swamp Road as the existing extractive industry directly to the north of the subject site is to cease all extraction and haulage prior to the start commencement of extraction and haulage from the proposed quarry.



6.0 RECOMMENDED ACOUSTIC TREATMENTS

To mitigate onsite activities impacting surrounding noise sensitive properties we recommended the following acoustic treatments and management principles:

 Unless otherwise approved in writing by the Administering Authority, the operating hours for the quarry should be confined to:

Monday to Friday

7am to 6pm

Saturdays

8am to 1pm

For construction work outside the acoustic batters/barriers operating hours should be confined to:

Monday to Friday

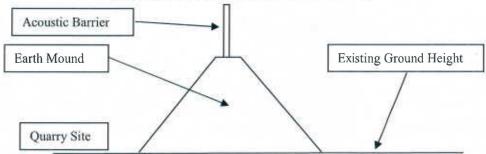
7am to 6pm

Saturdays

8am to 1pm

- Extraction of sand should occur in a northwest to southeast direction so that the working face acts as an additional acoustic screen to the offsite dwelling noise sensitive receivers to the east and south (i.e. Receiver Numbers 1 and 3).
- Excavators and loaders when at the extraction area should remain in the extraction pit where
 possible so that the working face provides acoustic screening of equipment.
- Acoustic screens (i.e. barriers / earth mound or a combination of both) ranging from 2.5m to
 3.5m in height are to be constructed at the locations as detailed in Sketch 1 in Appendix A of this report. A recommended typical barrier / earth mound cross section is a follows:

Combination of acoustic barrier and earth berm



- The onsite generator is likely to require a three sided solid walled and roofed enclosure, with the ventilation (open) side facing towards the north away from the nearest southern and eastern dwellings.
- Unnecessary use of equipment should be minimised such as using two excavators at the same time when the work could be completed by one excavator.
- Drivers be instructed to operate equipment in a manner that does not generate unnecessary noise, through avoiding excessive revving of motors, and avoidance of impact with solid objects.



- No alarm bells or paging systems should be used. Cordless telephones are a suitable substitute.
- All mechanical plant, machinery and trucks are to be fitted with exhaust controls that minimise
 noise pollution in accordance with current legislation and industry best practices.
- All engines including trucks are to be maintained and tuned to manufacturer's specifications so
 as to minimise exhaust emissions.
- When new technology or equipment is being considered, equipment with low noise emissions should be the preferred choice; and the new equipment must have best practice noise suppression controls incorporated or installed (i.e. quiet engines, enclosed engines, exhaust mufflers).
- Vehicles have a modified beeper installed (commonly termed a "croaker", as they sound similar to a frog croak).
- Fixed plant should be located as far as possible from offsite noise sensitive receivers (i.e. the nearest dwellings to the south and east).
- All onsite haulage / access roads be well maintained (no potholes) and levelled as required to
 minimise truck bounce as they move around the site. Drainage grating over trafficable areas be
 well secured to prevent rattling.
- Equipment speeds be limited to 20km/hr on the site and 40km/hr on the main entry access road.
- Provide neighbours with a contact number should any problem arise. In the unlikely event of a noise complaint, the complaint must be dealt with sensitively and respectfully, with the noise abated as soon as possible. A complaint register must also be completed and stored (refer to Appendix C for an example of a complaint register).
- Prior to earth mounds / batters being constructed the surrounding noise sensitive receivers should be contacted and informed of the anticipated duration (start and finish dates) and daytime hours when the earth mounds / batters are to be constructed.
- During construction activity, provide local residents with an indicative schedule of the works
 program, in particular, a clear notification of the times when new or noisy activities are to be
 conducted proximate to the residential premises. This notification should also include contact
 details of the 'responsible person' should residents wish to discuss the onsite activity.
- Where possible plant and equipment should work from the screened side of the earth mounds / batters (opposite side of batters to nearest receivers) once the earth mounds / batters start being erected so that partial or full screening or equipment is achieved.

A noise management plan (NMP) should be prepared by a suitable qualified and experienced noise consultant prior to any construction or operational works being undertaken at the site.



7.0 DISCUSSION

The proposal is to operate a sand quarry at the subject site (Lot 32 on DP1151612) with the extraction of sand up to a maximum of 610,000m³ over the life of the quarry at an annual rate of less than 80,000m³. The life of the quarry is anticipated to be between 5 and 15 years.

Activities will initially include the stripping of top soil for minor site filling and construction of onsite earth batters / mounds for noise and visual screening (construction activities). Extraction of sand (operational) will be undertaken by excavators and a front end loader and will be stockpiled and loaded into haulage trucks for dispatch to markets.

Onsite activity has the potential to impact surrounding noise sensitive receivers which are generally rural residential properties. The noise criterion is based upon measured background levels to determine the Rating Background Levels, and calculation of the "Intrusive" and "Amenity" Criterion outlined in the "NSW Industrial Noise Policy".

For the offsite noise sensitive receivers to the south and east (Receivers 1 to 3), to mitigate onsite activity noise emissions (predicted to achieve the adopted noise criterion) we have recommended acoustic screens (i.e. barrier / earth batter), which can be constructed from a combination of earth batters and solid acoustic barriers. The buffer separation distance between the site and noise sensitive receivers to the southwest, west and northwest (Receivers 4 to 6) is predicted to provide sufficient noise mitigation to achieve the noise criterion without the need for acoustic treatments.

Road traffic noise levels from quarry haulage trucks are predicted to cause a rise of approximately $1.3~\mathrm{dB(A)}$ to the existing $L_{\mathrm{Aeq~15hr}}$ traffic noise from 56 to 57 dB(A) at the nearest dwelling along Newrybar Swamp Road. The predicted road traffic noise impacts are within the 60 dB(A) $L_{\mathrm{Aeq~15hr}}$ noise criterion from the "NSW Road Noise Policy". We also note that it is unlikely that the proposal will increase heavy vehicle movements on Newrybar Swamp Road as the existing extractive industry directly to the north of the subject site is to cease all extraction and haulage prior to the start commencement of extraction and haulage from the proposed quarry.

Further, the sand quarry will utilise new plant equipment including the excavators, loader and haul trucks which will assist in reduced noise emissions; and the office will primarily rely on solar electric rather than the use of the onsite generator.

Noise impacts from construction activities are predicted to be above "Noise Affected" criterion within the New South Wales "Interim Construction Noise Guideline", which is not unlike any other construction site in Northern New South Wales. To minimise noise impacts we have recommended that such activities be undertaken during daytime hours between 7am to 6pm Monday to Friday and 8am to 1pm on Saturdays.

The key to managing noise impacts is to ensure that all practical steps are taken to minimise noise from the site. If the nearby noise sensitive receivers (i.e. residential dwellings) are aware that the quarry operators are mindful of noise impacting upon their residential premises, they will tend to be less annoyed than if they feel no regard is made as to their amenity.

As a final note, a noise management plan (NMP) should be prepared by a suitable qualified and experienced noise consultant prior to any construction or operational works being undertaken at the proposed quarry site.



8.0 CONCLUSIONS

This report is in response to a request by Ardill Payne and Partners on behalf of Ballina Sands Pty Ltd for an environmental noise impact assessment of a proposed sand quarry at Lennox Heads.

Overall, the site is suitable as a quarry, subject to the noise mitigation treatments and management principles detailed in Section 6 being integrated into the construction and normal operation of the facility.

Report Reviewed By:

y

JAY CARTER BSc

Director

Report Compiled by:

Matthew Lopez BEng Consultant



APPENDIX A

Attachments, Subject Site Location, Surrounding Environs and Recommended Acoustic Screens



Attachment 1 (P1 of 3): Extract of the Director General Requirements from The NSW Department of Environment, Climate Change and Water (DECC) dated 15th November 2012.

Noise and vibration

Any residences that surround the proposed site could be subject to unacceptable noise impacts if not managed appropriately.

A Noise Impact Assessment (NIA) for the proposal must be conducted by an appropriately qualified acoustics consultant. The NIA must be conducted in accordance with the State Government's *Industrial Noise Policy* and address the potential impacts of the quarry operations on any nearby residents including the following:

Describe baseline conditions

- Determine the existing background (L_{A90}) and ambient (L_{Aeq}) noise levels in accordance with the NSW Industrial Noise Policy.
- Determine the existing road traffic noise levels in accordance with the NSW Environmental Criteria for Road Traffic Noise, where road traffic noise impacts may occur.
- The noise impact assessment report should provide details of all monitoring of existing ambient noise levels including:
 - a) details of equipment used for the measurements
 - b) a brief description of where the equipment was positioned
 - a statement justifying the choice of monitoring sites, including the procedure used to choose the sites, having regards to the definition of 'noise sensitive locations(s)' and 'most affected locations(s)' described in Section 3.1.2 of the NSW Industrial Noise Policy
 - d) details of the exact location of the monitoring site and a description of land uses in surrounding areas
 - e) a description of the dominant and background noise sources at the site
 - f) day, evening and night assessment background levels for each day o the monitoring period
 - g) the final Rating Background Level (RBL) value
 - h) graphs of the measured noise levels for each day should be provided
 - a record of periods of affected data (due to adverse weather and extraneous noise), methods used to exclude invalid data and a statement indicating the need for any re-monitoring under Step 1 in Section B1.3 of the NSW Industrial Noise Policy
 - determination of L_{Aeq} noise levels from existing industry.

Assess impacts

- Determine the project specific noise levels for the site. For each identified potentially affected receiver, this should include:
 - a) determination of the intrusive criterion for each identified potentially affected receiver
 - selection and justification of the appropriate amenity category for each identified potentially affected receiver
 - determination of the amenity criterion for each receiver
 - d) determination of the appropriate sleep disturbance limit.



Attachment 1 (P2 of 3): Extract of the Director General Requirements from The NSW Department of Environment, Climate Change and Water (DECC) dated 15th November 2012.

- Maximum noise levels during night-time period (10pm-7am) should be assessed to analyse possible affects on sleep. Where L_{A1(Inin)} noise levels from the site are less than 15 dB above the background L_{A90} noise level, sleep disturbance impacts are unlikely. Where this is not the case, further analysis is required. Additional guidance is provided in Appendix B of the NSW Environmental Criteria for Road Traffic Noise.
- Determine expected noise level and noise character (e.g. tonality, impulsiveness, vibration, etc) likely to be generated from noise sources during:
 - 1. site establishment
 - 2. construction
 - 3. operational phases
 - 4. transport including traffic noise generated by the proposal
 - 5. other services.

Note: The noise impact assessment report should include noise source data for each source in 1/1 or 1/3 octave band frequencies including methods for references used to determine noise source levels. Noise source levels and characteristics can be sourced from direct measurement of similar activities or from literature (if full references are provided).

- Determine the noise levels likely to be received at the most sensitive locations (these may vary for
 different activities at each phase of the development). Potential impacts should be determined for any
 identified significant adverse meteorological conditions. Predicted noise levels under calm conditions
 may also aid in quantifying the extent of impact where this is not the most adverse condition.
- . The noise impact assessment report should include:
 - a) a plan showing the assumed location of each noise source for each prediction scenario
 - b) a list of the number and type of noise sources used in each prediction scenario to simulate all potential significant operating conditions on the site
 - any assumptions made in the predictions in terms of source heights, directivity effects, shielding from topography, buildings or barriers, etc
 - d) methods used to predict noise impacts including identification of any noise models used. Where modelling approaches other than the use of the ENM or SoundPlan computer models are adopted, the approach should be appropriately justified and validated.
 - an assessment of appropriate weather conditions for the noise predictions including reference to any weather data used to justify the assumed conditions.
 - f) the predicted noise impacts from each noise source as well as the combined noise level for each prediction scenario under any identified significant adverse weather conditions as well as calm conditions where appropriate.
 - g) for developments where a significant level of noise impact is likely to occur, noise contours for the key prediction scenarios should be derived
 - an assessment of the need to include modification factors as detailed in Section 4 of the NSW Industrial Noise Policy.
- Discuss the findings from the predictive modelling and, where relevant noise criteria have not been met, recommend additional mitigation measures.
- The noise impact assessment report should include details of any mitigation proposed including the attenuation that will be achieved and the revised noise impact predictions following mitigation.
- Where relevant noise/vibration criteria cannot be met after application of all feasible and cost effective mitigation measures the residual level of noise impact needs to be quantified by identifying:
 - a) locations where the noise level exceeds the criteria and extent of exceedance
 - b) numbers of people (or areas) affected
 - c) times when criteria will be exceeded
 - d) likely impact on activities (speech, sleep, relaxation, listening, etc)
 - e) change on ambient conditions
 - f) the result of any community consultation or negotiated agreement.

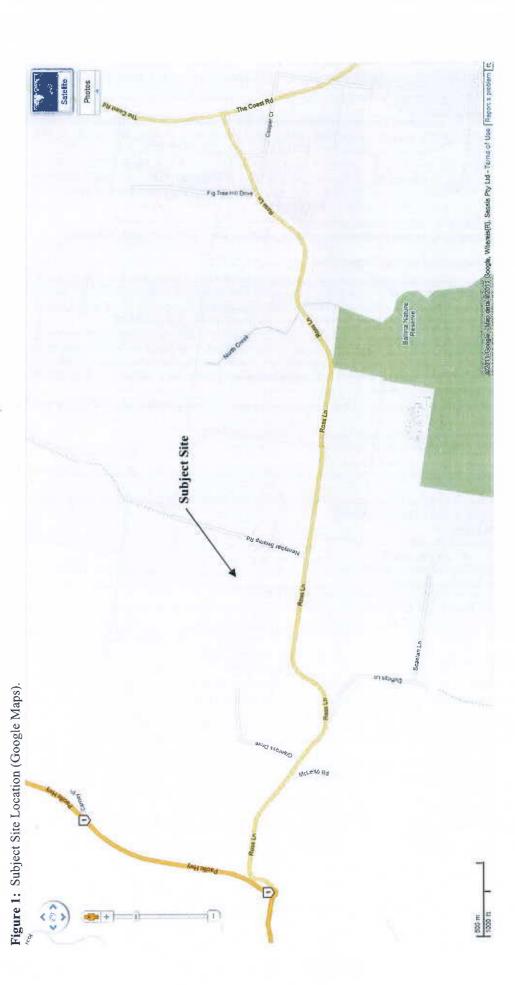


Attachment 1 (P3 of 3): Extract of the Director General Requirements from The NSW Department of Environment, Climate Change and Water (DECC) dated 15th November 2012.

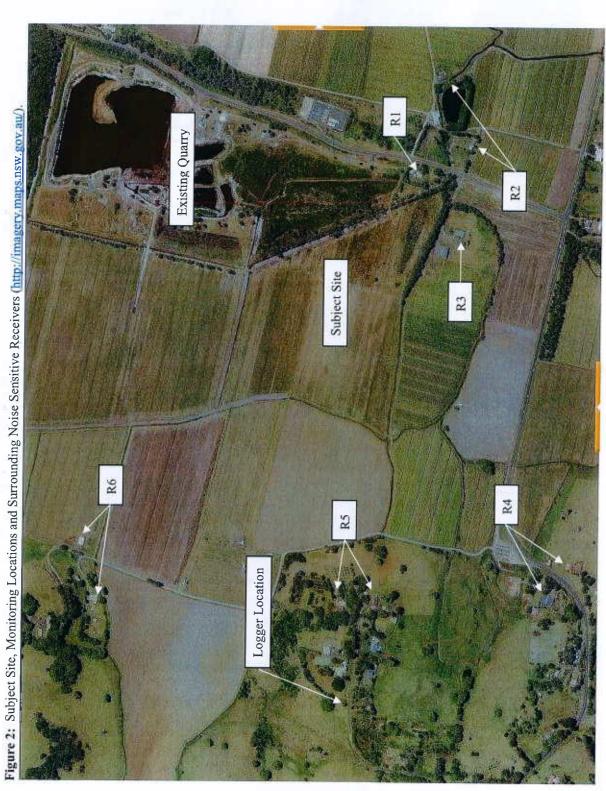
- For the assessment of existing and future traffic noise, details of data for the road should be included such as assumed traffic volume; percentage heavy vehicles by time of day; and details of the calculation process. These details should be consistent with any traffic study carried out in the EIS.
- Where blasting is intended an assessment in accordance with the Technical Basis for Guidelines to Minimise Annoyance due to Blasting Overpressure and Ground Vibration (ANZECC, 1990) should be undertaken. The following details of the blast design should be included in the noise assessment:
 - a) bench height, burden spacing, spacing burden ratio
 - b) blast hole diameter, inclination and spacing
 - c) type of explosive, maximum instantaneous charge, initiation, blast block size, blast frequency.

Describe management and mitigation measures

- Determine the most appropriate noise mitigation measures and expected noise reduction including both
 noise controls and management of impacts for both construction and operational noise. This will include
 selecting quiet equipment and construction methods, noise barriers or acoustic screens, location of
 stockpiles, temporary offices, compounds and vehicle routes, scheduling of activities, etc.
- For traffic noise impacts, provide a description of the ameliorative measures considered (if required), reasons for inclusion or exclusion, and procedures for calculation of noise levels including ameliorative measures. Also include, where necessary, a discussion of any potential problems associated with the proposed ameliorative measures, such as overshadowing effects from barriers. Appropriate ameliorative measures may include:
 - a) use of alternative transportation modes, alternative routes, or other methods of avoiding the new road usage
 - b) control of traffic (eg: limiting times of access or speed limitations)
 - c) resurfacing of the road using a quiet surface
 - d) use of (additional) noise barriers or bunds
 - e) treatment of the façade to reduce internal noise levels buildings where the night-time criteria is a major concern
 - f) more stringent limits for noise emission from vehicles (i.e. using specially designed 'quite' trucks and/or trucks to use air bag suspension
 - g) driver education
 - h) appropriate truck routes
 - i) limit usage of exhaust breaks
 - j) use of premium muffles on trucks
 - k) reducing speed limits for trucks
 - 1) ongoing community liaison and monitoring of complaints
 - m) phasing in the increased road use.







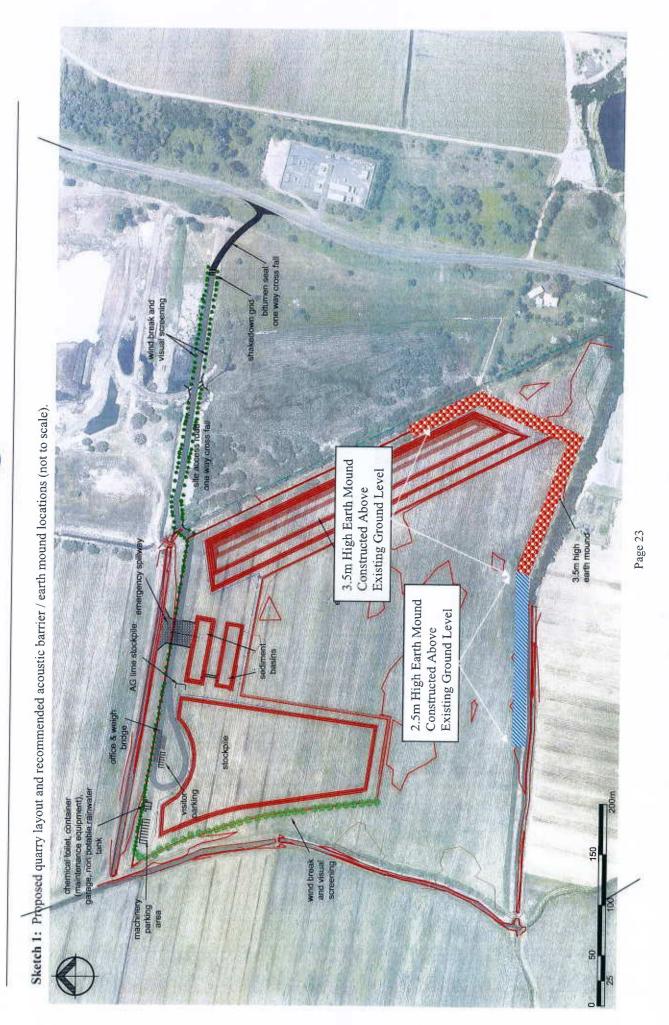
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Photograph 1: Monitoring Location.









APPENDIX B

Development Plan

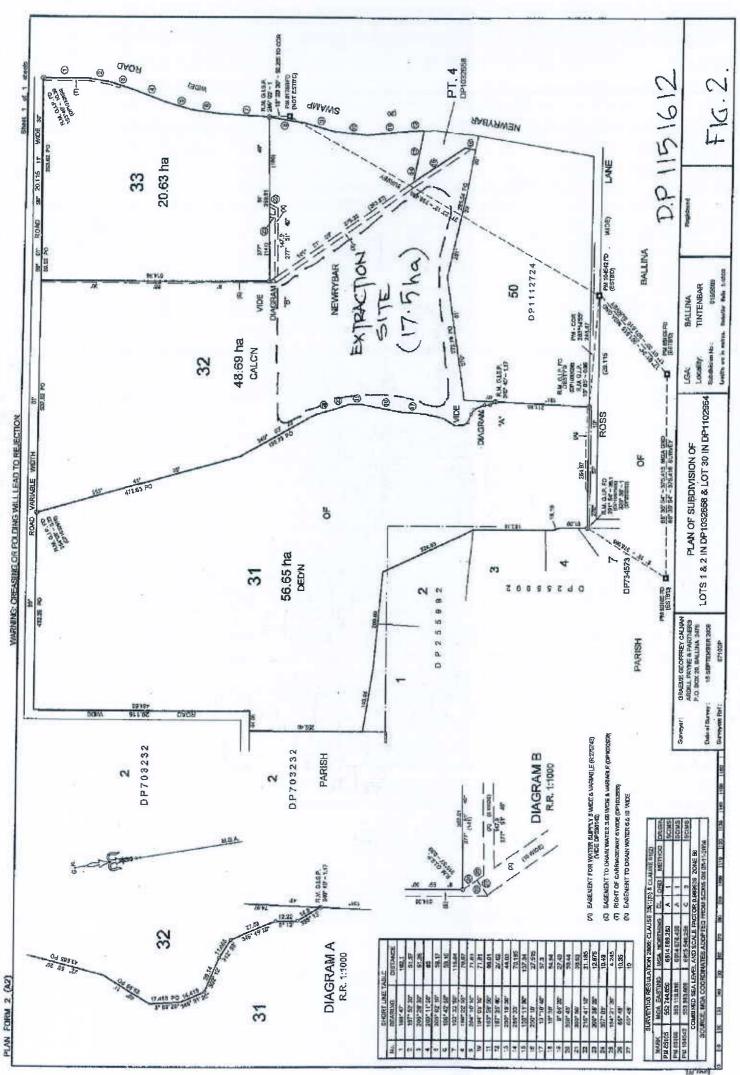




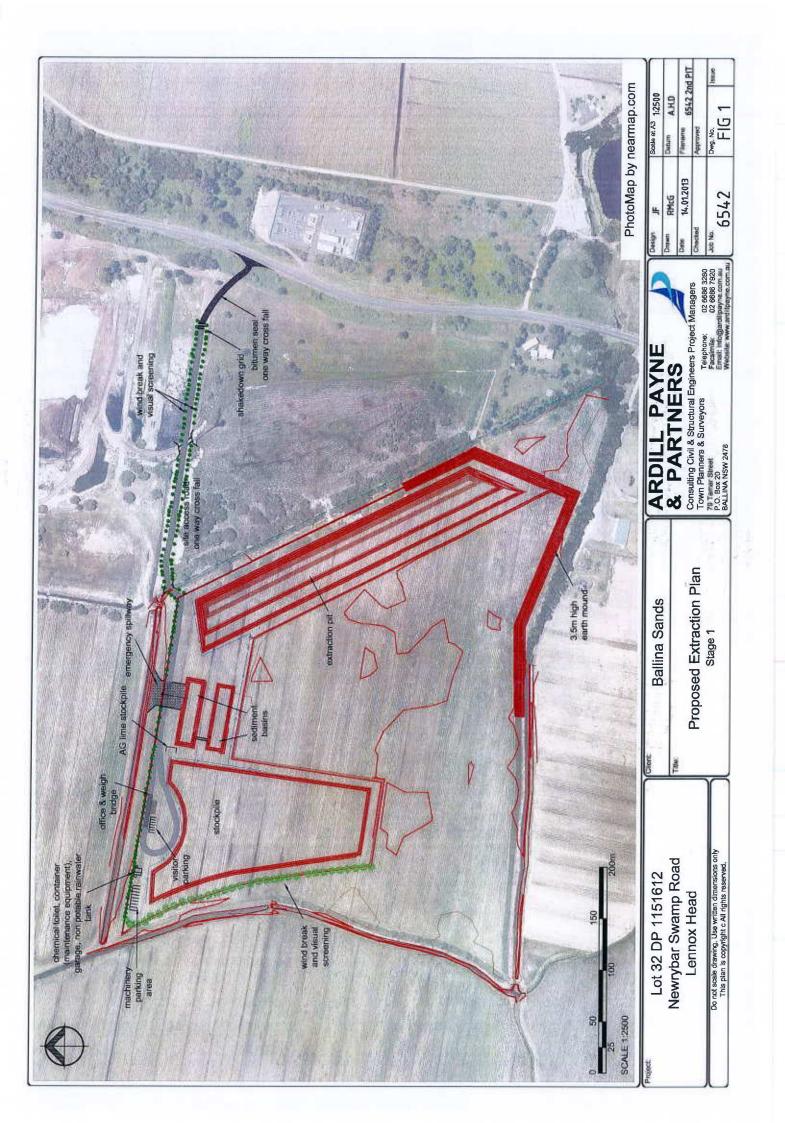
FIGURE 1 - SITE LOCALITY PLAN

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Filename Locality Plan - Fig 1 Dwg. No. FIG1 21-6-10 Æ

Telephone; 02 6686 3280 Facsimile: 02 6686 7920 Emall: info@ardillpayne.com.au







APPENDIX C

Results and Calculations / Predictions



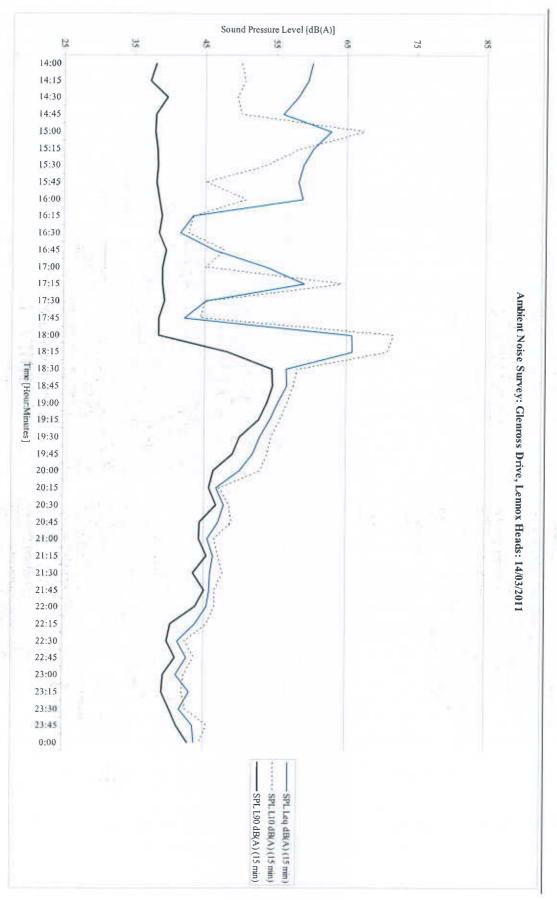
Australian Government

March 2011 Daily Weather Observations Observations observations from Ballina Airport. Ballina, New South Wales

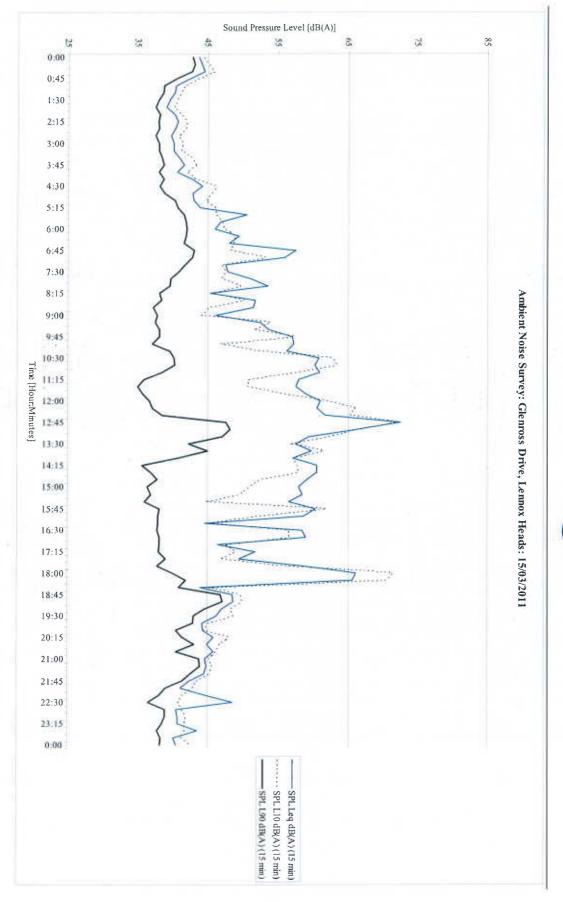
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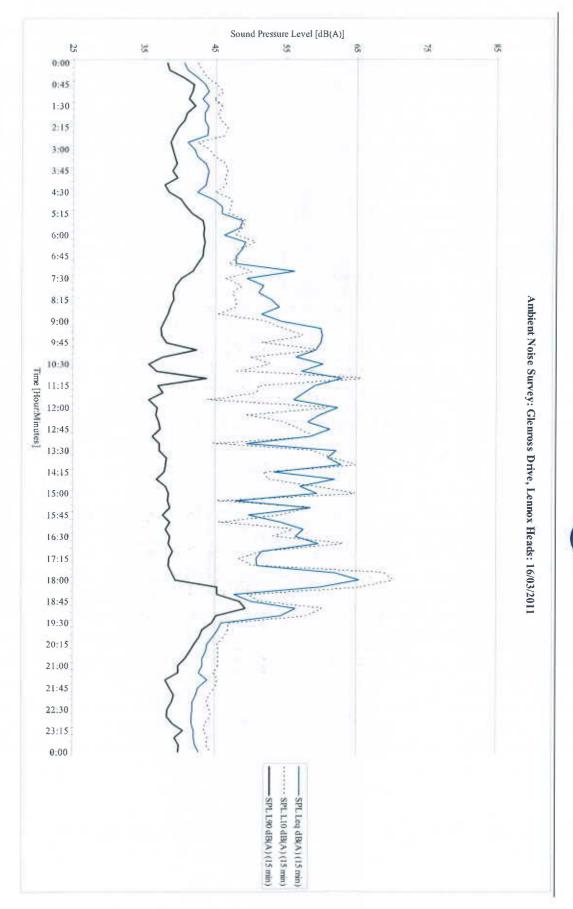
Observations were drawn from Ballina Airport AiwS (station 058198). The closest station with sunshine and evaporation observations is at Alstonville, about 10 km to the west



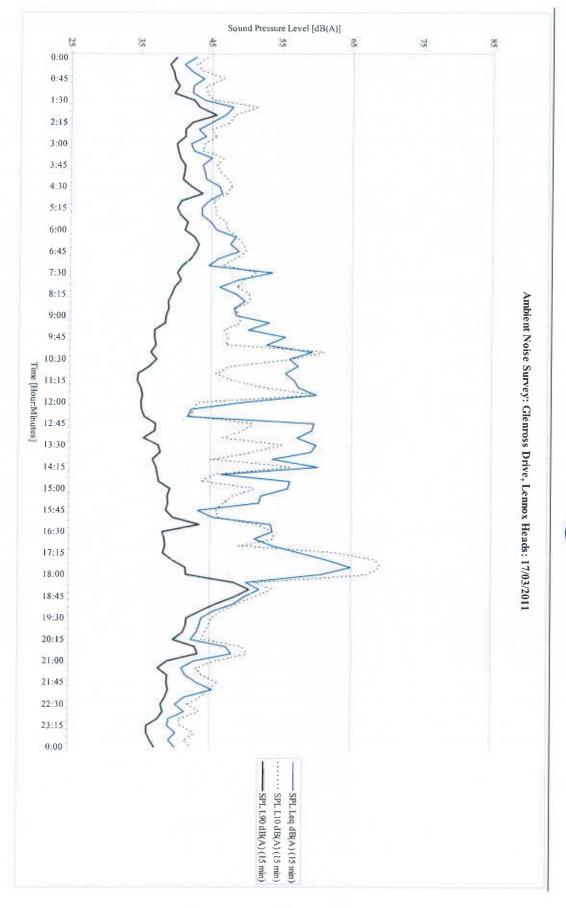




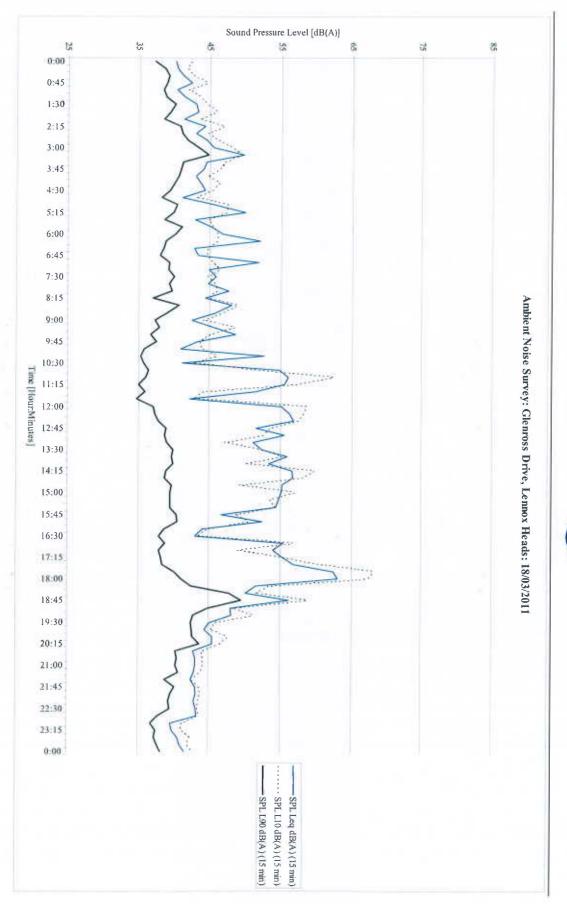




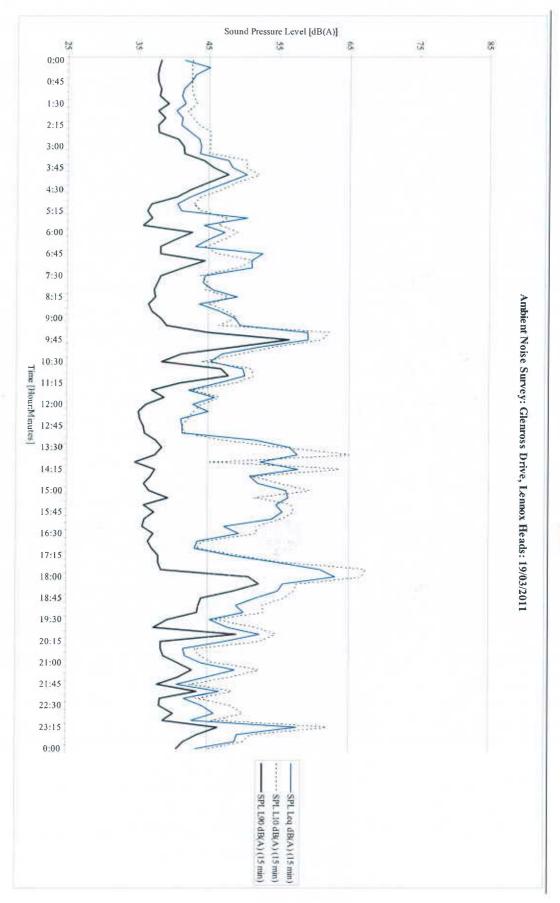




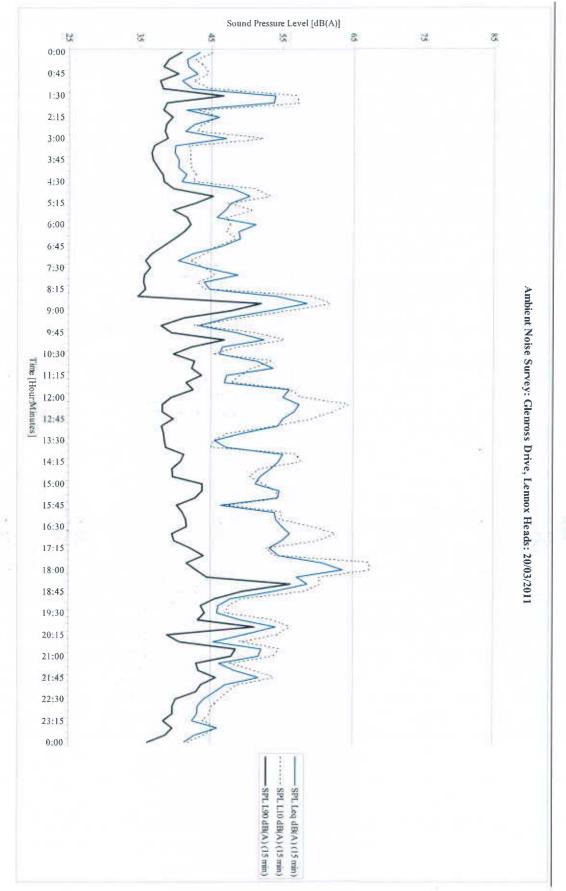






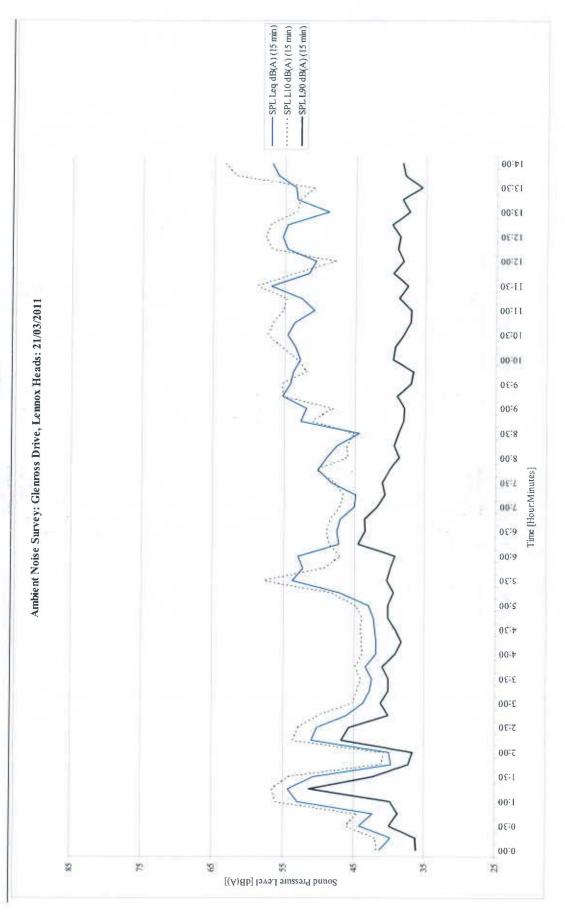














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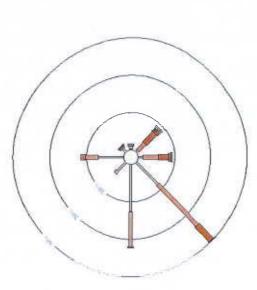
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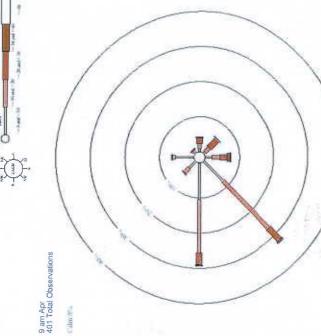
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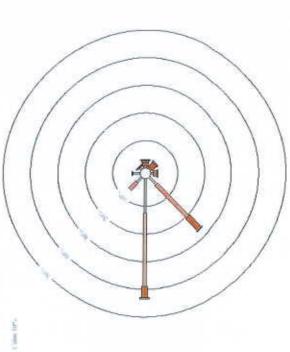
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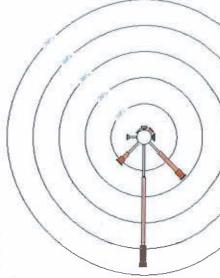
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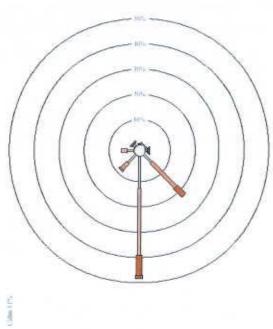
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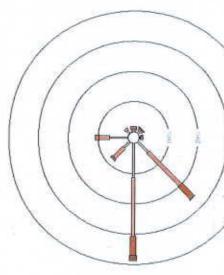


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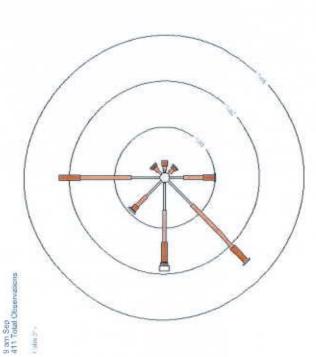
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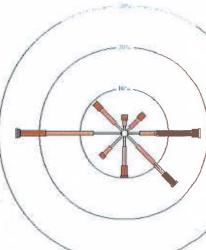
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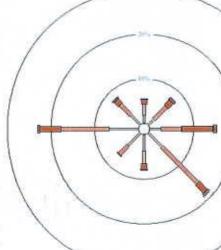






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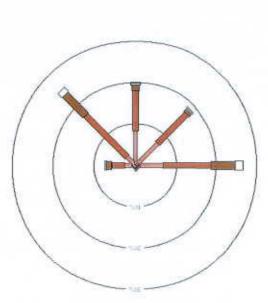
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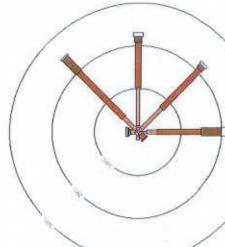
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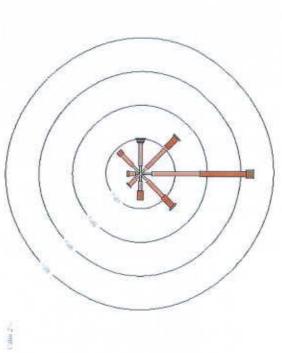
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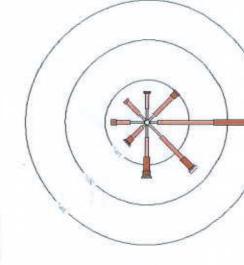
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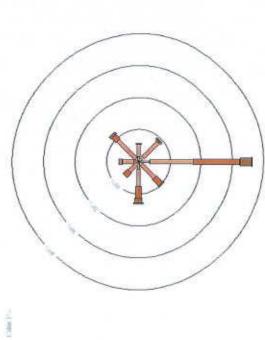


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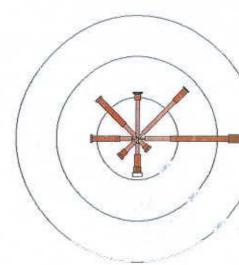
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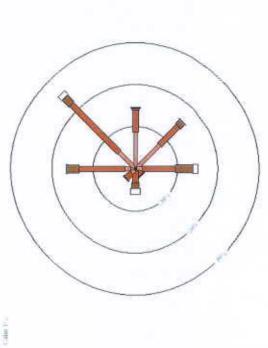
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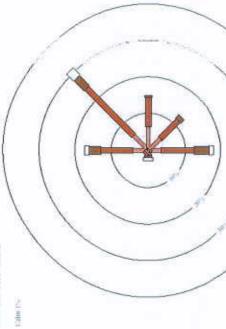


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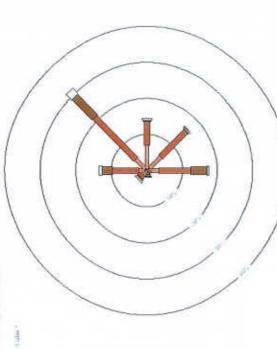


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Pen3D Model Explanation:

The PEN3D General Prediction Model (GPM) is based on the method contained in the book "Engineering Noise Control - Theory and Practice" by David Bies & Colin H Hansen of the Department of Mechanical Engineering, University Of Adelaide, Publisher Unwin Hyman 1988. Chapter 5.9 Pages 117 to 127 describes the model.

The PEN3D software was originally developed in 1993 and has been in constant development and review.

The basic equation adopted by the GPM is:

$$Lp = Lw - 20 \log 10(r) - 10 \log 10(4\pi) + AE$$

Where

Lp is the sound pressure level at an observer
Lw is the sound power level of the source
20 log10r - 10log10(4PI) is the Distance attenuation
AE is the excess attenuation factors and is determined as the sum of the contributions

The excess attenuation factors AE comprise

$$AE = Aa + Ag + Am + Ab + Af$$

Where

Aa = Excess attenuation due to air absorbtion

Ag = Excess attenuation due to ground reflection

Am = Excess attenuation due to meteorological effects

Ab = Excess attenuation due to barriers; and

Af = Excess attenuation due to forests

The following sections describe the excess attenuation factors and the implementation within PEN3D.

Air Absorbtion Excess Attenuation

Aa, the attenuation due to air absorption is dependent upon temperature and relative humidity. The values used in the PEN noise model are based on Sutherlan, LC JF Piercy, H.E. Bass & L.B. Evans 1974. Method for calculating the absorption of sound by the atmosphere. Journal of the Acoustical Society of America 56, Supplement 1 (abstract).

$$Aa = m r$$

where

m is the absorption per m; and r is the actual distance from source to receiver



Ground Reflection Excess Attenuation

Ag, The excess attenuation due to ground reflection is obtained by combining the direct wave and the reflected wave incoherently, that is the energy from the ground wave is added to the direct wave.

$$R = \frac{Z \sin(\beta) - \rho c}{Z \sin(\beta) + \rho c}$$

where

- β is the angle the reflected wave makes with the ground
- Z is the complex ground impedance (a function of the flow resistivity);
- ρ is the density of air; and
- c the speed of sound.

The reflection loss A_R is given by -20*log10(R)

$$Ag = -10\log 10(1 + 10^{-AR/10})$$

Meterological Excess Attenuation

Am, the excess attenuation due to meteorology is obtained by firstly calculating the vertical sonic gradient due to wind and temperature effects. It is calculated by reference to the method outlined in "A Method to To Incorporate Meteorological Effects into A Road Traffic Model" by MA Simpson, Proceedings of Acoustics 2004.

Barrier Excess Attenuation

Ab, the excess attenuation due to barriers is obtained by firstly calculating the curved noise path due to wind and temperature effects. It is calculated by reference to the method outlined in "A Method to To Incorporate Meteorological Effects into A Road Traffic Model" by MA Simpson, Proceedings of Acoustics 2004.

If a barrier exists the effective location of the source and receiver is modified according to the method outlined in Tonin, R, "Estimating Noise Levels from Petrochemical Plants, Mines and Industrial Complexes", Acoustics Australia, 13(2):59-67, 1985.

Forest Excess Attenuation

Af, the excess attenuation due to forest is obtained by the following:

$$Af = 0.01 \text{ r f}^{(1/3)}$$

where

r = distance through the forest in (m), and

f = frequency in (Hz)



ROAD TRAFFIC NOISE IMPACT PREDICTIONS

POINT CALCULATIONS Pen3D2000 V 1.9.11 Project Code:10453a

Project Description: Noise assessment of Newrybar Swamp Rd Quarry

File:existing traffic

Monday 04 Mar, 2013 at 12:55:51

CoRTN Calculations

All road segments included. Segmentation angle: 10degrees. Road elevations apply.

Receptor	X Posn	Y Posn	Height	Leq(15hour)
•	(m)	(m)	(m)	(dB(A))
east	1256.3	-429.9	1.8	55.7
south	1143.9	-557.4	1.8	45.7
southwest	401.3	-923.2	1.8	28.6
west	305.7	-473.1	1.8	30
northwest	230.5	172.1	1.8	27.3
east across newrybar	1348.3	-533.6	1.8	49.8

Project Description: Noise assessment of Newrybar Swamp Rd Quarry

File: Existing traffic with propsoed quarry traffic

Monday 04 Mar, 2013 at 12:56:06

CoRTN Calculations

All road segments included. Segmentation angle: 10degrees. Road elevations apply.

Receptor	X Posn	Y Posn	Height	Leg(15hour)
•	(m)	(m)	(m)	(dB(A))
east	1256.3	-429.9	1.8	56.9
south	1143.9	-557.4	1.8	47
southwest	401.3	-923.2	1.8	29.8
west	305.7	-473.1	1.8	31.3
northwest	230.5	172.1	1.8	28.5
east across newrybar	1348.3	-533.6	1.8	51



OPERATIONAL NOISE IMPACT PREDICTIONS (Free-field Levels)

START OF QUARRY TO THE NORTH

POINT CALCULATIONS

Pen3D2000 V 1.9.11

Project Code:10453a

Project Description: Noise assessment of Newrybar Swamp Rd Quarry

File:Z:\CRG ACOUSTICS\ACOUSTIC JOBS\10453a Sandmine Lennox Head\10453a_sandmine april 2012 start.PEN

File Description:Data file covering start

Tuesday 05 Mar, 2013 at 11:38:22

Environmental Calculations

All point and line sources included. Line source segmentation angle: 1 degrees. Calculations for specified meteorology.

Noise level results are the logarithmic addition of all the noise sources

Noise level results incorporate the incoherent ground reflection algorithm

Meteorology:

Wind speed 0.0 (m/s) Wind direction 0 Mast height 10.0 (m)
Temperature 20.0 (C) Temperature Gradient 0.0 (C/100m) Humidity 50.0 (%)

Surface Roughness of terrain 0.023000000 (m) Zero plane offset 0.080000000 (m) Receptor X Posn Y Posn Height Ground Noise Level

Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
R1	553772.1	6815867.2	1.8	3		38.9
Source	X Posn	Y Posn	Height		Noise Leve	1
	(m)	(m)	(m)		(dB(A))	
EXCAV	ATOR	553506.2	6816195.1	2.5		31.3
Generate	or	553406.4	6816251.5	1	:	22.1
LOADE	R	553327.3	6816183.5	2.5		23
LOADE	R	553284.2	6816216.4	2.5		20.1
LOADE	R	553258.3	6816248.7	2.5		21.3
Road tru	ck	553382	6816257.5	2.5		16.9
Road tru	ick	553365.8	6816259.8	2.5		16.8
Road tru	ick	553348.8	6816262.2	2.5		16.8
Road tru	ck	553330.8	6816264.7	2.5		16.7
Road tru	ck	553312	6816267.4	2.5		16.7
Road tru	ck	553295.1	6816269.8	2.5		9.7
Road tru	ck	553288.9	6816262.9	2.5		10.1
Road tru	ck	553290.6	6816248.9			9.2
Road tru	ck	553299.7	6816243	2.5		10.6
Road tru		553315.9	6816243.3	2.5		10.7
Road tru			6816243.6			10.7
Road tru		553346.3	6816243.9			16.2
Road tru		553360.5	6816244.2			16.2
Road tru		553374.8		2.5		16.6
Road tru		553389.1	6816243.4			16.6
Road tru		553402.8	6816242.8			16.7
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Road tru		553428.8	6816241.6			16.8
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Road tru		553453.1	6816240.5			16.8
Road tru		553464.6		2.5		16.9
Road tru			6816239.5			16.9
Road tru				2.5		16.9
Road tru			6816238.5			6.9
Road tru			6816238.1			17
Road tru			6816237.6			7
Road tru			6816237.4			10.8
Road tru			6816244.4			7.2
Road tru			6816243.1			7.3
Road tru			6816241.8			7.3
Road tru			6816240.5			7.4
Road true			6816239.2			7.4
Road true				2.5		7.4
Road true			6816236.9			7.4
Road true			6816235.7			7.4
Road true			6816234.6			7.4
Road true			6816233.5			7.5
Road true			6816232.4			7.5
Road true			6816231.4			7.5
Road true			6816230.4			7.5
Road true			6816229.3			7.5
Road true			6816228.4			7.5
Road true			6816227.4			7.5
Road true			6816226.4			7.5
Road true			6816225.5			7.5
Road true			6816224.5			7.6
ixuau iiui	- K	333011.0	0010224.3	4.3	I.	7.0



Road tr	uck	553684.7	6816223.0	5 2.5		17.6
Road tr		553691.5				17.6
Road tr		553698.2				17.6
Road tr		553704.8				17.6
Road tr		553711.3				17.6
Road tr			6816219.2			17.6
Road tr		553724.1				17.6
Road tr			6816217.5			17.7
Road tr						
			6816216.3			17.7
Road tr		553743	6816215.8			17.7
Road tr		553749.1	6816215			17.7
Road tri			6816214.2			17.7
Road tn			6816213.4			17.7
Road tri			6816212.6			17.7
Road tr	ıck	553773.5	6816211.8	3 2.5		17.7
Road tri	ıck	553779.4	6816211	2.5		17.7
Road tri	ick	553785.4	6816210.2	2.2.5		17.7
Road tr	ick	553791.4	6816209.4	12.5		17.8
Road tru	ıck	553797.3	6816208.6	2.5		17.8
Road tru	ick	553800.4	6816208.2	2.5		3.1
Road tn	ick	553803.3	6816205.7	7.2.5		18.7
Road tru			6816200.8			18.8
Road tr		553814	6816196.1			18.8
Road tru		553819.2	6816191.5			18.8
Road tri				2.5		
		553824.2				18.8
Road tn		553829.2				18.8
Road tru		553834	6816178.3			18.9
Road tru			6816174			18.9
Road tru			6816169.9			18.9
Road tru			6816166.3			17.7
HAUL	TRUCK	553475.4	6816194.3	2.5		15.8
HAUL	TRUCK	553462.6	6816196.7	2.5		15.8
HAUL	TRUCK	553449.1	6816199.3	2.5		15.7
HAUL	FRUCK	553435	6816201.9	2.5		15.7
HAUL	TRUCK	553420.1	6816204.7	2.5		15.6
HAUL	FRUCK	553404.4	6816207.7	2.5		15.6
HAUL		553387.8	6816210.8			15.6
HAUL		553370.2	6816214.1			15.5
HAUL		553351.5	6816217.6			11
HAUL		553331.6	6816221.3			
						10.9
HAUL		553310.4	6816225.3			10.8
HAUL		553287.7	6816229.5			10.8
HAUL			6816234.1			9
	TRUCK	553474.1	6816176.3			16.7
HAUL	TRUCK	553477.3	6816162.5	2.5		16.7
HAUL	TRUCK	553480.4	6816149.4	2.5		16.7
HAUL 7	TRUCK	553482.7	6816139.5	2.5		14.5
EXCAV	ATOR	553514.2	6816181.2	2.5		31.6
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
-	(m)	(m)	(m)	(m)		(dB(A))
R2A	553848.7	6815742.3		4.2		35.4
Source	X Posn	Y Posn	Height	1.2	Noise Leve	
Jource	(m)	(m)	(m)		(dB(A))	1
EXCAV		553506.2	6816195.1	2.5		28.5
Generate		553406.4	6816251.5			19.9
LOADE		553326.9	6816183.8			22.9
LOADE		553275.4	6816227.4			22.1
LOADE		553248.4	6816260.9			14.8
Road tru		553380.6	6816257.7			8
Road tru	ck	553361.3	6816260.4	2.5		8.9
Road tru	ck	553341.2	6816263.3	2.5	9	9.5
Road tru	ck	553320.2	6816266.2	2.5	9	9.9
Road tru	ck	553298.8	6816269.3	2.5	9	9.7
Road tru		553289.2	6816260.5			9.6
Road tru		553290.9	6816246.6			5.4
Road tru		553300.8	6816243	2.5		9.5
Road tru		553319.3	6816243.4			9.5
Road tru		553337.1	6816243.7	1.77		9.5
						9.3 9.1
Road tru		553354.3	6816244.1			
Road tru		553365	6816244.3			3.4
Road tru		553376.1	6816244	2.5		3.7
Road tru	ck	553393.1	6816243.2	2.5		7.7



Road to	ruck	553409 4	6816242.5	5.2.5	10	
Road to			6816241.8		14.9	
Road to	ruck	553440.6	6816241.1	1 2.5	14.9	
Road to	ruck	553455.5	6816240.4	1 2.5	14.9	
Road to	ruck	553469 9	6816239.7	725	15	
			6816239.1		15	
Road to						
Road ti	ruck	553497.5	6816238.5	2.5	6.9	
Road to	ruck	553510.7	6816237.9	2.5	6.9	
Road to	nick	553519.8	6816237.5	5 2 5	2.9	
					7.1	
Road to			6816244.2			
Road to	nick	553544.1	6816242.4	2.5	7.5	
Road to	uck	553556.9	6816240.7	2.5	7.5	
Road tr	nek	553569 4	6816239	2.5	7.6	
			6816237.4			
Road tr					7.5	
Road tr	uck	553593.5	6816235.8	3 2.5	15.5	
Road tr	uck	553605	6816234.3	12.5	11.1	
Road tr			6816232,8		11	
Road tr			6816231.3		11	
Road tr	uck	553638.3	6816229.8	3 2.5	15.6	
Road tr	uck	553648.9	6816228.4	2.5	15.6	
Road tr			6816227		15.6	
Road tr			6816225.7		15.6	
Road tr	uck	553679.5	6816224.3	2.5	15.7	
Road tr	uck	553689.3	6816223	2.5	15.7	
Road tr			6816221.7		15.7	
Road tr	uck		6816220.5		15.7	
Road tr	uck	553717.8	6816219.2	2.5	15.7	
Road tr	uck	553727	6816218	2.5	15.8	
Road tr		553736.1	6816216.8	2.5	15:8	
Road tr					15.8	
		553745.1	6816215.6			
Road tr		553754	6816214.4		15.8	
Road tr	uck	553762.7	6816213.2	2.5	15.8	
Road tr	uck	553771.4	6816212	2.5	15.9	
Road tr	uck	553780	6816210.9	2.5	15.9	
Road tr			6816209.8		15.9	
Road tr		553796.6			15.6	
Road tr	uck	553805	6816204.2	2.5	17.5	
Road tr	uck	553813.7	6816196.4	2.5	17.6	
Road tr	uck	553822.1	6816188.9	2.5	17.6	
Road tr			6816181.7		17.7	
					17.7	
Road tr		553838.1	6816174.7			
Road to			6816168		17.6	
HAUL	TRUCK	553473.8	6816194.6	2.5	13.8	
HAUL	TRUCK	553457.7	6816197.7	2.5	9.3	
HAIII	TRUCK		6816200.8		9.3	
	TRUCK		6816204.1		7.8	
	TRUCK		6816207.6		8.4	
HAUL	TRUCK	553385.5	6816211.2	2.5	8.9	
HAUL'	TRUCK	553365.1	6816215	2.5	9.6	
	TRUCK	553343.7	6816219	2.5	9.6	
	TRUCK		6816223.3		9.5	
		553321				
	TRUCK	553297	6816227.8		9.5	
HAUL'	TRUCK	553271.6	6816232.6	2.5	9.5	
HAUL'	TRUCK	553254.6	6816235.7	2.5	3.8	
	TRUCK		6816173	2.5	10.8	
	TRUCK		6816152.9		9.6	
HAUL	TRUCK	553482.6	6816139.6		5.3	
EXCAV	/ATOR	553514.2	6816181.2	2.5	28.8	
Receptor	X Posn	Y Posn	Height	Ground	Noise Level	
	(m)	(m)	(m)	(m)	(dB(A))	
DAD				4	35.9	
R2B	554002.8	6815828.9			31 5 T 1	
R2B Source	554002.8 X Posn	Y Posn	Height		Noise Level	
Source	554002.8 X Posn (m)				Noise Level (dB(A))	
Source	554002.8 X Posn (m)	Y Posn (m)	Height (m)	2.5	(dB(A))	
Source EXCAV	554002.8 X Posn (m) /ATOR	Y Posn (m) 553506.2	Height (m) 6816195.1		(dB(A)) 26.5	
Source EXCAV Generat	554002.8 X Posn (m) /ATOR or	Y Posn (m) 553506.2 553406.4	Height (m) 6816195.1 6816251.5	1	(dB(A)) 26.5 18.8	
Source EXCAV Generat LOADE	554002.8 X Posn (m) /ATOR or ER	Y Posn (m) 553506.2 553406.4 553326.8	Height (m) 6816195.1 6816251.5 6816183.8	1 2.5	(dB(A)) 26.5 18.8 25.3	
EXCAV Generat LOADE LOADE	554002.8 X Posn (m) /ATOR or ER	Y Posn (m) 553506.2 553406.4 553326.8 553284.8	Height (m) 6816195.1 6816251.5 6816183.8 6816215.6	1 2.5 2.5	(dB(A)) 26.5 18.8 25.3 22.1	
Source EXCAV Generat LOADE	554002.8 X Posn (m) /ATOR or ER	Y Posn (m) 553506.2 553406.4 553326.8	Height (m) 6816195.1 6816251.5 6816183.8	1 2.5 2.5	(dB(A)) 26.5 18.8 25.3	
EXCAV Generat LOADE LOADE	554002.8 X Posn (m) /ATOR or ER ER	Y Posn (m) 553506.2 553406.4 553326.8 553284.8	Height (m) 6816195.1 6816251.5 6816183.8 6816215.6	1 2.5 2.5 2.5	(dB(A)) 26.5 18.8 25.3 22.1	
EXCAV Generat LOADE LOADE LOADE LOADE	554002.8 X Posn (m) /ATOR or ER ER ER ER	Y Posn (m) 553506.2 553406.4 553326.8 553284.8 553260.9 553246.1	Height (m) 6816195.1 6816251.5 6816183.8 6816215.6 6816245.4 6816263.9	1 2.5 2.5 2.5 2.5 2.5	(dB(A)) 26.5 18.8 25.3 22.1 22	
EXCAV Generat LOADE LOADE LOADE LOADE Road tro	554002.8 X Posn (m) /ATOR or ER ER ER ER	Y Posn (m) 553506.2 553406.4 553326.8 553284.8 553260.9 553246.1 553375.3	Height (m) 6816195.1 6816251.5 6816183.8 6816215.6 6816245.4 6816263.9 6816258.4	1 2.5 2.5 2.5 2.5 2.5 2.5	(dB(A)) 26.5 18.8 25.3 22.1 22 14.1 16	
EXCAV Generat LOADE LOADE LOADE LOADE	554002.8 X Posn (m) /ATOR or ER ER ER ER ER eck cick	Y Posn (m) 553506.2 553406.4 553326.8 553284.8 553260.9 553246.1	Height (m) 6816195.1 6816251.5 6816183.8 6816215.6 6816245.4 6816263.9	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5	(dB(A)) 26.5 18.8 25.3 22.1 22 14.1	



Road tr	uck	553291	6816270.4	4 2.5		8
Road tr	uck	553289.1	6816261.0	6 2.5		12.8
Road tr	ick	553290.8	6816247.6	6 2.5		10.2
Road tn	uck	553305	6816243.	1 2.5		14.8
Road tri	ick	553331.1	6816243.6	6 2.5		14.8
Road tri	uck	553355.6	6816244.	1 2.5		14.9
Road tru	ıck	553380.2	6816243.8	8 2.5		15.4
Road tru	ick	553404.8	6816242.	7 2.5		15.5
Road tru	ick	553428	6816241.6			15.6
Road tr		553450	6816240.6			15.7
Road tru		553470.9	6816239.			15.7
Road tru		553490.8	6816238.8			15.8
Road tn		553509.7	6816237.9			15.8
Road tn		553520.6	6816237.5			8.7
Road tn		553533.9	6816243.8			16.3
Road tr		553552.9	6816241.2			16.5
Road tru		553570.9	6816238.8			16.5
Road tru		553588	6816236.5			16.5
Road tru		553604.4	6816234.4			16.6
Road tru		553620.1	6816232.3			16.7
Road tn		553635.1	6816230.3			16.7
Road tru		553649.4	6816228.3			16.7
Road tru		553663.3				16.8
Road tru		553676.5	6816224.7			16.8
Road tru		553689.3	6816223			12.1
Road tru	ıck	553701.7	6816221.4			16.9
Road tn		553713.6	6816219.8	3 2.5		16.9
Road tra		553725.1	6816218.2			17
Road tru		553736.3	6816216.7	7 2.5		17
Road tru	ıck	553747.1	6816215.3	3 2.5		17
Road tru	ıck		6816213.9			17.1
Road tru		553767.7				17.1
Road tr			6816211.2			17.1
Road tn	ıck	553787.3	6816209.9	2.5		17.2
Road tn	ick	553796.3	6816208.7	7 2.5		16.9
Road tru	ick	553808.4	6816201.1			20.9
Road tru		553823.2	6816187.9			21
Road tru	ıck	553836.7	6816175.8	3 2.5		21.1
Road tru	ıck	553846.2	6816167.5	2.5		18.2
HAUL		553468.1	6816195.7	2.5		15.2
HAUL		553439.5	6816201.1			15.1
HAUL		553408.3	6816206.9	2.5		15
HAUL		553374.3	6816213.3			14.9
HAUL		553337.1	6816220.3	2.5		14.9
HAUL	ruck	553296	6816228	2.5		14.8
HAULT	TRUCK	553262.6	6816234.3			11.7
HAUL 7		553474.2	6816175.7			13
HAUL T		553477.8	6816160.4			13.1
HAUL		553481.2	6816145.6			13.1
HAUL		553483.2	6816137.2			5.6
EXCAV	ATOR	553514.2	6816181.2	2.5		26.7
D .	V D	W D	TT 1/1.4	W-000		NI 1 1 1
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
D 2	(m)	(m)	(m)	(m)		(dB(A))
R3	553634.8	6815756.9		3.6	NT TO	35.8
Source	X Posn	Y Posn	Height		Noise Lev	el
EVOLU	(m)	(m)	(m)	2.6	(dB(A))	20.0
EXCAV		553506.2	6816195.1			28.9
Generate		553406.4	6816251.5			21.4
LOADE		553346	6816172.7 6816183.6			20.4
LOADE		553327.3	6816195.3			20.4
LOADE		553307	6816201.6			-1.4
LOADE		553296.1	6816231.8			24.7
LOADE Road tru		553271.8	6816257.2			9.9
Road tru		553384 553372.1	6816258.9			9.9
Road tru		553359.9	6816260.6			9.9
Road tru		553347.4	6816262.4			9.9
Road tru		553334.5	6816264.2			9.9
Road tru		553321.3	6816266.1			9.9
Road tru		553307.6	6816268	2.5		9.9
Road tru		553294.4	6816269.9			9.4
Road tru		553289.4	6816259.2			12
				7.5		- 55



Road truck	553291	6816245.4 2.5	5.9
Road truck	553297.6	6816242.9 2.5	9.7
Road truck	553309.8	6816243.2 2.5	9.7
Road truck	553321.8	6816243.4 2.5	9.7
Road truck	553333.5		9.7
Road truck	553345	6816243.9 2.5	9.7
Road truck	553356.3		9.7
Road truck	553364.6		6.7
Road truck	553373	6816244.1 2.5	9.8
Road truck Road truck	553384,2 553395.1		9.8
Road truck	553405.7		9.8 9.8
Road truck	553416.2		9.8
Road truck	553426.5		9.7
Road truck	553436.7		10
Road truck	553446.7		10
Road truck	553456,5		10
Road truck	553466.2		10
Road truck	553475.7	6816239.5 2.5	10
Road truck	553485.1	6816239.1 2.5	10
Road truck	553494.4	6816238.6 2.5	10
Road truck	553503.6	6816238,2 2.5	10
Road truck	553512.7		10
Road truck	553519.7		7.6
Road truck	553528.7		9.9
Road truck	553537.8		9.8
Road truck	553546.8		10.2
Road truck	553555.7		10.2
Road truck Road truck	553564.6		10.3
Road truck	553573.3 553581.9		10.3
Road truck	553590,5	6816236.2 2.5	10.2 10.1
Road truck	553590.5	6816235.1 2.5	10.1
Road truck	553607.5		10.1
Road truck	553615.9		10.2
Road truck	553624.2	6816231.7 2.5	10.2
Road truck	553632.5	6816230.6 2.5	10.2
Road truck	553640.8	6816229.5 2.5	10
Road truck	553649	6816228.4 2.5	10.1
Road truck	553657.2	6816227.3 2.5	10.2
Road truck	553665.3	6816226.2 2.5	10.3
Road truck	553673.5	6816225.1 2.5	10.3
Road truck	553681.6	6816224 2.5	10.4
Road truck	553689.7	6816223 2.5	10,5
Road truck	553697.8	6816221.9 2.5	10.5
Road truck	553706	6816220.8 2.5	10.5
Road truck Road truck	553714.1	6816219.7 2.5	9.9
Road truck	553722.2 553730.4	6816218.6 2.5 6816217.5 2.5	8.8
Road truck	553738.5	6816216.4 2.5	15.7 15.7
Road truck	553746.7	6816215.3 2.5	15.8
Road truck	553755	6816214.2 2.5	15.8
Road truck	553763.2	6816213.1 2.5	15.8
Road truck	553771.5	6816212 2.5	15.8
Road truck	553779.9	6816210.9 2.5	15.8
Road truck	553788.3	6816209.8 2.5	15.8
Road truck	553796.5	6816208.7 2.5	15.5
Road truck	553803.8	6816205.2 2.5	16
Road truck	553810.5	6816199.2 2.5	16
Road truck	553817	6816193.4 2.5	16
Road truck	553823.5 553829.9	6816187.6 2.5	16
Road truck Road truck	553836.3	6816181.9 2.5 6816176.3 2.5	16.1 16.1
Road truck	553842.6	6816170.7 2.5	16.1
Road truck	553847.4	6816166.3 2.5	13.6
HAUL TRUCK	553477	6816194 2.5	9
HAUL TRUCK	553467.7	6816195.8 2.5	9
HAUL TRUCK	553458.1	6816197.6 2.5	9
HAUL TRUCK	553448.4	6816199.4 2.5	8.7
HAUL TRUCK	553438.4	6816201.3 2.5	8.7
HAUL TRUCK	553428.1	6816203.2 2.5	8.7
HAUL TRUCK	553417.7	6816205.2 2.5	8.7
HAUL TRUCK	553406.9	6816207.2 2.5	8.8



HAUL '	TRUCK	553395.8	6816209.3	2.5		8.8
	TRUCK	553384.5	6816211.4	125		8.8
	TRUCK		6816213.6			8.8
	TRUCK	553360.7				9.2
	TRUCK		6816218.2			9.2
HAUL'	TRUCK	553335.4	6816220.6	2.5		9.2
HALIL.	TRUCK	553322.2	6816223.1	25		9.2
	TRUCK		6816225.7			9.2
	TRUCK	553294.2	6816228.3			9.2
HAUL	TRUCK	553279.5	6816231.1	2.5		9.2
HAUL	TRUCK	553264.1	6816234	2.5		9.2
	TRUCK		6816235.9			4.4
	TRUCK	553478.3				16.7
EXCAV	ATOR	553514.2	6816181.2	2.5		29.2
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
1	(m)	(m)	(m)	(m)		(dB(A))
D 4 4						
R4A	552797.6			16.9		30.7
Source	X Posn	Y Posn	Height		Noise Leve	el
	(m)	(m)	(m)		(dB(A))	
EXCAV		553506.2	6816195.1	2.5	(())	20.1
Generate		553406.4	6816251.5			15.8
LOADE	R	553348	6816171.5	2.5		16.9
LOADE	R	553334.5	6816179.3	2.5		16.9
LOADE	R	553321	6816187.2			16.9
						16.9
LOADE		553307.5	6816195	2.5		
LOADE	:R	553298.4	6816200.3	2.5		12.4
LOADE	R	553291	6816208	2.5		17.1
LOADE	R	553280.8	6816220.7	2.5		17.1
			6816233.6			17.1
LOADE		553270.4				
LOADE	.R	553259.9	6816246.6	2.5		17.1
LOADE	R	553249.3	6816259.8	2.5		17.1
Road tru	ick	553380.2	6816257.7	2.5		10.7
Road tru		553361.1	6816260.4			10.7
Road tru		553342.4	6816263.1			10.8
Road tru	ick	553324	6816265.7	2.5		10.8
Road tru	ick	553305.9	6816268.3	2.5		10.8
Road tru	ck	553292.5	6816270.2	2.5		7.9
Road tru		553289.6	6816257.8			12.6
Road tru		553291.2	6816244	2.5		2.3
Road tru	ick	553301	6816243	2.5		11.4
Road tru	ick	553320.8	6816243.4	2.5		11.4
Road tru		553341	6816243.8			11.3
Road tru		553359.3	6816244.2			10.2
Road tru	ick	553377.5	6816243.9	2.5		11.1
Road tru	ick	553398.2	6816243	2.5		11
Road tru	ck	553419.4	6816242	2.5		11
Road tru		553441.1	6816241	2.5		10.9
Road tru		553463.4	6816240	2.5		10.9
Road tru	ıck	553486.3	6816239	2.5		10.9
Road tru	ick	553509.9	6816237.9	2.5		10.8
Road tru	ick	553522.1	6816237.4	2.5		-8.6
Road tru		553535.4	6816243.6			10.4
Road tru		553558.6	6816240.5			10.4
Road tru	ick	553582.4	6816237.3	2.5		10.3
Road tru	ck	553606.9	6816234	2.5		10.3
Road tru		553632	6816230.7	2.5		10.2
		553657.9	6816227.2			10.2
Road tru						
Road tru		553684.6	6816223.6			10.1
Road tru	ck	553712.1	6816220	2.5		10.1
Road tru	ck	553740.6	6816216.2			10
Road tru		553770	6816212.2			10
						6.9
Road tru		553792.8	6816209.2			
Road tru		553808.8	6816200.8			8.4
Road tru	ck	553825.5	6816185.9	2.5		8.4
Road tru	ck	553841.5	6816171.6	2.5		7.9
HAUL T		553471.5	6816195.1			8.7
HAULT		553451.7	6816198.8			8.8
HAULT		553432.2				8.8
HAUL T	RUCK	553413.1	6816206	2.5		8.8
HAUL T		553394.4	6816209.5	2.5		8.8
HAULT		553376.1		2.5		8.9
HAUL T	RUCK	553358.1	6816216.3	2.3	i	8.9



HAUL'	TRUCK	553340.4	6816219.7	2.5		9
	TRUCK	553322.9				0
						9
	TRUCK	553305.8				9
	TRUCK	553288.9				
	TRUCK	553272.2	6816232.4	2.5		9
HAUL	TRUCK	553257.5	6816235.2	2.5		8.1
HAUL 1	TRUCK	553474.7	6816173.6	2.5		8.9
	TRUCK	553479.3	6816154	2.5		8.9
	TRUCK		6816140.1			5.4
	ATOR		6816181.2			20.2
EACAV	AIOK	333314.2	0010101.2	2.3		20.2
D .	V D	M D	** * 1 .	0 1		
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
R4B	552865.6	6815421	1.8	18.9		30.7
Source	X Posn	Y Posn	Height		Noise Leve	el
	(m)	(m)	(m)		(dB(A))	
EXCAV		553506.2		2.5	((//	20.4
Generate		553406.4				15.7
LOADE						
		553348.1				16.8
LOADE			6816179.3			16.8
LOADE			6816187.1			16.8
LOADE	R	553307.7	6816194.9	2.5		16.8
LOADE	R	553298.5	6816200.2	2.5		12.4
LOADE	R	553290.8	6816208.2	2.5		17.1
LOADE		553280.1				17.1
LOADE			6816235.1			17.1
LOADE			6816248.8			17.1
LOADE			6816261.1			15.9
Road tru	ck	553380.6	6816257.7	2.5		10.4
Road tru	ck	553362.2	6816260.3	2.5		10.5
Road tru	ck	553344.1	6816262.9	2.5		10.5
Road tru			6816265.4			10.5
Road tru			6816267.9			10.5
Road tru			6816270			8.9
Road tru			6816256.6			12.8
Road tru-	ck	553300.6	6816243	2.5		11.1
Road true	ck	553319.3	6816243.4	2.5		11
Road true	ck	553338.5	6816243.8	2.5		11
Road true	ck	553357.7				10.8
Road true		553377	6816243.9			10.8
Road true				2.5		10.7
Road true			6816242.1			10.7
Road true		553437	6816241.2			10.7
Road true	ck	553457.8	6816240.3	2.5		10.6
Road true	ck	553479.1	6816239.3	2.5		10.6
Road true	ck	553501	6816238.3	2.5		10.6
Road true	ck		6816237.6			7.1
Road true			6816243.7			10.2
Road true		553556.5	6816240.7			10.2
Road true		553578.8	6816237.8			10.1
Road true	ck	553601.6	6816234.7	2.5		10.1
Road true	ck	553624.9	6816231.6	2.5		10.1
Road true	ck	553648.8	6816228.4	2.5		10
Road true	ek -	553673.3	6816225.1	2.5		9.9
Road true		553698.5	6816221.8			9.9
Road true						
		553724.4	6816218.3			9.9
Road true		553751.1	6816214.8			9.8
Road true		553778.6	6816211.1			9.8
Road true	ck	553796.5	6816208.7	2.5	4	4.2
Road truc	k	553808.5	6816201	2.5	1	3.5
Road true	ck	553824.7	6816186.6	2.5		3.5
Road true		553841	6816172.1			3.5
HAUL T		553472.1		2.5		3.5
						3.5
HAUL T		553453.2	6816198.5			
HAUL T		553434.7		2.5		3.6
HAUL TI		553416.5	6816205.4			3.6
HAUL TI		553398.6	6816208.7	2.5	8	3.6
HAUL TI	RUCK	553380.9	6816212.1	2.5	8	3.6
HAUL TI		553363.5	6816215.3			3.7
HAUL TI		553346.4	6816218.5			3.7
HAUL TI		553329.4	6816221.7			3.7
HAUL TI		553312.7	6816224.9			3.7
HAUL TI	KUCK	553296.1	6816228	2.5	}	3.7



HAULT		553279.8	6816231	2.5		8.8
HAULT		553263.6	6816234.1	2.5		8.8
HAUL 7	TRUCK	553253.3	6816236	2.5		3.4
HAUL 7	FRUCK	553474.8	6816173.1	2.5		9.1
HAUL 7	TRUCK	553479.6	6816152.5	2.5		9.2
HAUL 7	TRUCK	553482.7	6816139.2	2.5		4.3
EXCAV	ATOR	553514.2	6816181.2	2.5		20.5
				NOS4111		
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
R5A	552762.8			24		33.7
Source	X Posn	Y Posn	Height		Noise Leve	1
D	(m)	(m)	(m)		(dB(A))	
EXCAV		553506.2	6816195.1			22.8
Generate		553406.4	6816251.5			19.1
LOADE		553348.9		2.5		18.9
LOADE		553337.2				18.9
LOADE		553325.7	6816184.4			18.9
LOADE		553314.5		2.5		18.9
LOADE		553303.5	6816197.3			18.9
LOADE		553297.1	6816201.1			11.8
LOADE		553292.7	6816205.9			18.4 18.4
LOADE		553285.8	6816214.4 6816222.8			
LOADE		553279.1				18.4
LOADE		553272.3	6816231.2			18.4
LOADE			6816239.6			18.4
LOADE		553258.8	6816248	2.5		18.4
LOADE		553252.1	6816256.3			18.4 17
LOADE		553246.4	6816263.5 6816257.8			14.1
Road tru Road tru		553379.9 553360.6	6816260.5			14.1 14.1
Road tru		553342	6816263.1			14.1
Road tru		553324.2	6816265.7			14.2
Road tru		553307.1	6816268.1			14.3
Road tru		553293.4		2.5		12.5
Road tru			6816264.4			13.4
Road tru		553290.3	6816251.7			13.4
Road tru		553291.2	6816244.1			5.7
Road tru		553301.8		2.5		15.5
Road tru		553323.5	6816243.5			15.5
Road tru		553346.4	6816243.9			15.4
Road tru		553362.9	6816244.3			1 1
Road tru	ck	553378.7	6816243.8	2.5		14.8
Road tru	ck	553402.4	6816242.8	2.5		14.8
Road tru	ck	553427.4	6816241.7	2.5		14.7
Road tru	ck	553453.9	6816240.5	2.5		14.6
Road tru	ck	553482.1	6816239.2	2.5		14.5
Road tru	ck	553509.4	6816238	2.5		13.6
Road tru		553537.7	6816243.3	2.5		13.6
Road tru			6816239.5			13.6
Road tru-			6816235.5			13.5
Road tru			6816231.2			13.4
Road tru			6816226.7			13.3
Road tru			6816221.8			13.2
Road tru			6816216.6			13.1
Road tru			6816211.1			13
Road tru			6816200.8			9.9
Road tru			6816185.7 6816171.5			9.8 9.1
Road tru HAUL T			6816195.4			11.9
HAUL T			6816199.7			11.9
HAUL T			6816203.8			12
HAUL T			6816207.7			12
HAUL T			6816211.4			2
HAUL T			6816215			12.1
HAUL T			6816218.4			12.2
HAUL T			6816221.7			2.2
HAUL T			6816224.9			12.2
HAUL T			6816227.9			12.3
HAUL T			6816230.8			2.3
HAUL T			6816233.6			2.3
HAUL T			6816235.7			0.6
HAUL T	RUCK	553473.9	6816176.9	2.5	Ş),5



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HAUL		553477	6816163.7			9.5
HAUL		553480.1	6816150.6	2.5		9.5
HAUL	TRUCK	553482.6	6816140	2.5		7.5
EXCAV	ATOR	553514.2	6816181.2	2.5		23.2
						00000000
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
receptor	(m)	(m)				
D.CD.			(m)	(m)		(dB(A))
R5B	552747.8			26.9		34
Source	X Posn	Y Posn	Height		Noise Leve	el
	(m)	(m)	(m)		(dB(A))	
EXCAV	ATOR	553506.2	6816195.1	2.5		22.5
Generato	or	553406.4	6816251.5	1		19.3
LOADE		553348.4				19.5
LOADE		553335.8				19.5
LOADE		553323.5		2.5		19.5
LOADE	R	553311.7	6816192.6	2.5		19.5
LOADE	R	553300.9	6816198.8	2.5		18.8
LOADE	R	553292.7				18.7
LOADE		553286	6816214.2			18.7
LOADE			6816222.4			18.7
LOADE	R	553272.8	6816230.6	2.5		18.7
LOADEI	R	553266.3	6816238.7	2.5		18.7
LOADEI	R	553259.8	6816246.7	2.5		18.7
LOADEI	3		6816254.7			18.7
LOADEI		553247.1	6816262.6			
						18.6
Road true		553378.5	6816258	2.5		15
Road true	ek	553356.6	6816261.1	2.5		15.1
Road true	ek	553335.9	6816264	2.5		15.2
Road true	ck	553316.2	6816266.8	2.5		15.2
Road true	rk		6816269.5			15.3
Road true						
		553288.2				1.2
Road true		553288.7	6816265.1			13.4
Road true	ek	553290	6816253.8	2.5		13.4
Road true	ck	553291	6816245.5	2.5		10.3
Road truc	ck	553304.2	6816243.1	2.5		16.9
Road truc		553331.3	6816243.6			16.8
Road truc						
			6816244.1			15.3
Road truc		553381.1	6816243.7			16
Road truc	ck	553410.2	6816242.4	2.5		15.9
Road truc	k	553441.5	6816241	2.5	1	15.8
Road truc	k	553475.5	6816239.5	2.5	1	15.7
Road truc		553507.7		2.5		14.4
Road truc		553540.2	6816242.9			
						14.5
Road true		553574.3	6816238.4			14.5
Road truc		553611	6816233.5	2.5]	14.4
Road truc	:k	553650.6	6816228.2	2.5	1	14.2
Road true	k	553693.7	6816222.4	2.5	1	14.1
Road truc	k	553740.6	6816216.2	2.5		14
Road truc		553782.8	6816210.5			12.1
Road truc			6816200.4			
						10.1
Road truc		553827	6816184.5			10.1
Road truc		553842.6	6816170.6	2.5	8	3.5
HAUL TI	RUCK	553467.4	6816195.8	2.5	1	2.8
HAUL TI	RUCK	553440.4	6816200.9	2.5	1	2.9
HAUL TH	RUCK		6816205.7			2.9
HAUL TH			6816210.1			3
HAUL TE						
			6816214.4			3
HAUL TE			6816218.3			3.1
HAUL TE			6816222.1			3.2
HAUL TF	RUCK	553308.3	6816225.7	2.5	1	3.2
HAUL TE	RUCK	553290.2	6816229.1	2.5	1	3.2
HAUL TE			6816232.3			3.3
HAUL TE			6816235.2			2.6
HAUL TE						
			6816177.1			2.5
HAUL TR			6816164.3			2.5
HAUL TR			6816151.5			2.5
HAUL TR	RUCK	553482.4	6816140.5	2.5	8	.1
EXCAVA	TOR	553514.2	6816181.2	2.5	2	3.7



Receptor	X Posn (m)	Y Posn (m)	Height (m)	Ground (m)		Noise Level (dB(A))
R6A Source	552849.5 X Posn	6816597 Y Posn	1.8 Height	7.7	Noise Lev	34.8 el
EXCAV	(m)	(m) 553506.2	(m) 6816195.1	2.5	(dB(A))	22.8
Generat		553406.4				19.7
LOADE		553327.9				26.2
LOADE			6816199.6			18.3
LOADE			6816224.6 6816256.2			26.9 24.5
LOADE Road tru			6816258.2			17.4
Road tru			6816261.8			17.5
Road tru			6816265.1			17.5
Road tru Road tru			6816268.2			17.6 13.9
Road tru			6816270.2 6816264.2			15.9
Road tru			6816250.7			15.9
Road tru			6816243.3			4.4
Road tn		553299.1				16.2
Road tru Road tru		553332	6816243.3 6816243.6			16.1 16.1
Road tru		553349.6	6816244	2.5		16
Road tru		553363	6816244.3	2.5		12.7
Road tru		553378	6816243.9			16.4
Road tru Road tru		553400 553423.4	6816242.9 6816241.8			16.3 7.9
Road tru		553448.3	6816240.7			16.1
Road tru		553474.9				16.1
Road tru		553503.4				16
Road tru		553520.3				6.9
Road tru Road tru		553586.5	6816242.4 6816236.7			16.8 16.7
Road tru		553633.8				16.6
Road tru	ick	553686.7	6816223.4	2.5		16.3
Road tru		553746.3	6816215.4			16.2
Road tru Road tru		553789.6	6816209.6 6816189.8			11.1 14.8
Road tru		553845.9	6816167.7			6.3
HAUL		553464.8				14.4
HAUL		553433.1	6816202.3			14.5
HAUL T			6816207.7 6816212.8			14.6 14.7
HAUL 1			6816217.5			14.8
HAULT			6816221.9			14.9
HAUL 7		553306.4		2.5		15
HAULT		553285.9	6816229.9			15 15.1
HAUL T		553266.6 553254.1	6816233.5 6816235.8			10.7
HAULT		553474.6	6816174.2			11.8
HAULT		553479.1	6816154.9			11.8
HAULT		553482.4 553514.2	6816140.5 6816181.2			8.3 21.7
EXCAV	ATOR	333314.2	0010101.2	4.3		21.7
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
D/D	(m)	(m)	(m)	(m)		(dB(A))
R6B Source	552715.7 X Posn	6816554.2 Y Posn	Height	10.6	Noise Leve	33.5
Source	(m)	(m)	(m)		(dB(A))	
EXCAV	ATOR	553506.2	6816195.1		, 177	22
Generate		553406.4	6816251.5			18.3 25.5
LOADE LOADE		553324.1 553285.4	6816185.4 6816214.9			23.1
LOADE		553265.6	6816239.6			23.1
LOADE	R	553250	6816258.9	2.5		21.6
Road tru		553367.1	6816259.6			18.1
Road tru Road tru		553325.5 553297.1	6816265.5 6816269.5			18.2 15.4
Road tru		553288.8	6816264.2			14.1
Road tru		553290.4	6816250.6	2.5		14.1
Road tru		553291.3	6816243.3			2.4
Road tru	ck	553303.1	6816243	2.5		16.2



Road tr	uck	553327.7	6816243.5	5 2.5		16.1
Road tr	uck	553353.8	6816244.1	2.5		16
Road tr		553383.9				16.6
Road to		553419.2				16.4
Road tr		553457.8				16.3
Road tr			6816238.4			16.1
Road tr	uck	553557.8	6816240.6	5 2.5		17.4
Road tri	uck	553633.7	6816230.4	1 2.5		17.2
Road tri	uck	553723.4	6816218.5	5 2.5		16.9
Road tri	nck	553787.5				10.5
Road tr		553819.1				13
Road tn			6816169.6			7.3
	TRUCK	553453.8				15.2
	TRUCK	553403.1	6816207.9	2.5		15.4
	TRUCK	553358.3	6816216.3	2.5		15.6
HAUL	TRUCK	553318.2	6816223.8	3 2.5		15.7
HAUL'	TRUCK	553282.2	6816230,6	2.5		15.8
HAUL.	TRUCK	553258.2	6816235.1	25		12.5
	TRUCK	553474.6	6816174.2			10.4
	TRUCK					
		553479	6816155.2			10.3
	TRUCK	553482.4				7.2
EXCAV		553514.2	6816181.2			22.4
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
R5B	552747.8	6815977.7		26.9		34.4
Source	X Posn	Y Posn	Height	20.5	Noise Leve	
Boarce			-		10 - 41-41	
EVOLV	(m)	(m)	(m)	0.0	(dB(A))	22.7
EXCAV			6816181.2			23.7
Generate	or	553406.4	6816251.5	1		19.3
LOADE	R	553348.4	6816171.3	2.5		19.5
LOADE	R	553335.8	6816178.6	2.5		19.5
LOADE	R	553323.5	6816185.7	2.5		19.5
LOADE			6816192.6			19.5
LOADE			6816198.8			18.8
LOADE			6816205.9			18.7
LOADE		553286	6816214.2			18.7
LOADE	R	553279.4	6816222.4	2.5		18.7
LOADE	R '	553272.8	6816230.6	2.5		18.7
LOADE	R.	553266.3	6816238.7	2.5		18.7
LOADE			6816246.7			18.7
LOADE			6816254.7			18.7
LOADE						18.6
		553247.1	6816262.6			
Road tru		553378.5				15
Road tru	ick	553356.6	6816261.1	2.5		15.1
Road tru	ick	553335.9	6816264	2.5		15.2
Road tru	ck	553316.2	6816266.8	2.5		15.2
Road tru	ck	553297.4				15.3
Road tru		553288.2	6816270.8			-1.2
Road tru						
		553288.7	6816265.1			13.4
Road tru		553290	6816253.8			13.4
Road tru		553291	6816245.5			10.3
Road tru	ck	553304.2	6816243.1	2.5		16.9
Road tru	ck	553331.3	6816243.6	2.5		16.8
Road tru	ck	553356.4	6816244.1	2.5		15.3
Road tru	ck	553381.1	6816243.7			16
Road tru		553410.2	6816242.4			15.9
Road tru		553441.5		2.5		15.8
			6816241			
Road tru		553475.5	6816239.5			15.7
Road tru		553507.7	6816238	2.5		14.4
Road tru	ck	553540.2	6816242.9	2.5		14.5
Road tru	ck	553574.3	6816238.4	2.5		14.5
Road tru	ck	553611	6816233.5	2.5		14.4
Road tru		553650.6	6816228.2			14.2
Road tru		553693.7	6816222.4			14.1
Road tru		553740.6	6816216.2			14
Road tru		553782.8	6816210.5			12.1
Road tru		553809.2	6816200.4			10.4
Road tru	ck	553827	6816184.5	2.5		10.1
Road tru-	ck	553842.6	6816170.6	2.5		8.5
HAUL T	RUCK	553467.4	6816195.8			12.8
HAUL T			6816200.9			12.9
HAULT		553415	6816205.7			12.9
HAUL T						
HAULI	KUCK	553391.2	6816210.1	2.3		13



HAUL'	TRUCK	553368.7	6816214.4	2.5	13
HAUL'	TRUCK	553347.5	6816218.3	2.5	13.1
HAUL'	TRUCK	553327.4	6816222.1	2.5	13.2
HAUL'	TRUCK	553308.3	6816225.7	2.5	13.2
	TRUCK	553290.2	6816229.1		13.2
	TRUCK	553273	6816232.3		13.3
	TRUCK	553257.7			12.6
	TRUCK	553470.2	6816176.1		10.2
	TRUCK	553465.8	6816161.5		10.2
	TRUCK	553461.5	6816147.2		10.3
	TRUCK	553457.3	6816133.2		10.3
	TRUCK	553453.1	6816119.4		10.3
	TRUCK	553449.1 553445.1	6816105.9		10.3
	TRUCK	553441.2	6816092.6 6816079.6		10.3 10.3
	TRUCK TRUCK	553437.4	6816066.8		10.3
	TRUCK	553433.6			10.4
	TRUCK	553429.8	6816041.7		10.4
	TRUCK	553426.2	6816029.4		10.4
	TRUCK	553422.5	6816017.3		10.4
	TRUCK	553418.9			10.4
	TRUCK	553415.4			10.4
	TRUCK	553411.9	6815981.9		10.4
HAUL	TRUCK	553408.4	6815970.3	2.5	10.4
	TRUCK	553405	6815958.9	2.5	10.4
	TRUCK	553401.6	6815947.6	2.5	10.4
	TRUCK	553398.2	6815936.3		10.4
HAUL'	TRUCK	553394.9	6815925.2	2.5	10.4
HAUL	TRUCK	553391.6	6815914.1	2.5	10.4
HAUL 1	TRUCK	553389.4	6815906.8	2.5	5.8
EXCAV	ATOR	553514.2	6816181.2	2.5	23.7
Dagantar	V Doon	V Doen	Haight	Ground	Noise Level
Receptor	X Posn (m)	Y Posn (m)	Height (m)	(m)	(dB(A))
R6A	552849.5	6816597	1.8	7.7	35
Source	X Posn	Y Posn	Height	Noise Lev	
Source	(m)	(m)	(m)	(dB(A))	
EXCAV	(m) ATOR	(m) 553514.2	(m) 6816181.2	(dB(A))	21.7
	ATOR			2.5	21.7 19.7
EXCAV	ATOR or	553514.2 553406.4	6816181.2	2.5	
EXCAV Generate	ATOR or CR	553514.2 553406.4 553327.9 553299.7	6816181.2 6816251.5 6816183.2 6816199.6	2.5 1 2.5 2.5	19.7
EXCAV Generate LOADE	ATOR or CR CR	553514.2 553406.4 553327.9 553299.7 553277.6	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6	2.5 1 2.5 2.5 2.5	19.7 26.2
EXCAV Generat LOADE LOADE	ATOR or ER ER ER	553514.2 553406.4 553327.9 553299.7 553277.6	6816181.2 6816251.5 6816183.2 6816199.6	2.5 1 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5
EXCAV Generat LOADE LOADE LOADE LOADE Road tru	ATOR or ER ER ER ER	553514.2 553406.4 553327.9 553299.7 553277.6 553252.2 553376.6	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4
EXCAV Generat LOADE LOADE LOADE LOADE Road tru Road tru	ATOR or ER ER ER ER er er	553514.2 553406.4 553327.9 553299.7 553277.6 553252.2 553376.6 553351.6	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816261.8	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4
EXCAV Generat LOADE LOADE LOADE LOADE Road tru Road tru Road tru	ATOR OF ER ER ER ER ER LR LR LR LR LR	553514.2 553406.4 553327.9 553299.7 553277.6 553252.2 553376.6 553351.6 553328.4	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816261.8 6816265.1	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.5
EXCAV Generate LOADE LOADE LOADE LOADE Road tra Road tra Road tra	ATOR or CR CR CR CR CR cck cck cck cck	553514.2 553406.4 553327.9 553299.7 553252.2 553376.6 553351.6 553328.4 553306.7	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816261.8 6816265.1 6816268.2	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.5
EXCAV Generate LOADE LOADE LOADE Road tra Road tra Road tra Road tra Road tra	ATOR or CR CR CR CR CR cck cck cck cck cck	553514.2 553406.4 553327.9 553299.7 553277.6 553252.2 553376.6 553351.6 553328.4 553306.7 553292.2	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816261.8 6816265.1 6816268.2 6816270.2	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9
EXCAV Generate LOADE LOADE LOADE Road trn Road trn Road trn Road trn Road trn Road trn Road trn	VATOR or ER ER ER ER eck eck eck eck eck eck	553514.2 553406.4 553327.9 553299.7 553277.6 553252.2 553376.6 553328.4 553306.7 553292.2 55328.8	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816265.1 6816265.1 6816264.2 6816264.2	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9
EXCAV Generate LOADE LOADE LOADE Road trn Road trn Road trn Road trn Road trn Road trn Road trn Road trn Road trn	VATOR or ER ER ER eck eck eck eck eck eck eck eck	553514.2 553406.4 553327.9 553299.7 553277.6 553252.2 553376.6 553328.4 553306.7 553292.2 55328.8 553290.4	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816265.1 6816265.1 6816264.2 6816270.2	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9
EXCAV Generate LOADE LOADE LOADE Road tra Road tra	VATOR or ER ER ER eck	553514.2 553406.4 553327.9 553299.7 553277.6 553252.2 553376.6 553351.6 553328.4 553306.7 553292.2 553288.8 553290.4 553291.3	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816265.1 6816265.1 6816264.2 6816270.2 6816264.2 6816243.3	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 4.4
EXCAV Generate LOADE LOADE LOADE Road tra Road R	ATOR or CR CR CR CR CR clck clck clck clck clck clck clck clc	553514.2 553406.4 553327.9 553299.7 553277.6 553252.2 553376.6 553351.6 553328.4 553292.2 553288.8 553290.4 553291.3 553299.1	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816261.8 6816265.2 6816270.2 6816264.2 6816243.3 6816243.3	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2
EXCAV Generate LOADE LOADE LOADE Road tra	ATOR or ER ER ER ER eck	553514.2 553406.4 553327.9 553299.7 553277.6 553252.2 553376.6 553351.6 553328.4 553292.2 553292.2 553290.4 553291.3 553299.1 553315.2	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816261.8 6816265.2 6816270.2 6816270.2 6816243.3 6816243.3	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1
EXCAV Generate LOADE LOADE LOADE Road tra	VATOR or ER ER ER ck cck cck cck cck cc	553514.2 553406.4 553327.9 553299.7 553277.6 553252.2 553376.6 553328.4 553306.7 553292.2 553282.2 553290.4 553291.3 553299.1 553315.2 553332	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816261.8 6816265.1 6816264.2 6816250.7 6816243.3 6816243.3	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 15.9 4.4 16.2 16.1
EXCAV Generate LOADE LOADE LOADE LOADE Road tra	VATOR or ER ER ER ck ck ck ck ck ck ck ck ck c	553514.2 553406.4 553327.9 553299.7 553252.2 553376.6 553351.6 553328.4 553306.7 553292.2 553292.2 553290.4 553291.3 553299.1 553315.2 553332 553349.6	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816265.1 6816265.1 6816264.2 6816250.7 6816243.3 6816243.3 6816243.4	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 15.9 4.4 16.2 16.1 16,1
EXCAV Generate LOADE LOADE LOADE LOADE Road tra	VATOR or GR GR GR cek cek cek cek cek cek cek ce	553514.2 553406.4 553327.9 553299.7 553252.2 553376.6 553351.6 553328.4 553292.2 553288.8 553290.4 553291.3 553315.2 553315.2 553349.6 553363	6816181.2 6816251.5 6816183.2 6816199.6 6816254.6 6816256.2 6816258.2 6816261.8 6816262.6 6816263.2 6816243.3 6816243.3 6816243.3 6816243.4 6816244.3	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16,1 16
EXCAV Generate LOADE LOADE LOADE LOADE Road tra	VATOR or GR GR GR GR GR GR GR GR GR G	553514.2 553406.4 553327.9 553299.7 553252.2 553376.6 553351.6 553328.4 553292.2 553290.4 553291.3 553299.1 553299.1 553315.2 553349.6 553363 553378	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816265.1 6816265.1 6816264.2 6816250.7 6816243.3 6816243.3 6816243.4	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 15.9 4.4 16.2 16.1 16,1
EXCAV Generate LOADE LOADE LOADE Road tra Road R	VATOR or GR GR GR GR GR GR GR GR GR G	553514.2 553406.4 553327.9 553299.7 553252.2 553376.6 553351.6 553328.4 553292.2 553288.8 553290.4 553291.3 553315.2 553315.2 553349.6 553363	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816258.2 6816258.2 6816261.8 6816265.1 6816263.2 6816270.2 6816243.3 6816243.3 6816243.4 6816243.4 6816243.4 6816243.4	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 15.9 4.4 16.2 16.1 16 12.7 16.4
EXCAV Generate LOADE LOADE LOADE LOADE Road tra	VATOR or GR GR GR GR GR GR GR GR GR G	553514.2 553406.4 553327.9 553299.7 553252.2 553376.6 553351.6 553328.4 553292.2 553290.4 553291.3 553299.1 553315.2 553349.6 553363 553378 553400	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816261.8 6816265.1 6816264.2 6816243.3 6816243.3 6816243.4 6816243.4 6816244.3 6816244.3 6816244.3	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 15.9 4.4 16.2 16.1 16 12.7 16.4 16.3
EXCAV Generate LOADE LOADE LOADE Road tra Road R	VATOR or GR GR GR GR GR GR GR GR GR G	553514.2 553406.4 553327.9 553299.7 553252.2 553376.6 553328.4 553306.7 553292.2 553290.4 553291.3 553299.1 553315.2 553332 553332 553333 553340 553400 553423.4	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816265.1 6816265.1 6816264.2 6816244.3 6816243.3 6816243.3 6816244.3 6816244.3 6816244.3 6816244.3	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 15.9 4.4 16.2 16.1 16.1 16.1 16.1 17.5 17.6 18.9 19.9 19.9 19.9
EXCAV Generate LOADE LOADE LOADE Road tra Road R	VATOR or CR CR CR CR cck cck cck cck cc	553514.2 553406.4 553327.9 553299.7 553277.6 553252.2 553376.6 553328.4 553329.4 553290.4 553291.3 553299.1 553332 553332 553332 553332 553349.6 553378 553400 553423.4 553448.3	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816265.1 6816265.1 6816264.2 6816243.3 6816243.3 6816244.3 6816244.8 6816244.8 6816244.8 6816243.9 6816243.9	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16,1 16 12.7 16.4 16.3 7.9 16.1 16.1 16.1
EXCAV Generate LOADE LOADE LOADE Road tra Road R	VATOR or CR CR CR CR cck cck cck cck cc	553514.2 553406.4 553327.9 553299.7 553277.6 553252.2 553376.6 553351.6 553306.7 553292.2 553299.1 553299.1 553315.2 553332 553349.6 553378 553400 553448.3 553448.3 553448.3 553444.9 553503.4	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816258.2 6816258.2 6816265.2 6816265.2 6816263.2 6816243.3 6816243.3 6816243.3 6816244.8 6816244.8 6816244.8 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16,1 16 12.7 16.4 16.3 7.9 16.1 16.1 16.1 16 6.9
EXCAV Generate LOADE LOADE LOADE LOADE Road tra	VATOR or CR CR CR cR ck cck cck cck cck	553514.2 553406.4 553327.9 553299.7 553277.6 553252.2 553376.6 553351.6 553328.4 553306.7 553292.2 553299.1 553299.1 553315.2 553332 553349.6 553363 553400 553448.3 553448.3 553474.9 553503.4 55350.3 55350.3	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816258.2 6816258.2 6816265.2 6816265.2 68162670.2 6816243.3 6816243.3 6816243.4 6816244.4 6816244.9 6816241.8 6816241.8 6816242.9 6816241.8 6816242.9 6816237.5 6816237.5 6816237.5	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16 12.7 16.4 16.3 7.9 16.1 16.1 16 6.9 16.8
EXCAV Generate LOADE LOADE LOADE LOADE Road tra	VATOR or GR GR GR GR GR GR GR GR GR G	553514.2 553406.4 553327.9 553299.7 553252.2 553376.6 553351.6 553328.4 553292.2 553290.4 553291.3 553291.3 553291.3 553291.3 553293.1 553349.6 553448.3 553448.3 553448.9 55350.3 55350.3 55350.3 55350.3 55350.3 55350.3	6816181.2 6816251.5 6816183.2 6816199.6 6816256.2 6816256.2 6816258.2 6816261.8 6816262.3 6816263.2 6816264.2 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16 12.7 16.4 16.3 7.9 16.1 16.1 16 16.7
EXCAV Generate LOADE LOADE LOADE LOADE Road tra	VATOR or GR GR GR GR GR GR GR GR GR G	553514.2 553406.4 553327.9 553299.7 553252.2 553376.6 553351.6 553328.4 553292.2 553292.2 553291.3 553299.1 553299.1 55329.2 553315.2 553349.6 553448.3 553448.3 553444.9 55350.3 55350.3 55350.3 55350.3	6816181.2 6816251.5 6816183.2 6816199.6 6816256.2 6816256.2 6816258.2 6816261.8 6816261.8 6816263.2 6816264.2 6816243.3 6816243.3 6816243.4 6816243.9 6816244.8 6816240.7 6816239.5 6816239.5 6816239.5 6816237.5 6816230.4	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 15.9 4.4 16.2 16.1 16 12.7 16.4 16.3 7.9 16.1 16.1 16 6.9 16.8 16.7 16.6
EXCAV Generate LOADE LOADE LOADE Road tra	VATOR or GR GR GR GR GR GR GR GR GR G	553514.2 553406.4 553327.9 553299.7 553252.2 553376.6 553351.6 553328.4 553292.2 553292.2 553290.4 553291.3 553299.1 553315.2 553315.2 553340.6 553448.3 553448.3 553448.3 553448.3 553448.3 553543.9 553543.9 553586.5 553686.7	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816258.2 6816258.2 6816261.8 6816265.1 6816263.2 6816264.2 6816243.3 6816243.3 6816243.4 6816244.8 6816244.8 6816244.8 6816240.7 6816239.5 6816239.5 6816239.4 6816230.4 6816230.4	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 15.9 4.4 16.2 16.1 16.1 16 12.7 16.4 16.3 7.9 16.1 16.1 16 6.9 16.8 16.7 16.6 16.3
EXCAV Generate LOADE LOADE LOADE Road tra	VATOR or GR GR GR GR GR GR GR GR GR G	553514.2 553406.4 553327.9 553299.7 553252.2 553376.6 553351.6 553352.2 55336.7 553292.2 553290.4 553291.3 553299.1 553315.2 553349.6 553448.3 553448.3 553448.3 553448.3 553448.3 553448.3 55345.4 553520.3 553534.3 553586.5 553686.7 553746.3	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816258.2 6816258.2 6816265.1 6816265.1 6816263.2 6816243.3 6816243.3 6816243.3 6816243.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 681623.5 681623.5 681623.4 681623.4 681623.4	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 15.9 4.4 16.2 16.1 16.1 16.1 16 6.9 16.8 16.7 16.6 16.3 16.2
EXCAV Generate LOADE LOADE LOADE Road tra	VATOR or GR GR GR GR GR GR GR GR GR G	553514.2 553406.4 553327.9 553299.7 553297.6 553252.2 553376.6 553328.4 553329.4 553290.4 553291.3 553299.1 553315.2 5533363 5533400 553423.4 553448.3 553448.3 553448.3 553448.3 553520.3 5535343.9 5535343.9 553686.7 553746.3 553789.6	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816258.2 6816258.2 6816265.1 6816265.1 6816265.2 6816263.2 6816243.3 6816243.3 6816243.3 6816244.3 6816244.3 6816244.3 6816244.3 6816245.4 6816240.7 6816239.5 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 15.9 4.4 16.2 16.1 16.1 16 19 16.8 16.7 16.6 16.3 16.2 11.1
EXCAV Generate LOADE LOADE LOADE LOADE Road tra	VATOR or GR GR GR GR GR GR GR GR GR G	553514.2 553406.4 553327.9 553299.7 553297.6 553252.2 553376.6 553328.4 553329.4 553290.4 553291.3 553299.1 553315.2 553332 553349.6 553448.3 553444.9 553534.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 553789.6 553789.6 553789.6	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816265.1 6816265.1 6816263.2 6816243.3 6816243.3 6816244.3 6816244.3 6816244.3 6816244.3 6816245.4 6816245.4 6816240.7 6816239.5 6816230.4 6816230.4 6816230.4 6816230.4 6816223.4 6816223.4 6816223.4 6816223.4 6816223.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16 12.7 16.4 16.3 7.9 16.1 16.1 16 6.9 16.8 16.7 16.6 16.3 16.2 11.1 14.8
EXCAV Generate LOADE LOADE LOADE Road tra Road t	VATOR or CR CR CR CR CR CR CR CR CR C	553514.2 553406.4 553327.9 553299.7 553297.6 553252.2 553376.6 553328.4 553329.4 553290.4 553291.3 553299.1 553315.2 553349.6 553349.6 553448.3 5534448.3 553474.9 553533.4 55353.4	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816265.1 6816265.1 6816265.2 6816243.3 6816243.3 6816243.4 6816244.4 6816244.8 6816244.8 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 681627.5	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16 12.7 16.4 16.3 7.9 16.1 16.1 16 6.9 16.8 16.7 16.6 16.3 16.2 11.1 14.8 6.3
EXCAV Generate LOADE LOADE LOADE LOADE Road tra	VATOR or CR CR CR CR CR CR CR CR CR C	553514.2 553406.4 553327.9 553299.7 553297.6 553252.2 553376.6 553328.4 553329.4 553290.4 553291.3 553299.1 553315.2 553332 553349.6 553448.3 553444.9 553534.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 55353.4 553789.6 553789.6 553789.6	6816181.2 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816265.1 6816265.1 6816263.2 6816243.3 6816243.3 6816244.3 6816244.3 6816244.3 6816244.3 6816245.4 6816245.4 6816240.7 6816239.5 6816230.4 6816230.4 6816230.4 6816230.4 6816223.4 6816223.4 6816223.4 6816223.4 6816223.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.7 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16 12.7 16.4 16.3 7.9 16.1 16.1 16 6.9 16.8 16.7 16.6 16.3 16.2 11.1 14.8



HAUL TRUCK	553403.9	6816207.	7 2.5		14.6
HAUL TRUCK		6816212.			14.7
HAUL TRUCK		6816217.			14.8
HAUL TRUCK	553328.3	6816221.	9 2.5		14.9
HAUL TRUCK	553306.4	6816226	2.5		15
HAUL TRUCK		6816229.			15
HAUL TRUCK		6816233.			15.1
HAUL TRUCK	553254.1				10.7
HAUL TRUCK		6816177			10.4
HAUL TRUCK	553466.5				10.4
HAUL TRUCK	553462.5				10.4
HAUL TRUCK HAUL TRUCK	553458.4				10.3
HAUL TRUCK	553450.1	6816123 6816109			10.3 10.3
HAUL TRUCK	553445.9				10.3
HAUL TRUCK		6816080.5			10.3
HAUL TRUCK		6816066.4			10.3
HAUL TRUCK		6816051.			10.2
HAUL TRUCK	553428.3				10.2
HAUL TRUCK	553423.7				10.2
HAUL TRUCK	553419	6816005.	7 2.5		10.2
HAUL TRUCK	553414.3	6815989.8	3 2.5		10.2
HAUL TRUCK	553409.4	6815973.5	5 2.5		10.1
HAUL TRUCK	553404.4	6815956.9	9 2.5		10.1
HAUL TRUCK	553399.3		2.5		10
HAUL TRUCK	553394.1				10
HAUL TRUCK		6815909.3			7
EXCAVATOR	553514.2	6816181.2	2 2.5		21.7
Receptor X Posn	Y Posn	Height	Ground		Noise Level
(m)	(m)	(m)	(m)		(dB(A))
R6B 552715.7			10.6		33.8
Source X Posn	Y Posn	Height		Noise Lev	
(m)	(m)	(m)		(dB(A))	
EXCAVATOR	553514.2	6816181.2	2 2.5		22.4
Generator	553406.4				18.3
LOADER	553324.1				25.5
LOADER	553285.4	6816214.9			23.1
LOADER	553265.6				23.1
LOADER	553250	6816258.9			21.6
Road truck Road truck	553367.1				18.1 18.2
Road truck	553325.5 553297.1				15.4
Road truck	553288.8				14.1
Road truck	553290.4				14.1
Road truck		6816243.3			2.4
Road truck	553303.1	6816243	2.5		16.2
Road truck	553327.7	6816243.5	2.5		16.1
Road truck	553353.8	6816244.1	2.5		16
Road truck	553383.9	6816243.6	2.5		16.6
Road truck	553419.2	6816242	2.5		16.4
Road truck	553457.8	6816240.3			16.3
Road truck	553499.8	6816238.4			16.1
Road truck	553557.8	6816240.6			17.4
Road truck Road truck	553633.7 553723.4	6816230.4 6816218.5			17.2 16.9
Road truck	553787.5	6816209.9			10.5
Road truck	553819.1	6816191.6			13
Road truck	553843.8	6816169.6			7.3
HAUL TRUCK	553453.8	6816198.4			15.2
HAUL TRUCK	553403.1	6816207.9			15.4
HAUL TRUCK	553358.3	6816216.3	2.5		15.6
HAUL TRUCK	553318.2	6816223.8	2.5		15.7
HAUL TRUCK	553282.2	6816230.6	2.5		15.8
HAUL TRUCK	553258.2	6816235.1			12.5
HAUL TRUCK	553470.2	6816176.4			9.4
HAUL TRUCK	553465.9	6816162	2.5		9.3
HAUL TRUCK HAUL TRUCK	553461.6	6816147.6			9.3 9.3
HAUL TRUCK	553457.2 553452.8	6816133 6816118.3	2.5		9.3
HAUL TRUCK	553448.4	6816103.5			9.3
HAUL TRUCK	553443.9	6816088.5			9.3
HAUL TRUCK	553439.4	6816073.4			9.3



HAUL TRUCK	553434.8	6816058.2 2.5	9.3
HAUL TRUCK	553430.2	6816042.7 2.5	9.3
HAUL TRUCK	553425.5	6816027.1 2.5	9.3
HAUL TRUCK	553420.7	6816011.3 2.5	9.2
HAUL TRUCK	553415.9	6815995.3 2.5	9.2
HAUL TRUCK	553411	6815979 2.5	9.2
HAUL TRUCK	553406.1	6815962.5 2.5	9.2
HAUL TRUCK	553401.1	6815945.8 2.5	9.1
HAUL TRUCK	553396	6815928.7 2.5	9.1
HAUL TRUCK	553391.1	6815912.5 2.5	8.5
EXCAVATOR	553514.2	6816181.2 2.5	22.4

SOUTH BOUNDARY

File;Z:\CRG ACOUSTICS\ACOUSTIC JOBS\10453a Sandmine Lennox Head\10453a_sandmine april 2012 s.PEN

File Description:Data file covering south

Tuesday 05 Mar, 2013 at 12:17:41

Environmental Calculations

All point and line sources included. Line source segmentation angle: 1 degrees. Calculations for specified meteorology.

Noise level results are the logarithmic addition of all the noise sources

Noise level results incorporate the incoherent ground reflection algorithm

Meteorology:

Wind speed 0.0 (m/s) Wind direction 0 Mast height 10.0 (m)

Temperature 20.0 (C) Temperature Gradient 0.0 (C/100m) Humidity 50.0 (%)

Surface Roughness of terrain 0.023000000 (m) Zero plane offset 0.080000000 (m)

Receptor		Y Posn	Height	Ground		Noise Level
Receptor	(m)	(m)	(m)	(m)		(dB(A))
R1	553772.1	6815867.2		3		38.5
Source	X Posn	Y Posn	Height		Noise Leve	
Source	(m)	(m)	(m)		(dB(A))	.1
EXCAN	VATOR		6815905.2	25		30
General		553406.4				22.1
	VATOR		6815909.1			27.9
LOADI		553327.3	6816183.5			23
LOADI			6816216.4			20.1
LOADI		553258.3	6816248.7			21.3
Road tr		553382	6816257.5			16.9
Road tr		553365.8	6816259.8			16.8
Road tr		553348.8	6816262.2			16.8
Road tr		553330.8	6816264.7			16.7
Road tr		553330.8	6816267.4			16.7
Road tr		553295.1	6816269.8			9.7
Road tr			6816262.9			10.1
Road tr		553290.6	6816248.9			9.2
Road tr		553299.7	6816243	2.5		10.6
Road tr			6816243.3			10.7
Road tr		553331.4	6816243.6			10.7
Road tr			6816243.9			16.2
Road tr		553360.5	6816244.2			16.2
Road tr		553374.8	6816244			16.6
Road tr		553389.1	6816243.4			16.6
Road tr		553402.8	6816242.8			16.7
Road tr		553416.1	6816242.2			16.7
Road tr		553428.8				16.8
Road tr		553441.2	6816241	2.5		16.8
Road tr		553453.1	6816240.5			16.8
Road tr		553464.6	6816240.3			16.9
Road tr		553475.8	6816239.5			16.9
Road tr		553486.6	6816239.3			16.9
Road tr		553497.2	6816238.5			16.9
Road tr		553507.4	6816238.1			17
Road tr		553517.4				17
Road tr		553517.4	6816237.4			-10.8
Road tr			6816244.4			17.2
Road to		553539.3	6816243.1			17.3
Road to		553549	6816241.8			17.3
Road tr		553558.5	6816240.5			17.4
Road tr		553567.7	6816239.2			17.4
Road tr				2.5		17.4
Road tr			6816236.9			17.4
Road tr		553594.1	6816235.7			17.4
Road tr			6816234.6			17.4
Road tr			6816233.5			17.5
Road tri			6816232.4			17.5
Road III	IICK	333010.7	0010232.4	4.3		11.5



Road truck	553626.6	6816231.4 2.5	17.5
Road truck	553634.3		17.5
Road truck	553641.9		17.5
Road truck	553649.3	6816228.4 2.5	17.5
Road truck	553656.6	6816227.4 2.5	17.5
Road truck	553663.8		17.5
Road truck	553670.9	6816225.5 2.5	17.5
Road truck	553677.8	6816224.5 2.5	17.6
Road truck	553684.7	6816223.6 2.5	17.6
Road truck	553691.5		17.6
Road truck	553698.2		17.6
Road truck	553704.8	6816220.9 2.5	17.6
Road truck	553711.3	6816220.1 2.5	17.6
Road truck	553717.8		
			17.6
Road truck	553724.1	6816218.4 2.5	17.6
Road truck	553730.5	6816217.5 2.5	17.7
Road truck	553736.7	6816216.7 2.5	17.7
Road truck			
	553743	6816215.8 2.5	17.7
Road truck	553749.1	6816215 2.5	17.7
Road truck	553755.3	6816214.2 2.5	17.7
Road truck	553761.4	6816213.4 2.5	17.7
Road truck			
	553767.4		17.7
Road truck	553773.5	6816211.8 2.5	17.7
Road truck	553779.4	6816211 2.5	17.7
Road truck	553785.4	6816210.2 2.5	17.7
Road truck	553791.4		
			17.8
Road truck	553797.3		17.8
Road truck	553800.4	6816208.2 2.5	3.1
Road truck	553803.3	6816205.7 2.5	18.7
Road truck	553808.7	6816200.8 2.5	18.8
Road truck	553814	6816196.1 2.5	18.8
Road truck	553819.2	6816191.5 2.5	18.8
Road truck	553824.2	6816187 2.5	18.8
Road truck	553829.2	6816182.6 2.5	18.8
Road truck	553834	6816178.3 2.5	18.9
Road truck	553838.8	6816174 2.5	18.9
Road truck	553843.4	6816169.9 2.5	18.9
Road truck	553847.4	6816166.3 2.5	17.7
HAUL TRUCK	553361.3	6815910.8 2.5	17.3
HAUL TRUCK	553291.7	6815910.5 2.5	16.4
HAUL TRUCK			
	553475.4	6816194.3 2.5	15.8
HAUL TRUCK	553462.6	6816196.7 2.5	15.8
HAUL TRUCK	553449.1	6816199.3 2.5	15.7
HAUL TRUCK	553435	6816201.9 2.5	15.7
HAUL TRUCK	553420.1	6816204.7 2.5	15.6
HAUL TRUCK			
	553404.4		15.6
HAUL TRUCK	553387.8	6816210.8 2.5	15.6
HAUL TRUCK	553370.2	6816214.1 2.5	15.5
HAUL TRUCK	553351.5	6816217.6 2.5	11
HAUL TRUCK	553331.6	6816221.3 2.5	10.9
HAUL:TRUCK	553310.4	6816225.3 2.5	10.8
HAUL TRUCK	553287.7	6816229.5 2.5	10.8
HAUL TRUCK	553263.6	6816234.1 2.5	9
HAUL TRUCK	553471.1	6816179.4 2.5	14.3
HAUL TRUCK	553468.7	6816171.1 2.5	14.3
HAUL TRUCK	553466.2	6816163 2.5	14.4
HAUL TRUCK	553463.9	6816155.1 2.5	14.4
HAUL TRUCK	553461.5	6816147.3 2.5	14.4
HAUL TRUCK	553459.2	6816139.6 2.5	14.4
HAUL TRUCK	553456.9		
			9.2
HAUL TRUCK	553454.7	6816124.6 2.5	9.2
HAUL TRUCK	553452.5	6816117.3 2.5	9.2
HAUL TRUCK	553450.3	6816110.1 2.5	9.3
HAUL TRUCK	553448.2	6816102.9 2.5	7.9
HAUL TRUCK			
	553446.1	6816095.9 2.5	6.6
HAUL TRUCK	553444	6816088.9 2.5	7.2
HAUL TRUCK	553441.9	6816082 2.5	7.6
HAUL TRUCK	553439.9	6816075.2 2.5	8
HAUL TRUCK	553437.8	6816068,4 2.5	8.4
HAUL TRUCK	553435.8	6816061.7 2.5	8.7
HAUL TRUCK	553433.8	6816055 2.5	8.9
HAUL TRUCK	553431.9	6816048.4 2.5	9.1
HAUL TRUCK	553429.9	6816041.9 2.5	9.2



HAUL HAUL HAUL HAUL HAUL HAUL HAUL HAUL	TRUCK	553395.5 553393.5	6816009.7 6816003.3 6815997 6815990.6 6815984.3 6815971.7 6815965.3 6815952.7 6815946.3 6815930.6 6815933.6 6815927.1 6815920.7 6815914.2	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9.2 9.2 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1
Receptor	X Posn	Y Posn (m)	Height (m)	Ground		Noise Level (dB(A))
R2A	(m) 553848.7	6815742.3		(m) 3.5		36.3
Source	X Posn	Y Posn	Height	3.3	Noise Leve	
Source	(m)	(m)	(m)		(dB(A))	
EXCAV		553362.8	6815905.2	2.5		26.9
Generate	or	553406.4				19.9
EXCAV		553250.3	6815909.1			31.7
LOADE		553326.9				22.9
LOADE		553275.4				22.1
LOADE			6816260.9			14.8
Road tru		553380.6 553361.3	6816257.7 6816260.4			8.9
Road tru Road tru		553341.2				9.5
Road tru		553320.2	6816266.2			9.9
Road tru		553298.8	6816269.3			9.7
Road tru		553289,2	6816260.5			9.6
Road tru	ıck	553290.9	6816246.6	2.5		5.4
Road tru	ick	553300.8	6816243	2.5		9.5
Road tru		553319.3	6816243.4			9.5
Road tru		553337.1	6816243.7			9.5
Road tru		553354.3	6816244.1			9.1
Road tru		553365	6816244.3			3.4
Road tru Road tru		553376.1 553393.1	6816244 6816243.2	2.5		8.7 7.7
Road tru		553409.4	6816242.5			10
Road tru		553425.3	6816241.8			14.9
Road tru		553440.6	6816241.1			14.9
Road tru	ick	553455.5	6816240.4	2.5		14.9
Road tru	ıck	553469.9				15
Road tru		553483.9	6816239.1			15
Road tru		553497.5	6816238.5			6.9
Road tru		553510.7	6816237.9			6.9
Road tru Road tru		553519.8 553530.8	6816237.5 6816244.2			2.9 7.1
Road tru		553544.1	6816242.4			7.5
Road tru		553556.9	6816240.7			7.5
Road tru	ick	553569.4	6816239	2.5		7.6
Road tru	ick	553581.6	6816237.4	2.5		7.5
Road tru		553593.5	6816235.8			15.5
Road tru		553605	6816234.3			11.1
Road tru		553616.4	6816232.8			11 11
Road tru Road tru		553627.4 553638.3	6816231.3 6816229.8			15.6
Road tru		553648.9	6816228.4			15.6
Road tru		553659.3	6816227	2.5		15.6
Road tru		553669.4	6816225.7			15.6
Road tru		553679.5	6816224.3			15.7
Road tru		553689,3	6816223	2.5		15.7
Road tru			6816221.7			15.7
Road tru	ick	553708.5	6816220.5	2.5		15.7



Road	truck	553717 8	6816219	225		15.7
Road		553727	6816218			15.8
Road		553736.1				15.8
Road		553745.1				15.8
Road		553754	6816214			15.8
Road			6816213			15.8
Road 1			6816212			15.9
	ruck					
		553780	6816210.			15.9
Road t			6816209.			15.9
Road t			6816208.			15.6
Road t		553805				17.5
Road t			6816196.			17.6
Road t			6816188.			17.6
Road t			6816181.			17.7
Road t			6816174.			17.7
Road t			6816168			17.6
	TRUCK		6815910.			11.1
	TRUCK		6815910.	8 2.5		11.1
	TRUCK	553323	6815910.	6 2.5		11,1
HAUL	TRUCK	553290.1	6815910.	5 2.5		11.1
HAUL	TRUCK	553262.3	6815910.	4 2.5		8.4
HAUL	TRUCK	553473.8	6816194.	6 2.5		13.8
HAUL	TRUCK	553457.7	6816197.	7 2.5		9.3
HAUL	TRUCK		6816200.			9.3
HAUL	TRUCK	553423.3	6816204.	1 2.5		7.8
	TRUCK		6816207.			8.4
	TRUCK		6816211.			8.9
0.000	TRUCK	553365.1				9.6
	TRUCK	553343.7				9.6
		553321	6816223.			9.5
	TRUCK	553297				9.5
	TRUCK		6816232.			9.5
HALII	TRUCK	553254.6	6816235.			3.8
	TRUCK	553470.7	6816177.3			8.2
	TRUCK		6816166.:			7
	TRUCK	553464	6816155.:			6.9
	TRUCK		6816144.6			7.5
	TRUCK		6816134			8
	TRUCK		6816123.0			8.2
	TRUCK		6816113.4			8.2
	TRUCK		6816103.3			8.2
	TRUCK		6816093.4			8.2
	TRUCK		6816083.7			8.3
	TRUCK		6816074.1	2.5		8.3
	TRUCK	553436.7	6816064:6	5 2.5		8.3
HAUL	TRUCK	553433.9	6816055.3	3 2.5		8.3
HAUL	TRUCK	553431.2	6816046.1	2.5		8.4
HAUL	TRUCK	553428.4	6816037	2.5		8.3
HAUL	TRUCK	553425.7	6816028	2.5		8.3
HAUL	TRUCK	553423.1	6816019.1			8.2
HAUL	TRUCK	553420.4	6816010.3	3 2.5		8.1
HAUL	TRUCK	553417.8	6816001:6	5 2.5		8.1
HAUL	TRUCK	553415.2	6815993	2.5		8.1
	TRUCK		6815984.4			8.2
	TRUCK	553410.1	6815975.9			8.3
	TRUCK	553407.6				8.3
	TRUCK	553405.1	6815959.1			8.3
	TRUCK	553402.5				8.1
	TRUCK	553400.1	6815942.4			7.9
	TRUCK	553397.6				8.2
	TRUCK	553395.1	6815925.9			7.7
	TRUCK		6815917.7			7
	TRUCK		6815909.5			6.5
	TRUCK	553388.9	6815905.2			-5.6
Receptor	X Posn	Y Posn	Haight	Ground		Noise Level
Receptor			Height	Ground		Noise Level
R2B	(m) 554002.8	(m)	(m)	(m)		(dB(A))
		6815828.9		4	Moins I	35.6
Source	X Posn	Y Posn	Height		Noise Lev	Ć1
EVOAT	(m)	(m)	(m)	2.5	(dB(A))	24.6
EXCAV		553362.8	6815905.2			24.6
Generat		553406.4	6816251.5			18.8
EXCAV	AIUK	553250.3	6815909.1	2.3		23.2



LOADED	553336.0	(01(102.0.2.5	25.2
LOADER	553326.8	6816183.8 2.5	25.3
LOADER	553284.8		22.1
LOADER	553260.9	6816245.4 2.5	22
LOADER	553246.1	6816263.9 2.5	14.1
Road truck	553375.3	6816258.4 2.5	16
Road truck	553344.6		15.9
	553311.5		15.7
Road truck			
Road truck	553291	6816270.4 2.5	8
Road truck	553289.1	6816261.6 2.5	12.8
Road truck	553290.8	6816247.6 2.5	10.2
Road truck	553305	6816243.1 2.5	14.8
Road truck	553331.1	6816243.6 2.5	14.8
Road truck	553355.6	6816244.1 2.5	14.9
Road truck	553380.2		15.4
Road truck	553404.8		15.5
Road truck	553428	6816241.6 2.5	15.6
Road truck	553450	6816240.6 2.5	15.7
Road truck	553470.9	6816239.7 2.5	15.7
Road truck	553490.8	6816238.8 2.5	15.8
Road truck	553509.7	6816237.9 2.5	15.8
Road truck	553520.6		8.7
Road truck	553533.9		16.3
Road truck	553552.9		16.5
Road truck		6816238.8 2.5	16.5
Road truck	553588	6816236.5 2.5	16.5
Road truck	553604.4	6816234.4 2.5	16.6
Road truck	553620.1	6816232,3 2.5	16.7
Road truck	553635.1	6816230.3 2.5	16.7
Road truck	553649.4	6816228.3 2.5	16.7
	553663.3		16.8
Road truck			
Road truck	553676.5		16.8
Road truck	553689.3	6816223 2.5	12.1
Road truck	553701.7	6816221.4 2.5	16.9
Road truck	553713.6	6816219.8 2.5	16.9
Road truck	553725.1	6816218.2 2.5	17
Road truck	553736.3	6816216.7 2.5	17
Road truck	553747.1	6816215.3 2.5	17
Road truck	553757.6	6816213.9 2.5	17.1
Road truck	553767.7	6816212.5 2.5	17.1
Road truck	553777.6	6816211.2 2.5	17.1
Road truck	553787.3	6816209.9 2.5	17.2
Road truck	553796.3	6816208.7 2.5	16.9
Road truck	553808.4	6816201.1 2.5	20.9
Road truck	553823.2		21
Road truck	553836.7	6816175.8 2.5	21.1
			18.2
Road truck	553846.2	6816167.5 2.5	
HAUL TRUCK	553349.9	6815910.7 2.5	13.1
HAUL TRUCK	553277.9	6815910.4 2.5	9.9
HAUL TRUCK	553468.1	6816195.7 2.5	15.2
HAUL TRUCK	553439.5	6816201.1 2.5	15.1
HAUL TRUCK	553408.3	6816206.9 2.5	15
HAUL TRUCK	553374.3		14.9
HAUL TRUCK	553337.1	6816220.3 2.5	14.9
			14.8
HAUL TRUCK	553296		
HAUL TRUCK	553262.6	6816234.3 2.5	11.7
HAUL TRUCK	553470.7	6816178 2.5	11.6
HAUL TRUCK	553467.4	6816166.9 2.5	11.6
HAUL TRUCK	553464.1	6816156 2.5	11.6
HAUL TRUCK	553460.9	6816145.2 2.5	11.6
HAUL TRUCK	553457.7	6816134.4 2.5	11.6
HAUL TRUCK	553454.5	6816123.7 2.5	11.6
		6816113.2 2.5	11.6
HAUL TRUCK	553451.3		
HAUL TRUCK	553448.1	6816102.6 2.5	11.6
HAUL TRUCK	553445	6816092.2 2.5	11.6
HAUL TRUCK	553441.9	6816081.8 2.5	11.7
HAUL TRUCK	553438.8	6816071.4 2.5	11.7
HAUL TRUCK	553435.7	6816061.1 2.5	11.7
HAUL TRUCK	553432.6	6816050.8 2.5	7.4
HAUL TRUCK	553429.5	6816040.6 2.5	7.4
HAUL TRUCK	553426.4	6816030.4 2.5	7.5
HAUL TRUCK	553423.4	6816020.2 2.5	5.6
HAUL TRUCK	553420.3	6816010 2.5	6.7
HAUL TRUCK	553417.3	6815999.8 2.5	7.3



HAUL'	TRUCK	553414.2	6815989.6	5 2.5		7.5
HAUL T		553411.1	6815979.4	1 2.5		7.4
HAUL	TRUCK	553408.1	6815969.1	2.5		7.4
HAUL		553405	6815958.9	2.5		7.4
HAUL	TRUCK	553401.9	6815948.6	5 2.5		7.2
HAUL		553398.8				7
HAUL		553395.7		2.5		6.7
HAUL		553392.6				4.8
HAUL		553389.9				3.3
HAUL	ROCK	333307.7	0013900.0	12.3		3.3
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
Receptor	(m)		-			
R3	'	(m) 6815756.9	(m)	(m)		(dB(A))
				3.6	N	38.9
Source	X Posn	Y Posn	Height		Noise Lev	el
FUGLI	(m)	(m)	(m)	0.0	(dB(A))	
EXCAV		553362.8				30.9
Generate		553406.4				21.4
EXCAV	ATOR	553250.3	6815909.1	2.5		35.8
LOADE	R	553346	6816172.7	2.5		20.4
LOADE	R	553327.3	6816183.6	2.5		20.4
LOADE	R	553307	6816195.3	2.5		20.4
LOADE	R	553296.1	6816201.6	2.5		-1.4
LOADE			6816231.8			24.7
Road tru		553384	6816257.2			9.9
Road tru		553372.1				
						9.9
Road tru			6816260.6			9.9
Road tru			6816262.4			9.9
Road tru			6816264.2			9.9
Road tru			6816266.1			9.9
Road tru	ck	553307.6	6816268	2.5		9.9
Road tru	ck	553294.4	6816269.9	2.5		9.4
Road tru	ck	553289.4	6816259.2	2.5		12
Road tru	ck	553291	6816245.4	2.5		5.9
Road tru	ck	553297.6	6816242.9			9.7
Road tru			6816243.2			9.7
Road tru			6816243.4			9.7
Road tru		5533333.5	6816243.7			9.7
Road tru						
		553345	6816243.9			9.7
Road tru		553356.3	6816244.1			9.7
Road tru		553364.6	6816244.3			6.7
Road tru		553373	6816244.1			9.8
Road true	ck	553384.2	6816243.6	2.5		9.8
Road true	ck	553395.1	6816243.1	2.5		9.8
Road true	ck	553405.7	6816242.6	2.5		9.8
Road true	ck	553416.2	6816242.2	2.5		9.7
Road true	ck	553426.5	6816241.7	2.5		9.7
Road true	ck	553436.7	6816241.2	2.5		10
Road true	ck	553446.7	6816240.8	2.5		10
Road true		553456.5	6816240.3			10
Road true		553466.2	6816239.9			10
Road true		553475.7	6816239.5			10
Road true		553485.1	6816239.1			10
Road true		553494.4	6816238.6			10
Road true		553503.6	6816238.2			10
Road true		553512.7	6816237.8			10
Road true		553519.7	6816237.5			7.6
Road true		553528.7	6816244.5			9.9
Road true		553537.8	6816243.2			9.8
Road true	ck	553546.8	6816242	2.5		10.2
Road true	ck	553555.7	6816240.9	2.5		10.2
Road true	ck	553564.6	6816239.7	2.5		10.3
Road true	ck		6816238.5			10.3
Road true	k		6816237.4	2.5		10.2
Road true			6816236.2			10.1
Road truc			6816235.1			10.1
Road truc			6816233.9			10.1
Road true			6816232.8			10.1
Road truc			6816231.7			10.2
Road truc			6816230.6			10.2
Road truc			6816229.5			10
Road truc			6816228.4			10,1
Road truc			6816227.3			10.2
Road truc	k	553665.3	6816226.2	2.5		10.3



	251906		11.
Road truck	553673.5	6816225.1 2.5	10.3
Road truck	553681.6	6816224 2.5	10.4
Road truck	553689.7	6816223 2.5	10.5
Road truck	553697.8	6816221.9 2.5	10.5
Road truck	553706	6816220.8 2.5	10.5
Road truck	553714.1	6816219.7 2.5	9.9
Road truck	553722.2	6816218.6 2.5	8.8
Road truck	553730.4	6816217.5 2.5	15.7
Road truck	553738.5	6816216.4 2.5	15.7
Road truck	553746.7		15.8
Road truck	553755	6816214.2 2.5	15.8
Road truck	553763.2	6816213.1 2.5	15.8
Road truck	553771.5	6816212 2.5	15.8
Road truck	553779.9	6816210.9 2.5	15.8
Road truck	553788.3	6816209.8 2.5	15.8
Road truck	553796.5	6816208.7 2.5	15.5
Road truck	553803.8	6816205.2 2.5	16
Road truck	553810.5	6816199.2 2.5	16
Road truck	553817	6816193.4 2.5	16
Road truck	553823.5	6816187.6 2.5	16
Road truck	553829.9	6816181.9 2.5	16.1
Road truck	553836.3	6816176.3 2.5	16.1
Road truck	553842.6		16.1
Road truck	553847.4	6816166.3 2.5	13.6
HAUL TRUCK	553387	6815910.9 2.5	11.1
HAUL TRUCK	553377.2	6815910.9 2.5	11.1
HAUL TRUCK	553366.7		11.2
HAUL TRUCK	553355.6	6815910.8 2.5	11.2
HAUL TRUCK	553343.8	6815910.7 2.5	11.2
HAUL TRUCK			11.3
	553331.2		
HAUL TRUCK	553317.7	6815910.6 2.5	11.3
HAUL TRUCK	553303.2	6815910.5 2.5	11.4
HAUL TRUCK	553287.6	6815910.5 2.5	11.4
HAUL TRUCK	553270.7	6815910.4 2.5	18.1
HAUL TRUCK	553257	6815910.3 2.5	15.2
HAUL TRUCK	553477	6816194 2.5	9
HAUL TRUCK	553467.7	6816195.8 2.5	9
HAUL TRUCK	553458.1	6816197.6.2.5	9
HAUL TRUCK	553448.4	6816199.4 2.5	8.7
HAUL TRUCK	553438.4	6816201.3 2.5	8.7
HAUL TRUCK	553428.1	6816203.2 2.5	8.7
HAUL TRUCK	553417.7	6816205.2 2.5	8.7
HAUL TRUCK	553406.9	6816207.2 2.5	8.8
HAUL TRUCK	553395.8	6816209.3 2.5	8.8
HAUL TRUCK	553384.5	6816211.4 2.5	8.8
HAUL TRUCK	553372.8	6816213.6 2.5	8.8
HAUL TRUCK	553360.7	6816215.9 2.5	9.2
HAUL TRUCK	553348.3	6816218.2 2.5	9.2
HAUL TRUCK	553335.4	6816220.6 2.5	9.2
HAUL TRUCK	553322.2	6816223.1 2.5	9.2
HAUL TRUCK	553308.4	6816225.7 2.5	9.2
HAUL TRUCK	553294.2	6816228.3 2.5	9.2
HAUL TRUCK	553279.5		9.2
HAUL TRUCK	553264.1	6816234 2.5	9.2
HAUL TRUCK	553253.6	6816235.9 2.5	4.4
HAUL TRUCK	553470.5	6816177.3 2.5	10.6
	553466.9		10.6
HAUL TRUCK		6816165.4 2.5	
HAUL TRUCK	553463.5	6816153.9 2.5	10.4
HAUL TRUCK	553460.2	6816142.9 2.5	10.4
HAUL TRUCK	553457	6816132.3 2.5	10.4
HAUL TRUCK	553454	6816122.1 2.5	10.5
HAUL TRUCK	553451	6816112.3 2.5	10.5
HAUL TRUCK	553448.2	6816102.9 2.5	10.6
			10.6
HAUL TRUCK	553445.5	6816093.8 2.5	
HAUL TRUCK	553442.8	6816084.9 2.5	10.6
HAUL TRUCK	553440.2	6816076.4 2.5	10.7
HAUL TRUCK	553437.8	6816068.1 2.5	10.7
HAUL TRUCK	553435.4	6816060.1 2.5	10.7
HAUL TRUCK	553433	6816052.3 2.5	10.7
HAUL TRUCK	553430.7	6816044.7 2.5	10.7
HAUL TRUCK	553428.5	6816037.3 2.5	10.7
HAUL TRUCK	553426.4	6816030.1 2.5	10.7
HAUL TRUCK	553424.3	6816023.1 2.5	10.7



HALL	TRUCK	553422.2	6816016.	3 2 5	10.9
	TRUCK		6816009.		10.8
	TRUCK	553418.2			10.8
	TRUCK		6815996.		10.8
	TRUCK	553414.5			10.8
	TRUCK		6815984.		10.8
	TRUCK	553410.8			11.8
	TRUCK	553409	6815972		11.8
	TRUCK	553407.3			11.7
HAUL	TRUCK	553405.6			11.7
HAUL	TRUCK	553403.9	6815955.2	2 2.5	11.6
HAUL	TRUCK	553402.2	6815949.	7 2.5	11.4
HAUL	TRUCK	553400.6	6815944.3	3 2.5	11.2
HAUL	TRUCK	553399	6815938.9	2.5	10.9
HAUL	TRUCK	553397.4	6815933.6	5 2.5	10.6
HAUL'	TRUCK	553395.8	6815928.4	1 2.5	10
HAUL'	TRUCK	553394.3	6815923.2	2.2.5	9.6
HAUL'	TRUCK	553392.8	6815918.1	2.5	9.1
HAUL'	TRUCK	553391.2	6815913	2.5	8.8
HAUL'	TRUCK	553389.7	6815908	2.5	8.3
	TRUCK	553388.9			-0.9
Receptor	X Posn	Y Posn	Height	Ground	Noise Level
•	(m)	(m)	(m)	(m)	(dB(A))
R4A	552797.6			16.9	32.9
Source	X Posn	Y Posn	Height		Noise Level
	(m)	(m)	(m)		(dB(A))
EXCAV	. /		6815905.2	2.5	23.3
Generat			6816251.5		15.8
EXCAV		553250.3		10.7	27.3
LOADE		553348	6816171.5		16.9
LOADE		553334.5			16.9
LOADE		553321	6816187.2		16.9
LOADE		553307.5		2.5	16.9
LOADE		553298.4			12,4
LOADE		553291	6816208	2.5	17.1
LOADE		553280.8			17.1
LOADE			6816233.6		17.1
LOADE			6816246.6		17.1
LOADE			6816259.8		17.1
Road tru		553380.2	6816257.7		10.7
Road tru		553361.1	6816260.4		10.7
Road tru			6816263.1		10.7
Road tru		553324	6816265.7		10.8
Road tru					10.8
Road tru		553305.9			7.9
Road tru		553292.5 553289.6			12.6
Road tru		553291.2	6816244	2.5	2.3
-				2714	
Road tru Road tru		553301 553320.8	6816243 6816243.4	2.5	11.4
Road tru		553341	6816243.8		11.4 11.3
Road tru		553359.3	6816244.2		10.2
Road tru		553377.5	6816243.9		11.1
Road tru		553398.2	6816243	2.5	11.1
Road tru		553419.4	6816242	2.5	11
Road tru		553441.1	6816241	2.5	10.9
Road tru		553463.4	6816240	2.5	10.9
Road tru		553486.3	6816239	2.5	10.9
Road tru		553509.9	6816237.9		10.9
Road tru		553522.1	6816237.4		-8.6
Road tru		553535.4	6816243.6		10.4
Road tru		5535558.6	6816240.5		10.4
Road tru					
Road tru		553582.4	6816237.3		10.3
Road true		553606.9	6816234	2.5	10.3
		553632	6816230.7		10.2
Road true		553657.9	6816227.2		10.2
Road true		553684.6	6816223.6		10.1
Road true		553712.1		2.5	10.1
Road true		553740.6	6816216.2		10
Road true		553770	6816212.2		10
Road true		553792.8	6816209.2		6.9
Road true		553808.8	6816200.8		8.4
Road true	UK	553825.5	6816185.9	2.3	8.4



Road tru	ıck	553841.5	6816171.6	5 2.5		7.9
HAUL	TRUCK	553381	6815910.9	2.5		6.5
HAUL		553360.2	6815910.8			12.1
HAUL		553340.3				12.2
HAUL		553321.2	6815910.6			12.2
HAUL 1		553303 553285.4	6815910.5 6815910.5			12.2 12.3
HAUL 1		553268.6				12.3
HAUL		553256.2				5.9
HAUL		553471.5				8.7
HAUL		553451.7				8.8
HAUL	TRUCK	553432.2	6816202.4	2.5		8.8
HAUL		553413.1	6816206			8.8
HAUL		553394.4				8.8
HAUL		553376.1				8.9
HAUL		553358.1				8.9
HAUL		553340.4	6816219.7 6816222.9			9
HAUL 1		553305.8				9
HAUL 7		553288.9				9
HAUL T		553272.2	6816232.4			9
HAUL		553257.5				8.1
HAUL 7		553467	6816165.6	2.5		11.5
HAUL 7	RUCK	553456.7	6816131.4	2.5		11.6
HAULT		553447.1				11.7
HAUL 7			6816069.3			11.8
HAUL 1		553429.6		2.5		11.8
HAULT			6816014.2			11.9
HAUL 1		553414 553406.8	6815988.9	2.5		11.9
HAUL 7		553400.8	6815942.2			12
HAUL 7		553393.5				7.4
HAULT			6815907.5			0.1
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
R4B	552865.6	6815421	1.8	18.9		34.3
0	W D				N1 15 1	
Source	X Posn	Y Posn	Height	1 2/7)	Noise Leve	
	(m)	Y Posn (m)	Height (m)		Noise Leve (dB(A))	el
EXCAV	(m) ATOR	Y Posn (m) 553362.8	Height (m) 6815905.2	2.5		23.3
EXCAV Generate	(m) ATOR or	Y Posn (m) 553362.8 553406.4	Height (m) 6815905.2 6816251.5	2.5		el
EXCAV	(m) ATOR or ATOR	Y Posn (m) 553362.8 553406.4	Height (m) 6815905.2 6816251.5 6815909.1	2.5		23.3 15.7
EXCAV Generate EXCAV	(m) ATOR or ATOR R	Y Posn (m) 553362.8 553406.4 553250.3 553348.1	Height (m) 6815905.2 6816251.5 6815909.1	2.5 1 2.5 2.5		23.3 15.7 31.1
EXCAV Generate EXCAV LOADE LOADE LOADE	(m) ATOR or ATOR R R	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553334.6 553321.2	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1	2.5 1 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8
EXCAV Generate EXCAV LOADE LOADE LOADE LOADE	(m) ATOR or ATOR R R R R	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553334.6 553321.2 553307.7	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816194.9	2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8
EXCAV Generate EXCAV LOADE LOADE LOADE LOADE LOADE	(m) ATOR or ATOR R R R R R R	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553334.6 553321.2 553307.7 553298.5	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816194.9 6816200.2	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 16.8
EXCAV Generate EXCAV LOADE LOADE LOADE LOADE LOADE LOADE	(m) ATOR or ATOR R R R R R R R	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553334.6 553321.2 553307.7 553298.5 553290.8	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816194.9 6816200.2 6816208.2	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 16.8 12.4
EXCAV Generate EXCAV LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE	(m) ATOR or ATOR R R R R R R R R R R R	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553334.6 553321.2 553307.7 553298.5 553290.8 553280.1	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816194.9 6816200.2 6816208.2	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 12.4 17.1
EXCAV Generate EXCAV LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE	(m) ATOR or ATOR R R R R R R R R R R R	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553334.6 553331.2 553307.7 553298.5 553290.8 553280.1 553269.2	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816187.2 681620.2 6816205.1 6816235.1	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 12.4 17.1 17.1
EXCAV Generate EXCAV LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE	(m) ATOR or ATOR R R R R R R R R R R R R R R R R R	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553321.2 553307.7 553298.5 553290.8 553280.1 553269.2 553269.2	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816194.9 6816200.2 6816208.2 6816235.1 6816248.8	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 12.4 17.1
EXCAV Generate EXCAV LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE	(m) ATOR or ATOR R R R R R R R R R R R R R R R R R R	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553321.2 553307.7 553298.5 553290.8 553280.1 553269.2 553269.2	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816194.9 6816200.2 6816205.1 6816248.8 6816261.1	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 12.4 17.1 17.1 17.1
EXCAV Generate EXCAV LOADE	(m) ATOR or ATOR R R R R R R R R R R R R	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553321.2 553307.7 553298.5 553290.8 553269.2 553269.2 553258.2 553248.3 553380.6	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816194.9 6816208.2 6816225.1 6816248.8 6816261.1 6816257.7 6816260.3	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 16.8 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17
EXCAV Generate EXCAV LOADE Road tru Road tru	(m) ATOR or ATOR R R R R R R R R R R c c c	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553321.2 553307.7 553298.5 553280.1 553269.2 553258.2 553248.3 553380.6 553362.2 553344.1	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816200.2 6816208.2 6816221.5 6816248.8 6816261.1 6816257.7 6816260.3 6816262.9	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 17.1 17.1 17.1 15.9 10.4 10.5
EXCAV Generate EXCAV LOADE Road tru Road tru Road tru	(m) ATOR or ATOR R R R R R R R R R R R C R C C C C C C	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553321.2 553307.7 553298.5 553290.8 553269.2 553248.3 553380.6 553362.2 553344.1 553326.2	Height (m) 6815905.2 6816251.5 6816251.5 6816171.4 6816179.3 6816187.1 681620.2 6816205.1 681624.8 6816261.1 681625.4 681626.3 681626.3 681626.3 681626.3 681626.3 681626.3 681626.4 681625.4	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17
EXCAV Generate EXCAV LOADE ROAD tru Road tru Road tru Road tru	(m) ATOR or ATOR R R R R R R R R R C C C C	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553321.2 553307.7 553298.5 553290.8 553269.2 553269.2 553362.2 553362.2 553362.2 553366.2 553366.2	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 681620.2 6816205.5 6816248.8 6816261.1 6816257.7 6816260.3 6816262.9 6816265.4 6816267.9	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 17.1 17.1 10.5 10.5
EXCAV Generate EXCAV LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE ROADE ROAD tru Road tru Road tru Road tru Road tru Road tru	(m) ATOR or ATOR R R R R R R R R R c c c c	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553321.2 553307.7 553298.5 553269.2 553269.2 553269.2 553380.6 553362.2 553308.6 553293.9	Height (m) 6815905.2 6816251.5 6816299.1 6816171.4 6816179.3 6816187.1 681629.2 6816208.2 6816235.1 6816248.8 6816261.1 6816257.7 6816260.3 6816262.9 6816265.4 6816267.9 6816270	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 17.1 17.1 10.5 10.5 10.5 8.9
EXCAV Generate EXCAV LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE Road tru	(m) ATOR or ATOR R R R R R R R R C C C C C	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553334.6 553390.8 553290.8 553269.2 553258.2 553248.3 553362.2 553362.2 553308.6 553293.9 553289.7	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 681620.2 6816205.1 6816248.8 6816261.1 6816257.7 6816260.9 6816265.4 6816267.9 6816270 6816256.6	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 16.8 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17
EXCAV Generate EXCAV LOADE Road tru	(m) ATOR or ATOR R R R R R R R R R C R C C C C C C C C	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553321.2 553307.7 553298.5 553269.2 553269.2 553269.2 553380.6 553362.2 553308.6 553293.9	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 681620.2 6816205.1 6816248.8 6816261.1 6816257.7 6816265.4 6816265.4 6816267.0 6816256.6 6816243	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 17.1 10.5 10.5 10.5 10.5 8.9 12.8 11.1
EXCAV Generate EXCAV LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE Road tru	(m) ATOR or ATOR R R R R R R R R C C C C C	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553334.6 553390.8 553290.8 553269.2 553269.2 553362.2 553362.2 553362.2 553366.5 553293.9 553289.7 553300.6	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 681620.2 6816205.1 6816248.8 6816261.1 6816257.7 6816260.3 6816262.9 6816265.4 6816267.9 6816257.0 6816257.0 6816257.0 6816257.0 6816257.0 6816257.0 6816257.0 6816257.0 6816257.0 6816256.6 6816243.4 6816243.4	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 16.8 17.1 17.1 17.1 17.1 17.1 17.1 17.1 17
EXCAV Generate EXCAV LOADE Road tru	(m) ATOR or ATOR R R R R R R R R R R C C C C C C C C C	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553321.2 553307.7 553298.5 553290.8 553269.2 553248.3 553362.2 553344.1 55336.2 553362.2 553380.6 55329.9 553289.7 553300.6 553319.3 553338.5 553357.7	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 681620.2 6816205.1 6816248.8 6816261.1 6816257.7 6816260.3 6816262.9 6816265.4 6816267.9 6816257.0 6816257.0 6816257.0 6816257.0 6816257.0 6816257.0 6816257.0 6816257.0 6816257.0 6816256.6 6816243.4 6816243.4	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 17.1 10.5 10.5 10.5 10.5 8.9 12.8 11.1
EXCAV Generate EXCAV LOADE Road tru	(m) ATOR or ATOR R R R R R R R R R ck ck ck	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553334.6 553321.2 553307.7 553298.5 553290.8 553280.1 553269.2 553248.3 553380.6 553362.2 553344.1 553326.2 553388.6 553393.9 553289.7 553300.6 553319.3 553357.7 553377	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816194.9 6816200.2 6816208.2 6816261.1 6816257.7 6816260.3 6816262.9 6816265.4 6816267.0 6816256.6 6816243.4 6816243.8 6816243.9	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 15.9 10.4 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5
EXCAV Generate EXCAV LOADE Road tru	(m) ATOR or ATOR R R R R R R R R R ck ck ck	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553321.2 553307.7 553298.5 553290.8 553269.2 553248.3 553380.6 553293.9 553289.7 553308.6 55325338.5 553377 553377 553396.6	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816208.2 6816221.5 6816235.1 6816243.4 6816243.4 6816243.4 6816243.4 6816243.9 6816243.4 6816243.9 6816243.4	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		23.3 15.7 31.1 16.8 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 17.1 17.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10
EXCAV Generate EXCAV LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE Road tru	(m) ATOR OF ATOR R R R R R R R R R C C C C	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553321.2 553307.7 553298.5 553290.8 553269.2 553269.2 553269.2 55338.6 553380.6 553362.2 553344.1 553362.2 55336.6 55337.7 55337.7 55337.7 553396.6 553416.6	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816208.2 6816221.5 6816245.4 6816260.3 6816260.3 6816262.9 6816265.4 6816260.3 6816243.4 6816242.1 6816243.4 6816242.1 68162	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	(dB(A))	23.3 15.7 31.1 16.8 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 17.1 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10
EXCAV Generate EXCAV LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE Road tru	(m) ATOR or ATOR R R R R R R R R R c c c c	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553321.2 553307.7 553298.5 553290.8 553269.2 553269.2 553269.2 553362.2 553362.2 553362.2 553365.5 553562.2 553365.6 553365.7 553377 553396.6 553416.6 553437	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816194.9 6816200.2 6816221.5 6816245.4 6816260.3 6816260.3 6816260.3 6816260.3 6816263.4 68162443.4 68162443.4 68162443.4 68	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	(dB(A))	23.3 15.7 31.1 16.8 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 17.1 17.5 9 10.4 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.7 10.8
EXCAV Generate EXCAV LOADE Road tru	(m) ATOR or ATOR R R R R R R R R R c c c c	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553334.6 553290.8 553290.8 553269.2 553269.2 553248.3 553362.2 553344.1 553362.2 553344.1 553377 553377 553377 553377 553377 553457.8	Height (m) 6815905.2 6816251.5 6815909.1 6816171.4 6816179.3 6816187.1 6816194.9 6816200.2 6816208.2 6816235.1 6816248.8 6816261.1 6816257.7 6816260.3 6816262.4 6816243.4 6816243.4 6816243.4 6816243.8 6816243.4 6816243.8 6816243.4 6816243.8 6816243.4 6816243.8 6816243.4 6816243.8 6816243.4 6816243.8 6816243.8 6816243.4 6816243.8 68162	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	(dB(A))	23.3 15.7 31.1 16.8 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 17.1 10.5 10.5 10.5 10.5 10.5 10.5 10.7 10.8 10.7 10.7
EXCAV Generate EXCAV LOADE Road tru	(m) ATOR or ATOR R R R R R R R R R R C C C C C C C C	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553334.6 553321.2 553307.7 553298.5 553290.8 553269.2 553258.2 553248.3 553362.2 553344.1 553326.2 55339.9 553289.7 553300.6 553319.3 553357.7 553377 553377 553377 553377 553479.1	Height (m) 6815905.2 6816251.5 6816251.5 6816171.4 6816179.3 6816187.1 6816194.9 6816200.2 6816208.2 6816221.5 6816248.8 6816261.1 6816257.7 6816260.3 6816262.4 6816243.4 6816243.4 6816243.8 6816243.4 6816243.8 6816243.4 6816243.8 6816243.4 6816243.9 6816243.8 6816243.8 6816243.8 6816243.8 6816243.8 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	(dB(A))	23.3 15.7 31.1 16.8 16.8 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 17.1 17.1 10.5 10.5 10.5 10.5 10.5 10.5 10.7 10.8 10.7 10.7
EXCAV Generate EXCAV LOADE Road tru	(m) ATOR or ATOR R R R R R R R R R R C C C C C C C C	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553334.6 553321.2 553307.7 553298.5 553290.8 553269.2 553248.3 553362.2 553344.1 553269.2 553344.1 55337 553377 553396.6 553416.6 553437 553457.8 553479.1 553501	Height (m) 6815905.2 6816251.5 6816251.5 6816171.4 6816179.3 6816187.1 681629.2 6816208.2 6816208.2 6816265.4 6816265.4 6816265.4 6816265.4 6816243.4 6816243.4 6816243.4 6816243.4 6816243.4 6816243.4 6816243.4 6816243.4 6816243.4 6816243.3 6816243.4 6816243.3 6816243.4 6816243.3 6816243.4 6816243.3 6816239.3 6816238.3 6816238.3	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	(dB(A))	23.3 15.7 31.1 16.8 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 17.1 17.1 10.5 10.5 10.5 10.5 10.5 10.5 10.7 10.7 10.7 10.7
EXCAV Generate EXCAV LOADE Road tru	(m) ATOR OF ATOR OF ATOR R R R R R R R R R C C C C	Y Posn (m) 553362.8 553406.4 553250.3 553348.1 553334.6 553321.2 553307.7 553298.5 553290.8 553269.2 553258.2 553248.3 553362.2 553344.1 553326.2 55339.9 553289.7 553300.6 553319.3 553357.7 553377 553377 553377 553377 553479.1	Height (m) 6815905.2 6816251.5 6816251.5 6816171.4 6816179.3 6816187.1 6816194.9 6816200.2 6816208.2 6816221.5 6816248.8 6816261.1 6816257.7 6816260.3 6816262.4 6816243.4 6816243.4 6816243.8 6816243.4 6816243.8 6816243.4 6816243.8 6816243.4 6816243.9 6816243.8 6816243.8 6816243.8 6816243.8 6816243.8 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9	2.5 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	(dB(A))	23.3 15.7 31.1 16.8 16.8 16.8 16.8 16.8 12.4 17.1 17.1 17.1 17.1 17.1 17.1 10.5 10.5 10.5 10.5 10.5 10.5 10.7 10.8 10.7 10.7



Road tr	uck	553578.8	6816237.	8 2.5		10.1
Road tr	uck		6816234.			10.1
Road tr	uck	553624.9	6816231.	6 2.5		10.1
Road tr	uck	553648.8	6816228.	4 2.5		10
Road tr	uck	553673.3	6816225.	1 2.5		9.9
Road tr	uck	553698.5	6816221.	8 2.5		9.9
Road tr	uck	553724.4	6816218	3 2.5		9.9
Road tr	uck	553751.1	6816214.3	8 2.5		9.8
Road tr	uck	553778.6	6816211.			9.8
Road tr	uck		6816208.			4.2
Road tr			6816201			8.5
Road tr		553824.7				8.5
Road tr		553841	6816172.			8.5
	TRUCK	553382.6				5.9
	TRUCK		6815910.8			5.9
	TRUCK	553347.6				11.7
	TRUCK	553331				11.7
	TRUCK		6815910.0			11.7
	TRUCK		6815910.5			11.7
	TRUCK		6815910.5			11.8
	TRUCK		6815910.4			11.8
	TRUCK		6815910.3			10.5
	TRUCK		6816195			8.5
	TRUCK		6816198.5			8.5
	TRUCK		6816202			8.6
	TRUCK		6816205.4			8.6
	TRUCK	553398.6				8.6
	TRUCK		6816212.1			8.6
	TRUCK	553363.5				8.7
	TRUCK		6816218.5			8.7
	TRUCK		6816221.7			8.7
	TRUCK		6816224.9			8.7
	TRUCK					
	TRUCK	553296.1	6816231			8.7 8.8
	TRUCK					
	TRUCK		6816234.1			8.8
		553253.3				3.4
HAUL		553466	6816162.1			12.3
HAUL		553453.9				12.4
HAUL		553442.7				12.5
	TRUCK	553432.4				12.6
HAUL		553422.8				12.7
HAUL		553413.9				12.7
	TRUCK	553405.6				12.8
	TRUCK	553397.7				12.8
HAUL	TRUCK	553391.4	6815913.5	2.5		6.1
Dagantan	X Posn	V Dans	TT almalas	C		Main I and
Receptor		Y Posn	Height	Ground		Noise Level
DCA	(m)		(m)	(m)		(dB(A))
R5A	552762.8	6815886.6		24.1		37.6
Source	X Posn	Y Posn	Height		Noise Lev	el
EVCAN	(m)	(m)	(m)	2.5	(dB(A))	21.2
EXCAV		553362.8	6815905.2			31.3
Generato		553406.4	6816251.5			19.1
EXCAV			6815909.1			33.3
LOADE			6816171	2.5		18.9
LOADE		553337.2	6816177.8			18.9
LOADE		553325.7	6816184.4			18.9
LOADE		553314.5	6816191	2.5		18.9
LOADE		553303.5	6816197.3			18.9
LOADE		553297.1	6816201.1			11.8
LOADE			6816205.9			18.4
LOADE		553285.8	6816214.4			18.4
LOADE			6816222.8			18.4
LOADE			6816231.2			18.4
LOADE			6816239.6			18.4
LOADE			6816248	2.5		18.4
LOADE			6816256.3			18.4
LOADE			6816263.5			17
Road tru			6816257.8			14.1
Road tru			6816260.5			14.1
Road tru			6816263.1			14.2
Road tru			6816265.7			14.2
Road tru	CK	553307.1	6816268.1	2.3		14.3



Road tr	nick	553203.4	6816270	2.5		12.5
Road to			6816264.			13.4
Road tr			6816251.			13.4
Road tr			6816244.			6.7
Road tr			6816243			15.5
Road tr	uck	553323.5	6816243.	5 2.5		15.5
Road tr	uck	553346.4	6816243.	9 2.5		15.4
Road tr	uck	553362.9	6816244.	3 2.5		11
Road tr			6816243.			14.8
Road tr		553402.4				14.8
Road tr			6816241.			14.7
Road tr			6816240.			14.6
Road tr		553482.1				14.5
Road tr	uck		6816238			13.6
Road tr	uck	553537.7	6816243	3 2.5		13.6
Road tr	uck	553566.1	6816239	5 2.5		13.6
Road tr	uck	553596.1	6816235.	5 2.5		13.5
Road tr	uck		6816231.:			13.4
Road tr		553662	6816226.			13.3
Road tr			6816221.			13.2
Road tr		553737	6816216.			13.1
Road tr			6816211.			13
Road tr	uck	553808.8	6816200.3	8 2.5		9.9
Road tr	uck	553825.7	6816185.	7 2.5		9.8
Road tr	uck	553841.7	6816171.3	5 2.5		9.1
	TRUCK		6815910.0			22.5
	TRUCK		6816195.4			11.9
	TRUCK		6816199.			
						11.9
	TRUCK		6816203.8			12
	TRUCK	553404.1				12
HAUL	TRUCK	553384.2	6816211.4	4 2.5		12
HAUL	TRUCK	553365.2	6816215	2.5		12.1
HAUL	TRUCK	553347	6816218.4	1 2.5		12.2
	TRUCK		6816221.	7 2.5		12.2
	TRUCK	553312.7				12.2
						12.3
	TRUCK	553296.5				
	TRUCK	553280.9				12.3
	TRUCK	553265.9				12.3
HAUL	TRUCK	553254.7	6816235.	7 2.5		9.6
HAUL	TRUCK	553469.9	6816175.3	3 2.5		10.5
HAUL	TRUCK	553465.1	6816159.1	1 2.5		10.6
	TRUCK	553460.3		3 2 5		10.6
	TRUCK		6816128			10.6
	TRUCK		6816113.			10.6
	TRUCK		6816098.5			10.7
	TRUCK	553442.6				10.7
	TRUCK		6816070.3			10.7
HAUL	TRUCK	553434.3	6816056.6	5 2.5		10.7
HAUL'	TRUCK	553430.3	6816043.3	3 2.5		10.7
HAUL	TRUCK	553426.4	6816030.2	2.2.5		10.7
	TRUCK	553422.5	6816017.3			10.8
	TRUCK	553418.7	6816004.7			10.8
	TRUCK	553415	6815992.3			10.8
	TRUCK	553411.4	6815980.2			10.8
	TRUCK	553407.8	6815968.2			10.8
	TRUCK	553404.2	6815956.4	2.5		10.8
HAUL	TRUCK	553400.8	6815944.7	2.5		10.8
HAUL '	TRUCK	553397.3	6815933.3	3 2.5		10.8
	TRUCK	553393.9	6815922	2.5		10.8
	TRUCK	553390.6	6815910.8			10.8
	TRUCK	553388.9	6815905.1			-3.8
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
receptor			-			
DCD	(m)	(m)	(m)	(m)		(dB(A))
R5B	552747.8	6815977.7		26.9		37.5
Source	X Posn	Y Posn	Height		Noise Lev	el
	(m)	(m)	(m)		(dB(A))	
EXCAV	ATOR	553362.8	6815905.2	2.5		30.9
Generat		553406.4	6816251.5			19.3
						32.9
	/ATOR	553250.3	001 14114 1			
EXCAV		553250.3 553348.4	6815909.1			
EXCAV LOADE	ER	553348.4	6816171.3	2.5		19.5
EXCAV	ER ER			3 2.5 5 2.5		



LOADER	5533117	6816192.6 2.5	19.5
LOADER	553300.9		18.8
LOADER	553292.7		18.7
LOADER	553286	6816214.2 2.5	18.7
LOADER	553279.4	6816222.4 2.5	18.7
LOADER	553272.8	6816230.6 2.5	18.7
LOADER	553266.3		
			18.7
LOADER	553259.8		18.7
LOADER	553253.4	6816254.7 2.5	18.7
LOADER	553247.1	6816262.6 2.5	18.6
Road truck	553378.5	6816258 2.5	15
Road truck	553356.6		15.1
Road truck	553335.9		15.2
Road truck	553316.2		15.2
Road truck	553297.4	6816269.5 2.5	15.3
Road truck	553288.2	6816270.8 2.5	-1.2
Road truck	553288.7		13.4
Road truck	553290	6816253.8 2.5	13.4
Road truck	553291	6816245.5 2.5	10.3
Road truck	553304.2	6816243.1 2.5	16.9
Road truck	553331.3	6816243.6 2.5	16.8
Road truck	553356.4		15.3
Road truck	553381.1		
			16
Road truck	553410.2		15.9
Road truck	553441.5	6816241 2.5	15.8
Road truck	553475.5	6816239.5 2.5	15.7
Road truck	553507.7	6816238 2.5	14.4
Road truck	553540.2		14.5
Road truck			
	553574.3	6816238.4 2.5	14.5
Road truck	553611	6816233.5 2.5	14.4
Road truck	553650.6	6816228.2 2.5	14.2
Road truck	553693.7	6816222.4 2.5	14.1
Road truck	553740.6		14
Road truck	553782.8		12.1
Road truck	553809.2	6816200.4 2.5	10.1
Road truck	553827	6816184.5 2.5	10.1
Road truck	553842.6	6816170.6 2.5	8.5
HAUL TRUCK	553343.1	6815910.7 2.5	19.9
HAUL TRUCK	553275.5		18.5
HAUL TRUCK	553467.4	6816195.8 2.5	12.8
HAUL TRUCK	553440.4		12.9
HAUL TRUCK	553415	6816205.7 2.5	12.9
HAUL TRUCK	553391.2	6816210.1 2.5	13
HAUL TRUCK	553368.7		13
HAUL TRUCK	553347.5		13.1
HAUL TRUCK	553327.4		13.2
HAUL TRUCK	553308.3	6816225.7 2.5	13.2
HAUL TRUCK	553290.2	6816229.1 2.5	13.2
HAUL TRUCK	553273	6816232.3 2.5	13.3
HAUL TRUCK	553257.7	6816235.2 2.5	12.6
HAUL TRUCK	553470.2	6816176.1 2.5	10.2
HAUL TRUCK	553465.8	6816161.5 2.5	10.2
HAUL TRUCK	553461.5	6816147.2 2.5	10.3
HAUL TRUCK	553457.3	6816133.2 2.5	10.3
HAUL TRUCK	553453.1	6816119.4 2.5	10.3
HAUL TRUCK	553449.1	6816105.9 2.5	10.3
HAUL TRUCK	553445.1	6816092.6 2.5	10.3
HAUL TRUCK	553441.2	6816079.6 2.5	10.3
HAUL TRUCK	553437.4	6816066.8 2.5	10.3
HAUL TRUCK	553433.6	6816054.1 2.5	10.4
HAUL TRUCK	553429.8	6816041.7 2.5	10.4
HAUL TRUCK	553426.2	6816029.4 2.5	10.4
HAUL TRUCK	553422.5	6816017.3 2.5	10.4
HAUL TRUCK	553418.9	6816005.4 2.5	10.4
HAUL TRUCK	553415.4	6815993.5 2.5	10.4
HAUL TRUCK	553411.9	6815981.9 2.5	10.4
HAUL TRUCK	553408.4	6815970.3 2.5	10.4
HAUL TRUCK	553405	6815958.9 2.5	
			10.4
HAUL TRUCK	553401.6	6815947.6 2.5	10.4
HAUL TRUCK	553398.2	6815936.3 2.5	10.4
HAUL TRUCK	553394.9	6815925.2 2.5	10.4
HAUL TRUCK	553391.6	6815914.1 2.5	10.4
HAUL TRUCK	553389.4	6815906.8 2.5	5.8
	000000	-3.07 VOIG 210	5.0



Receptor	X Posn	Y Posn	Height	Ground		Noise Level
R6A	(m) 552849.5	(m) 6816597	(m) 1.8	(m) 7.6		(dB(A)) 36.4
Source	X Posn	Y Posn	Height	7.0	Noise Lev	
Gource	(m)	(m)	(m)		(dB(A))	0.1
EXCAV		553362.8		2.5	(())	28.1
Generat	or	553406.4	6816251.5	1		19.7
EXCAV		553250.3	6815909.1	2.5		29
LOADE		553327.9				26.2
LOADE		553299.7				18.3
LOADE			6816224.6			26.9
LOADE			6816256.2			24.5
Road tru Road tru		553351.6	6816258.2 6816261.8			17.4 17.5
Road tru			6816265.1			17.5
Road tre			6816268.2			17.6
Road tru		553292.2				13.9
Road tru			6816264.2			15.9
Road tru		553290.4				15.9
Road tru	ick	553291.3				4.4
Road tru	ick	553299.1	6816243	2.5		16.2
Road tru	ıck	553315.2				16.1
Road tru		553332	6816243.6			16.1
Road tru		553349.6	6816244			16
Road tru		553363	6816244.3			12.7
Road tru		553378	6816243.9			16.4
Road tru		553400	6816242.9			16.3
Road tru		553423.4	6816241.8			7.9
Road tru		553448.3				16.1
Road tru			6816239.5			16.1
Road tru Road tru		553520.3	6816238.2 6816237.5			6.9
Road tru			6816242.4			16.8
Road tru		553586.5				16.7
Road tru			6816230.4			16.6
Road tru		553686.7				16.3
Road tru		553746.3	6816215.4			16.2
Road tru			6816209.6			11.1
Road tru	ck	553821.1	6816189.8	2.5		14.8
Road tru	ck	553845.9	6816167.7	2.5		6.3
HAUL T	RUCK	553382.1	6815910.9			10.1
HAUL 7		553363.2				10.2
HAUL		553344.8	6815910.7			10.2
HAULT		553326.9	6815910.6			10.2
HAUL 7		553309.4	6815910.6			10.3
HAULT		553292.3	6815910.5 6815910.4			10.3
HAULT		553275.5	6815910.4			10.3 10
HAUL T		553259.7 553464.8	6816196.3			14.4
HAULT		553433.1	6816202.3			14.5
HAULT		553403.9	6816207.7			14.6
HAUL T		553376.9	6816212.8			14.7
HAUL 1		553351.8	6816217.5			14.8
HAUL 1	RUCK	553328.3	6816221.9			14.9
HAUL 7	RUCK	553306.4	6816226	2.5		15
HAUL T	RUCK	553285.9	6816229.9	2.5		15
HAUL T		553266.6	6816233.5			15.1
HAULT		553254.1	6816235.8			10.7
HAUL T		553470.4	6816177			10.4
HAUL 1		553466.5	6816163.8			10.4
HAULT		553462.5	6816150.4			10.4
HAUL T HAUL T		553458.4	6816136.9 6816123.2			10.3
HAULT		553454.3 553450.1	6816109.3			10.3
HAULT			6816095.2			10.3
HAULT			6816080.9			10.3
HAULT			6816066.4			10.3
HAULT		553432.8				10.2
HAULT		553428.3	6816036.6			10.2
HAUL T		553423.7				10.2
HAUL T		553419	6816005.7			10.2
HAUL T		553414.3	6815989.8	2.5		10.2
HAUL T	RUCK	553409.4	6815973.5	2.5		10.1



******	Dilon					5200
HAUL T		553404.4				10.1
HAUL T HAUL T		553399.3 553394.1	6815940 6815922.6			10 10
HAUL T		553390.1	6815909.3			7
TINULI	KOCK	333390.1	0013707.3	4.3		
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
R6B	552715.7	6816554.2	1.8	10.6		35.2
Source	X Posn	Y Posn	Height		Noise Leve	1
	(m)	(m)	(m)		(dB(A))	
EXCAVA		553362.8	6815905.2			27.3
Generator		553406.4	6816251.5			18.3
EXCAVA		553250.3	6815909.1			28.3
LOADER		553324.1	6816185.4			25.5
LOADER		553285.4	6816214.9			23.1
LOADER		553265.6	6816239.6			23.1
LOADER Road true		553250 553367.1	6816258.9 6816259.6			21.6 18.1
Road true			6816265.5			18.2
Road true		553297.1	6816269.5			15.4
Road true		553288.8	6816264.2			14.1
Road true		553290.4	6816250.6			14.1
Road truc		553291.3	6816243.3			2.4
Road truc		553303.1		2.5		16.2
Road true		553327.7	6816243.5			16.1
Road true	k		6816244.1			16
Road true	k	553383.9	6816243.6	2.5		16.6
Road truc	k	553419.2	6816242	2.5		16.4
Road truc	k	553457.8	6816240.3	2.5		16.3
Road truc	k	553499.8	6816238.4	2.5		16.1
Road truc			6816240.6	2.5		17.4
Road truc			6816230.4			17.2
Road truc			6816218.5			16.9
Road true			6816209.9			10.5
Road truc			6816191.6			13
Road truc			6816169.6			7.3
HAUL TE			6815910.9 6815910.8			10.2
HAUL TE			6815910.7			10.2 10.2
HAUL TE			6815910.6			10.3
HAUL TE			6815910.5			10.3
HAUL TR			6815910.4			10.3
HAUL TR			6815910.3			3.3
HAUL TR	RUCK		6816198.4	2.5		15.2
HAUL TR	RUCK	553403.1	6816207.9	2.5]	15.4
HAUL TR		553358.3	6816216.3	2.5	1	15.6
HAUL TR			6816223,8	2.5		15.7
HAUL TR			6816230.6			15.8
HAUL TR			6816235.1			12.5
HAUL TR			6816176.4			9.4
HAUL TR				2.5		9.3
HAUL TR			6816147.6 : 6816133 :	2.5).3).3
HAUL TR			6816118.3			9.3
HAUL TR	1.1 11:		6816103.5			0.3
HAUL TR			6816088.5			9.3
HAUL TR			6816073.4			0.3
HAUL TR			6816058.2			0.3
HAUL TR	UCK	553430.2	6816042.7	2.5	9	0.3
HAUL TR	UCK	553425.5	6816027.1	2.5	9	0.3
HAUL TR			6816011.3			0.2
HAUL TR			6815995.3			0.2
HAUL TR				2.5		0.2
HAUL TR			6815962.5			0.2
HAUL TR			6815945.8)_1
HAUL TR HAUL TR			6815928.7 2 6815912.5 2).1 3.5
Road truck			5815912.5 5816265.5			8.2
Road truck			5816269.5			5.4
Road truck			6816264.2			4.1
Road truck			5816250.6			4.1
Road truck			5816243.3			2.4
Road truck		553303.1	5816243	2.5		6.2



Road truck	553327.7	6816243.5 2.5	16.1
Road truck	553353.8	6816244.1 2.5	16
Road truck	553383.9	6816243.6 2.5	16.6
Road truck	553419.2	6816242 2.5	16.4
Road truck	553457.8	6816240.3 2.5	16.3
Road truck	553499.8	6816238.4 2.5	16.1
Road truck	553557.8	6816240.6 2.5	17.4
Road truck	553633.7	6816230.4 2.5	17.2
Road truck	553723.4	6816218.5 2.5	16.9
Road truck	553787.5	6816209.9 2.5	10.5
Road truck	553819.1	6816191.6 2.5	13
Road truck	553843.8	6816169.6 2.5	7.3
HAUL TRUCK	553519.9	6815909.2 2.5	9.9
HAUL TRUCK	553491.5	6815909.4 2.5	10
HAUL TRUCK	553464.3		10
HAUL TRUCK	553438.2	6815909.7 2.5	10.1
HAUL TRUCK	553413.2	6815909.9 2.5	10.1
HAUL TRUCK	553389	6815910.1 2.5	10.2
HAUL TRUCK	553365.8		10.2
HAUL TRUCK	553343.3	6815910.4 2.5	10.3
HAUL TRUCK	553321.6	6815910.5 2.5	10.3
HAUL TRUCK	553300.6	6815910.7 2.5	10.3
HAUL TRUCK	553285.9	6815910.8 2.5	6.9
HAUL TRUCK	553453.8	6816198.4 2.5	15.2
HAUL TRUCK	553403.1	6816207.9 2.5	15.4
HAUL TRUCK	553358.3	6816216.3 2.5	15.6
HAUL TRUCK	553318.2	6816223.8 2.5	15.7
HAUL TRUCK	553282.2	6816230.6 2.5	15.8
HAUL TRUCK	553258.2	6816235.1 2.5	12.5
HAUL TRUCK	553470.2	6816176.4 2.5	9.4
HAUL TRUCK	553465.9	6816162 2.5	9.3
HAUL TRUCK	553461.6		9.3
HAUL TRUCK	553457.2	6816133 2.5	9.3
HAUL TRUCK	553452.8	6816118.3 2.5	9.3
HAUL TRUCK	553448.4	6816103.5 2.5	9.3
HAUL TRUCK	553443.9	6816088.5 2.5	9.3
HAUL TRUCK	553439.4	6816073.4 2.5	9.3
HAUL TRUCK	553434.8	6816058.2 2.5	9.3
HAUL TRUCK	553430.2	6816042.7 2.5	9.3
HAUL TRUCK	553425.5	6816027.1 2.5	9.3
HAUL TRUCK	553420.7	6816011.3 2.5	9.2
HAUL TRUCK	553415.9	6815995.3 2.5	9.2
HAUL TRUCK	553411	6815979 2.5	9.2
HAUL TRUCK	553406.1	6815962.5 2.5	9.2
HAUL TRUCK	553400.1	6815945.8 2.5	9.2
	553396	6815928.7 2.5	9.1
HAUL TRUCK HAUL TRUCK	553390	6815912.5 2.5	8.5
EXCAVATOR	553286.9	6815896.8 2.5	27.9
EACAVATOR	333200.9	0013070.0 2.3	41.9

SOUTHEAST CORNER

File:Z:\CRG ACOUSTICS\ACOUSTIC JOBS\10453a Sandmine Lennox Hcad\10453a_sandmine april 2012 s.PEN File Description:Data file covering souteast

Tuesday 05 Mar, 2013 at 11:54:28 Environmental Calculations

All point and line sources included. Line source segmentation angle: 1 degrees. Calculations for specified meteorology.

Noise level results are the logarithmic addition of all the noise sources

Noise level results incorporate the incoherent ground reflection algorithm

Meteorology:

Wind speed 0.0 (m/s) Wind direction 0 Mast height 10.0 (m)
Temperature 20.0 (C) Temperature Gradient 0.0 (C/100m) Humidity 50.0 (%)

Surface Roughness of terrain 0.023000000 (m) Zero plane offset 0.080000000 (m)

Receptor	X Posn	Y Posn	Height	Ground	Noise Leve
•	(m)	(m)	(m)	(m)	(dB(A))
R1	553772.1	6815867.2	1.8	3	38.9
Source	X Posn	Y Posn	Height		Noise Level
	(m)	(m)	(m)		(dB(A))
EXCAVATOR		553643.9	6815944.2 2.5		30
Generate	or	553406.4	6816251.5	1	22.1
EXCAV	ATOR	553634.2	6815963.6	2.5	29.2
LOADE	R	553327.3	6816183.5	2.5	23
LOADE	R	553284.2	6816216.4	2.5	20.1
LOADE	R	553258.3	6816248.7	2.5	21.3
Road tru	ick	553382	6816257.5	2.5	16.9



Road truck	553365.8 6816259.8 2.5	160
		16.8
Road truck	553348.8 6816262.2 2.5	16.8
Road truck	553330.8 6816264.7 2.5	16.7
Road truck	553312 6816267.4 2.5	16.7
Road truck	553295.1 6816269.8 2.5	9.7
Road truck	553288.9 6816262.9 2.5	10.1
Road truck	553290.6 6816248.9 2.5	9.2
Road truck	553299.7 6816243 2.5	10.6
Road truck		
	553315.9 6816243.3 2.5	10.7
Road truck	553331.4 6816243.6 2.5	10.7
Road truck	553346.3 6816243.9 2.5	16.2
Road truck	553360.5 6816244.2 2.5	16.2
Road truck	553374.8 6816244 2.5	16.6
Road truck	553389.1 6816243.4 2.5	16.6
Road truck	553402.8 6816242.8 2.5	16.7
Road truck	553416.1 6816242.2 2.5	16.7
Road truck	553428.8 6816241.6 2.5	16.8
Road truck	553441.2 6816241 2.5	16.8
Road truck	553453.1 6816240.5 2.5	16.8
Road truck	553464.6 6816240 2.5	16.9
Road truck	553475.8 6816239.5 2.5	16.9
Road truck		
	553486.6 6816239 2.5	16.9
Road truck	553497.2 6816238.5 2.5	16.9
Road truck	553507.4 6816238.1 2.5	17
Road truck	553517.4 6816237.6 2.5	17
Road truck	553522.3 6816237.4 2.5	-10.8
Road truck	553529.2 6816244.4 2.5	17.2
Road truck	553539.3 6816243.1 2.5	17.3
Road truck	553549 6816241.8 2.5	17.3
Road truck	553558.5 6816240.5 2.5	17.4
Road truck	553567.7 6816239.2 2.5	17.4
Road truck	553576.8 6816238 2.5	17.4
Road truck	553585.5 6816236.9 2.5	17.4
Road truck	553594.1 6816235.7 2.5	17.4
Road truck		17.4
Road truck	553610.7 6816233.5 2.5	17.5
Road truck	553618.7 6816232.4 2.5	17.5
Road truck	553626.6 6816231.4 2.5	17.5
Road truck	553634.3 6816230.4 2.5	17.5
Road truck	553641.9 6816229.3 2.5	17.5
Road truck	553649.3 6816228.4 2.5	17.5
Road truck	553656.6 6816227.4 2.5	17.5
Road truck	553663.8 6816226.4 2.5	17.5
Road truck	553670.9 6816225.5 2.5	17.5
Road truck	553677.8 6816224.5 2.5	17.6
Road truck	553684.7 6816223.6 2.5	17.6
Road truck	553691.5 6816222.7 2.5	17.6
Road truck		
		17.6
Road truck	553704.8 6816220.9 2.5	17.6
Road truck	553711.3 6816220.1 2.5	17.6
Road truck	553717.8 6816219.2 2.5	17.6
Road truck	553724.1 6816218.4 2.5	17.6
Road truck	553730.5 6816217.5 2.5	17.7
Road truck	553736.7 6816216.7 2.5	17.7
Road truck	553743 6816215.8 2.5	17.7
Road truck	553749.1 6816215 2.5	17.7
Road truck	553755.3 6816214.2 2.5	17.7
Road truck	553761.4 6816213.4 2.5	17.7
Road truck	553767.4 6816212.6 2.5	17.7
Road truck	553773.5 6816211.8 2.5	17.7
Road truck	553779.4 6816211 2.5	17.7
Road truck		
	553785.4 6816210.2 2.5	17.7
Road truck	553791.4 6816209.4 2.5	17.8
Road truck	553797.3 6816208.6 2.5	17.8
Road truck	553800.4 6816208.2 2.5	3.1
Road truck	553803.3 6816205.7 2.5	18.7
Road truck	553808.7 6816200.8 2.5	18.8
Road truck	553814 6816196.1 2.5	
		18.8
Road truck	553819.2 6816191.5 2.5	18.8
Road truck	553824.2 6816187 2.5	18.8
Road truck	553829.2 6816182.6 2.5	18.8
Road truck	553834 6816178.3 2.5	18.9
Road truck	553838.8 6816174 2.5	18.9
		- 540



Road tr	nck	553843.4	6816169.9	25		18.9
Road tr		553847.4	6816166.3			17.7
	TRUCK	553475.4	6816194.3			15.8
	TRUCK	553462.6	6816196.7			15.8
	TRUCK	553449.1	6816199.3			15.7
	TRUCK	553435	6816201.9			15.7
	TRUCK	553420.1	6816204.7			
						15.6
	TRUCK	553404.4	6816207.7			15.6
	TRUCK	553387.8	6816210.8			15.6
	TRUCK	553370.2	6816214.1			15.5
	TRUCK	553351.5	6816217.6			11
	TRUCK	553331.6	6816221.3			10.9
	TRUCK	553310.4	6816225.3			10.8
	TRUCK	553287.7	6816229.5			10.8
	TRUCK		6816234.1			9
	TRUCK	553478	6816172.2			19
HAUL	TRUCK	553488.3	6816151.4	2.5		19.1
	TRUCK	553497.7	6816132.6	2.5		19.1
HAUL'	TRUCK	553506.1	6816115.6	2.5		19.2
HAUL '	TRUCK	553513.8	6816100.1	2.5		19.2
HAUL	TRUCK	553520.8	6816086	2.5		19.3
HAUL	TRUCK	553527.3	6816072.9	2.5		13.9
	TRUCK	553533.3				13.9
	TRUCK	553538.8	6816049.7			13.9
	TRUCK	553544	6816039.4			14
HAUL		553548.8	6816029.7			12.4
	TRUCK	553553.2	6816020.7			11
			6816012.2			
	TRUCK	553557.5				11.5
	TRUCK	553561.4	6816004.2			12
	TRUCK	553565.1	6815996.7			12.4
HAUL		553568.7	6815989.6			12.8
	TRUCK	553572	6815982.9			13.2
HAUL :		553575.2	6815976.5			13.4
HAUL	TRUCK	553578.2	6815970.5	2.5		13.7
HAUL	ΓRUCK	553581	6815964.7	2.5		13.7
HAUL	TRUCK	553583.8	6815959.2	2.5		13.7
HAUL	TRUCK	553586.4	6815954	2.5		13.7
HAUL	TRUCK	553588.9	6815948.9	2.5		13.6
HAUL	TRUCK	553591.3	6815944.1	2.5		13.6
HAUL		553593.6	6815939.5	2.5		13.6
HAUL		553595.8	6815935			13.5
HAUL		553597.9	6815930.7			13.5
	TRUCK	553600	6815926.6			13.5
	TRUCK	553601.9	6815922.6			13.4
HAUL 1		553603.3	6815919.9			9.4
THOL	Rock	555005.5	0015717.7	2.3		2,.
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
recopier	(m)		(m)	(m)		(dB(A))
R2A	553848.7	6815742.3		3.4		34.7
	X Posn	Y Posn	Height		Noise Leve	
Source			_			71
EVCAU	(m)	(m)	(m)		(dB(A))	24.9
EXCAV		553643.9	6815944.2			24.8
Generate		553406.4	6816251.5			19.9
EXCAV		553634.2	6815963.6			25.3
LOADE		553326.9	6816183.8			22.9
LOADE		553275.4	6816227.4			22.1
LOADE		553248.4	6816260.9			14.8
Road tru	ick	553380.6	6816257.7	2.5		8
Road tru	ıck	553361.3	6816260.4	2.5		8.9
Road tru	ick	553341.2	6816263.3	2.5		9.5
Road tru	ick	553320.2	6816266.2	2.5		9.9
Road tru	ıck	553298.8	6816269.3	2.5		9.7
Road tru	ick	553289.2	6816260.5	2.5		9.6
Road tru		553290.9	6816246.6			5.4
Road tru		553300.8	6816243	2.5		9.5
Road tru		553319.3	6816243.4			9.5
Road tru		553337.1	6816243.7			9.5
Road tru		553354.3	6816244.1			9.1
Road tru		553365	6816244.3			3.4
						8.7
Road tru		553376.1	6816244	2.5		
Road tru		553393.1	6816243.2			7.7
Road tru		553409.4	6816242.5			10
Road tru	ick	553425.3	6816241.8	2.3		14.9



Road truck	553440.6	6816241.1 2.5	14.9
Road truck	553455.5	6816240.4 2.5	14.9
Road truck	553469.9	6816239.7 2.5	15
Road truck	553483.9	6816239.1 2.5	15
Road truck	553497.5		6.9
Road truck	553510.7		6.9
Road truck	553519.8		2.9
Road truck	553530.8		7.1
Road truck	553544.1		7.5
Road truck	553556.9		7.5
Road truck	553569.4		7.6
Road truck	553581.6 553593.5		7.5
Road truck Road truck			15.5
Road truck	553605 553616.4		11. 1 / 11
Road truck		6816231.3 2.5	11
Road truck	553638.3		15.6
Road truck	553648.9		15.6
Road truck	553659.3		15.6
Road truck	553669.4		15.6
Road truck	553679.5		15.7
Road truck	553689.3		15.7
Road truck	553698.9		15.7
Road truck	553708.5	6816220.5 2.5	15.7
Road truck	553717.8	6816219.2 2.5	15.7
Road truck	553727	6816218 2.5	15.8
Road truck	553736.1	6816216.8 2.5	15.8
Road truck	553745.1		15.8
Road truck	553754	6816214.4 2.5	15.8
Road truck	553762.7		15.8
Road truck	553771.4		15.9
Road truck	553780		15.9
Road truck	553788.4		15.9
Road truck		6816208.7 2.5	15.6
Road truck Road truck	553805	6816204.2 2.5 6816196.4 2.5	17.5
Road truck	553813.7 553822.1		17.6 17.6
Road truck		6816181.7 2.5	17.7
Road truck	553838.1	6816174.7 2.5	17.7
Road truck	553845.5	6816168 2.5	17.6
HAUL TRUCK	553473.8	6816194.6 2.5	13.8
HAUL TRUCK	553457.7	6816197.7 2.5	9.3
HAUL TRUCK	553440.9	6816200.8 2.5	9.3
HAUL TRUCK	553423.3	6816204.1 2.5	7.8
HAUL TRUCK	553404.8	6816207.6 2.5	8.4
HAUL TRUCK	553385.5	6816211.2 2.5	8.9
HAUL TRUCK	553365.1	6816215 2.5	9.6
HAUL TRUCK	553343.7	6816219 2.5	9.6
HAUL TRUCK	553321		9.5
HAUL TRUCK	553297	6816227.8 2.5	9.5
HAUL TRUCK	553271.6	6816232.6 2.5	9.5
HAUL TRUCK	553254.6	6816235.7 2.5	3.8
HAUL TRUCK	553481.3	6816165.5 2.5	13.5
HAUL TRUCK	553497.6	6816132.8 2.5	12.3
HAUL TRUCK	553511.9	6816104 2.5	12.2
HAUL TRUCK HAUL TRUCK	553524.6 553536	6816078.4 2.5 6816055.5 2.5	12.8 13.3
HAUL TRUCK	553546.2	6816034.8 2.5	13.6
HAUL TRUCK	553555.5	6816016.1 2.5	13.6
HAUL TRUCK	553564	6815999 2.5	13.5
HAUL TRUCK	553571.8	6815983.4 2.5	13.5
HAUL TRUCK	553578.9	6815969 2.5	13.5
HAUL TRUCK	553585.5	6815955.7 2.5	13.5
HAUL TRUCK	553591.6	6815943.5 2.5	13.4
HAUL TRUCK	553597.3	6815932 2.5	13.3
HAUL TRUCK	553601.8	6815922.8 2.5	11.9



Receptor	X Posn	Y Posn	Height	Ground		Noise Level
Dan	(m)	(m)	(m)	(m)		(dB(A))
R2B	554002.8	6815828.9		4		35.6
Source	X Posn	Y Posn	Height (m)		Noise Leve	el
EXCAV	(m) ATOR	553643.9	6815944.2	2.5	(dB(A))	20.6
Generate		553406.4	6816251.5			18.8
EXCAV		553634.2	6815963.6			22.1
LOADE	R	553326.8	6816183.8	2.5		25.3
LOADE	R	553284.8	6816215.6			22.1
LOADE		553260.9	6816245.4			22
LOADE		553246.1	6816263.9 6816258.4			14.1
Road tru Road tru		553375.3 553344.6	6816262.8			16 15.9
Road tru		553311.5	6816267.5			15.7
Road tru		553291	6816270.4			8
Road tru		553289.1	6816261.6			12.8
Road tru	ck	553290.8	6816247.6	2.5		10.2
Road tru		553305	6816243.1			14.8
Road tru		553331.1	6816243.6			14.8
Road tru		553355.6	6816244.1			14.9
Road tru Road tru		553380.2 553404.8	6816243.8 6816242.7			15.4 15.5
Road tru		553404.8	6816241.6			15.6
Road tru		553450	6816240.6			15.7
Road tru		553470.9	6816239.7			15.7
Road tru	ck	553490.8	6816238.8	2.5		15.8
Road tru	ck	553509.7	6816237.9	2.5		15.8
Road tru		553520.6	6816237.5			8.7
Road tru		553533.9	6816243.8			16.3
Road tru		553552.9	6816241.2			16.5
Road true		553570.9 553588	6816238.8 6816236.5			16.5 16.5
Road tru			6816234.4			16.6
Road tru		553620.1	6816232.3			16.7
Road true		553635.1	6816230.3			16.7
Road tru	ck	553649.4	6816228.3	2.5		16.7
Road true		553663.3	6816226.5			16.8
Road true			6816224.7			16.8
Road true				2.5		12.1
Road true Road true			6816221.4 6816219.8			16.9 16.9
Road true			6816218.2			17
Road true			6816216.7			17
Road true	ck		6816215.3			17
Road true	ck		6816213.9	2.5		17.1
Road true			6816212.5			17.1
Road true			6816211.2			17.1
Road true			6816209.9			17.2 16.9
Road true Road true			6816208.7 6816201.1			20.9
Road true			6816187.9			21
Road true			6816175.8			21.1
Road true			6816167.5			18.2
HAUL T		553468.1	6816195.7	2.5		15.2
HAULT			6816201.1			15.1
HAULT			6816206.9			15
HAUL T HAUL T			6816213.3 6816220.3			14.9 14.9
HAUL T				2.5		14.9
HAUL T			6816234.3			11.7
HAUL T			6816173.7			4.4
HAUL T	RUCK	553486.7	6816154.8	2.5		14.5
HAUL T			6816136.9			4.5
HAUL T				2.5		4.6
HAULT				2.5		4.6
HAUL T			6816088.8 : 6816074.3 :			4.7
HAUL T			6816060.5			4.7
HAUL T			6816047.3			4.8
HAULT			6816034.7			4.8
HAUL T			6816022.6			4.8
HAULT	RUCK	553558.1	6816011	2.5	1	4.9



HAIII	TRUCK	553563.6	6815999.9	225	9.9
	TRUCK		6815989.		9.9
	TRUCK	553574.1			
					10.1
	TRUCK	553579	6815968.8		7.2
	TRUCK	553583.8			8.8
	TRUCK	553588.4			9.7
	TRUCK		6815940.8		9.9
HAUL	TRUCK	553597.3	6815932	2.5	9.8
HAUL	TRUCK	553601.5	6815923.5	5 2.5	9.8
HAUL	TRUCK	553603.6	6815919.3	3 2.5	-5.8
Receptor	X Posn	Y Posn	Height	Ground	Noise Level
	(m)	(m)	(m)	(m)	(dB(A))
R3	553634.8	6815756.9	1.8	3.6	38.2
Source	X Posn	Y Posn	Height		Noise Level
	(m)	(m)	(m)		(dB(A))
EXCA	VATOR	553643.9			32.7
Genera			6816251.5		21.4
-	VATOR	553634.2			33
LOADI		553346	6816172.7		20.4
LOADI		553327.3			20.4
LOADI		553307	6816195.3		
LOADI					20.4
	7.7	553296.1			-1.4
LOADI			6816231.8		24.7
Road tr		553384	6816257.2		9.9
Road tr		553372.1			9.9
Road tr		553359.9	6816260.6	2.5	9.9
Road tr		553347.4	6816262.4	2.5	9.9
Road tr	uck	553334.5	6816264.2	2.5	9.9
Road tr	uck	553321.3	6816266.1	2.5	9.9
Road tr	uck	553307.6	6816268	2.5.	9.9
Road tr	uck	553294.4	6816269.9	2.5	9.4
Road tri	uck		6816259.2		12
Road tr		553291	6816245.4		5.9
Road tr			6816242.9		9.7
Road tri			6816243.2		9.7
Road tri			6816243.4		9.7
Road tr					
		553333.5	6816243.7		9.7
Road tru		553345	6816243.9		9.7
Road tr		553356.3	6816244.1		9.7
Road tri		553364.6			6.7
Road tra		553373	6816244.1	2.5	9.8
Road tru	uck	553384.2	6816243.6	2.5	9.8
Road tn	uck	553395.1	6816243.1	2.5	9.8
Road tru	ack	553405.7	6816242.6	2.5	9.8
Road tru	ick	553416.2	6816242.2	2.5	9.7
Road tru	ick	553426.5	6816241.7	2.5	9.7
Road tru	ick	553436.7	6816241.2	2.5	10
Road tru	ick	553446.7	6816240.8		10
Road tru		553456.5	6816240.3		10
Road tri		553466.2	6816239.9		10
Road tru		553475.7	6816239.5		10
Road tru		553485.1	6816239.1		10
Road tru		553494.4	6816238.6		10
Road tru		553503.6	6816238.2		10
Road tru		553512.7	6816237.8		10
Road tru		553519.7	6816237.5		7.6
Road tru		553528.7	6816244.5		9.9
Road tru		553537.8	6816243.2		9.8
Road tru		553546.8		2.5	10.2
Road tru		553555.7	6816240.9		10.2
Road tru		553564.6	6816239.7	2.5	10.3
Road tru	ick	553573.3	6816238.5	2.5	10.3
Road tru	ıck	553581.9	6816237.4	2.5	10.2
Road tru	ick	553590.5	6816236.2	2.5	10.1
Road tru		553599	6816235.1		10.1
Road tru		553607.5	6816233.9		10.1
Road tru		553615.9	6816232.8		10.2
Road tru		553624.2	6816231.7		10.2
Road tru		553632.5	6816230.6		10.2
Road tru		553640.8	6816229.5		10.2
Road tru		553649	6816228.4		10.1
Road tru	ick	553657.2	6816227.3	4.3	10,2



Road tru	ick	553665.3	6816226.2	25		10.3
Road tr		553673.5	6816225.1			10.3
Road tru		553681.6	6816224	2.5		10.4
Road tru		553689.7	6816223	2.5		10.5
Road tru		553697.8	6816221.9			10.5
Road tru	ick	553706	6816220.8	2.5		10.5
Road tru	ick	553714.1	6816219.7	2.5		9.9
Road tru	ick	553722.2	6816218.6	2.5		8.8
Road tru	ick	553730.4	6816217.5	2.5		15.7
Road tru		553738.5				15.7
Road tru		553746.7	6816215.3			15.8
Road tru		553755	6816214.2			15.8
Road tru		553763.2				15.8
Road tru		553771.5	6816212	2.5		15.8
Road tru	ick	553779.9	6816210.9	2.5		15.8
Road tru	ick	553788.3	6816209.8	2.5		15.8
Road tru	ick	553796.5	6816208.7	2.5		15.5
Road tru	ick	553803.8	6816205.2	2.5		16
Road tru		553810.5	6816199.2	2.5		16
Road tru		553817	6816193.4			16
Road tru						16
		553823.5	6816187.6			
Road tru		553829.9	6816181.9			16.1
Road tru		553836.3	6816176.3			16.1
Road tru	ick	553842.6	6816170.7	2.5		16.1
Road tru	ick	553847.4	6816166.3	2.5		13.6
HAULT	RUCK	553477	6816194	2.5		9
HAULT	RUCK	553467.7	6816195.8	2.5		9
HAULT	RUCK	553458.1	6816197.6	2.5		9
HAUL 1		553448.4	6816199.4			8.7
HAUL T		553438.4	6816201.3			8.7
		553428.1				
HAULT			6816203.2			8.7
HAUL T		553417.7	6816205.2			8.7
HAUL T	RUCK	553406.9	6816207.2	2.5		8.8
HAULT	RUCK	553395.8	6816209.3	2.5		8.8
HAUL 1	RUCK	553384.5	6816211.4	2.5		8.8
HAUL T	RUCK	553372.8	6816213.6	2.5		8.8
HAUL T		553360.7	6816215.9			9.2
HAULT		553348.3	6816218.2			9.2
			6816220.6			9.2
HAULT		553335.4				
HAUL T		553322.2	6816223.1			9.2
HAUL T		553308.4	6816225.7			9.2
HAUL T	RUCK	553294.2	6816228.3	2.5		9.2
HAUL T	RUCK	553279.5	6816231.1	2.5		9.2
HAUL T	RUCK	553264.1	6816234	2.5		9.2
HAUL T	RUCK	553253.6	6816235.9	2.5		4.4
HAUL T			6816149.7			18.3
HAUL T		553515.6	6816096.5			18.5
HAUL T		553535.5	6816056.3			18.5
HAUL T						
		553551.1	6816025	2.5		18.5
HAULT			6815999.9			18.5
HAUL T		553573.8	6815979.3			18.4
HAUL T		553582.4	6815962	2.5		18.4
HAUL T	RUCK	553589.6	6815947.4	2.5		18.3
HAUL T	RUCK	553595.9	6815934.8	2.5		18.3
HAUL T	RUCK	553601.3	6815924	2.5		18.1
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
receptor	(m)	(m)	(m)	(m)		(dB(A))
D 4 A		6815469.6				30.9
R4A	552797.6			16.9		
Source	X Posn	Y Posn	Height		Noise Leve	1
	(m)	(m)	(m)		(dB(A))	
EXCAV.	ATOR	553643.9	6815944.2	2.5		18.4
Generate	or .	553406.4	6816251.5	1		15.8
EXCAV.	ATOR	553634.2	6815963.6	2.5		18.3
LOADE	R	553348	6816171.5	2.5		16.9
LOADE		553334.5	6816179.3			16.9
LOADE		553321	6816187.2			16.9
				2.5		16.9
LOADE		553307.5	6816195			
LOADE		553298.4	6816200.3			12.4
LOADE		553291	6816208	2.5		17.1
LOADE		553280.8	6816220.7			17.1
LOADE	R	553270.4	6816233.6	2.5		17.1
LOADE	R	553259.9	6816246.6	2.5		17.1



LOADER 553249.3 6816259.8 2.5 17.1 Road truck 553340.1 6816260.4 2.5 10.7 Road truck 553361.1 6816260.4 2.5 10.7 Road truck 553342.4 6816265.7 2.5 10.8 Road truck 553342.4 6816265.7 2.5 10.8 Road truck 553305.9 6816268.3 2.5 10.8 Road truck 55329.5 6816270.2 2.5 7.9 Road truck 55329.6 6816270.2 2.5 7.9 Road truck 55329.6 6816274 2.5 2.3 Road truck 553391.2 6816244 2.5 2.3 Road truck 553391.2 6816244 2.5 11.4 Road truck 553391.8 6816243 2.5 11.4 Road truck 553391.8 6816243 2.5 11.4 Road truck 553370.8 6816243 2.5 11.4 Road truck 553370.8 6816243 2.5 11.4 Road truck 553371.5 6816243 2.5 11.2 Road truck 553391.2 6816243 2.5 11.2 Road truck 553392.8 6816243 2.5 11.2 Road truck 553392.8 6816243 2.5 11.2 Road truck 553341.4 6816241 2.5 10.2 Road truck 553461.4 6816241 2.5 10.2 Road truck 553461.6 6816241 2.5 10.9 Road truck 553463.4 6816240 2.5 10.9 Road truck 553463.4 6816240 2.5 10.9 Road truck 553539.9 6816237.9 2.5 10.9 Road truck 553535.4 6816237.9 2.5 10.8 Road truck 553535.4 6816237.9 2.5 10.8 Road truck 55358.6 6816243.5 2.5 10.4 Road truck 55360.9 6816237.9 2.5 10.4 Road truck 55360.9 6816237.9 2.5 10.4 Road truck 55360.9 6816237.2 2.5 10.4 Road truck 55360.9 6816237.2 2.5 10.4 Road truck 55360.9 6816237.9 2.5 10.4 Road truck 55360.9 6816237.9 2.5 10.4 Road truck 55360.9 6816230.7 2.5 10.3 Road truck 55360.9 6816230.7 2.5 10.2 Road truck 55370.0 6816210.2 2.5 10.1 Road truck 55370.0 6816210.2 2.5 10.1 Road truck 55370.0 6816210.2 2.5 10.2 Road truck 55370.0 6816210.2 2.5 10.2 Road truck 55380.8 6816200.2 2.5 10.4 Road truck 55370.9 6816220.2 2.5 10.2 Road truck 55380.9 6816220.2 2.5 10.2 Road truck 55360.9 6816230.2 2.5 10.4 Road truck 55360.9 6816230.2 2.5 10.4 Road truck 55360.9 6816230.2 2.5 10.4 Road truck 55370.0 6816210.2 2.5 10.2 Road truck 55370.0 6816210.2 2.5 10.2 Road truck 55380.8 681600.2 2.5 10.4 Road truck 55370.0 6816210.2 2.5 10.2 Road truck 55350.0 681600.2 2.5 8.8 RAUL TRUCK 553484.5 681600.2 2.5 8.8 RAUL TRUCK 553484.5 681600.2 2.5 8.8 RAUL TRUCK 553500.2 6816000.2 2.5 8.4 RAUL TRUCK 5535				
Road truck 553341.1 6816260.4 2.5 10.7 Road truck 553342.4 6816265.7 2.5 10.8 Road truck 553342.6 8816265.7 2.5 10.8 Road truck 553329.5 6816265.7 2.5 10.8 Road truck 553291.2 6816263.2 2.5 12.6 Road truck 553291.2 6816243.2 5 12.6 Road truck 553291.2 6816243.2 5 12.6 Road truck 553301.6 8816243.4 2.5 12.6 Road truck 553301.6 8816243.4 2.5 11.4 Road truck 553308.8 6816243.4 2.5 11.4 Road truck 553308.8 6816243.4 2.5 11.4 Road truck 553359.3 6816244.2 2.5 10.2 Road truck 553359.3 6816244.2 2.5 10.2 Road truck 553375.5 6816243.9 2.5 11.4 Road truck 553375.6 6816243.9 2.5 11.4 Road truck 553341.4 6816243.8 2.5 11.4 Road truck 55341.4 6816243.9 2.5 11.4 Road truck 55341.4 6816243.9 2.5 11.4 Road truck 55341.4 6816241 2.5 10.9 Road truck 55341.4 6816240 2.5 10.9 Road truck 553463.4 6816240 2.5 10.9 Road truck 553463.4 6816240 2.5 10.9 Road truck 553559.9 6816237.9 2.5 10.8 Road truck 553559.4 6816237.9 2.5 10.8 Road truck 553559.4 6816237.2 2.5 10.8 Road truck 553558.4 6816237.2 2.5 10.4 Road truck 55362.2 16816237.2 2.5 10.4 Road truck 55362.2 16816237.2 2.5 10.4 Road truck 553632 6816240.5 2.5 10.4 Road truck 553632 6816230.7 2.5 10.3 Road truck 553632 6816230.7 2.5 10.3 Road truck 553632 6816230.7 2.5 10.2 Road truck 553632 6816230.7 2.5 10.2 Road truck 553657.9 6816224.2 2.5 10.1 Road truck 553712.1 6816220.2 2.5 10.1 Road truck 553740.6 6816210.2 2.5 10.1 Road truck 553740.6 6816210.2 2.5 10.1 Road truck 55388.8 6816209.2 2.5 6.9 Road truck 553841.5 6816121.2 2.5 10.4 Road truck 553841.5 6816121.2 2.5 10.4 Road truck 553841.5 6816290.2 2.5 6.9 Road truck 553841.5 6816210.2 2.5 10.1 Road truck 553841.5 6816290.2 2.5 8.4 ROAD truck 55342.6 6816220.2 2.5 10.1 Road truck 553590.8 6816230.2 2.5 8.4 ROAD truck 553362.6 6816230.2 2.5 8.4 ROAD truck 553362.6 6816230.2 2.5 8.4 ROAD truck 553362.6 6816230.2 2.5 8.8 ROAD truck 553362.6 6816230.2 2.5 8.8 ROAD truck 553362.6 6816200.2 2.5 8.8 ROAD truck 553362.6	LOADER	553249.3	6816259.8 2.5	17.1
Road truck 5533424 6816263.1 2.5 10.8 Road truck 553324 6816267.2 2.5 10.8 Road truck 553305.9 6816268.3 2.5 10.8 Road truck 553289.6 6816257.8 2.5 12.6 Road truck 553289.6 6816243 2.5 12.6 Road truck 553291.2 6816244 2.5 2.3 Road truck 553320.8 6816243.8 2.5 11.4 Road truck 553320.8 6816243.8 2.5 11.4 Road truck 553341 6816243.8 2.5 11.4 Road truck 553399.2 6816243.8 2.5 11.4 Road truck 553341 6816243.8 2.5 11.4 Road truck 553346.3 6816243.2 2.5 11.4 Road truck 553463.4 6816243 2.5 11.4 Road truck 553441.1 6816241 2.5 10.9 Road truck 5534461.3 6816240 2.5 10.9 Road truck 553463.4 6816230 2.5 10.9 Road truck 553463.4 6816230 2.5 10.9 Road truck 553522.1 6816237.4 2.5 8.6 Road truck 553558.6 6816240.5 2.5 10.4 Road truck 553560.9 6816237.7 2.5 10.2 Road truck 553560.9 6816237.7 2.5 10.2 Road truck 553664.6 6816220.2 2.5 10.1 Road truck 553664.6 6816220.2 2.5 10.1 Road truck 55370.6 6816220.2 2.5 10.1 Road truck 55370.6 6816220.2 2.5 10.1 Road truck 553740.6 6816220.2 2.5 10.1 Road truck 553740.6 6816210.2 2.5 10.1 Road truck 553451.5 6816171.6 2.5 10.2 Road truck 553451.5 6816171.6 2.5 10.2 Road truck 553451.5 6816171.6 2.5 10.2 Road truck 553451.5 6816120.2 2.5 10.1 Road truck 553451.5 6816120.2 2.5 10.1 Road truck 553451.5 681620.2 2.5 8.4 ROAD truck 553351.5 681620.2 2.5 8.5 ROAD truck				
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HAUL TRUCK 553567.8 6815991.4 2.5 8.5 HAUL TRUCK 553575.1 6815976.7 2.5 8.5 HAUL TRUCK 553582.3 6815962.1 2.5 8.5 HAUL TRUCK 553589.5 6815947.6 2.5 8.5 HAUL TRUCK 553596.7 6815933.1 2.5 8.5				
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HAUL TRUCK 553596.7 6815933.1 2.5 8.5				
III.Q.D. II.Q.Q.C. 000004 0010722.0 2.0 5.2				
	INTO LICOUR	000002	0013766.3 6.3	3.4



Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
R4B	552865.6	6815421	1.8	18.9	17 · Y	30.9
Source	X Posn (m)	Y Posn (m)	Height (m)		Noise Lev (dB(A))	el
EXCAV		553643.9		25	(dD(A))	18.9
Generate		553406.4				15.7
EXCAV		553634.2				18.9
LOADE	R	553348.1	6816171.4	2.5		16.8
LOADE	R	553334.6	6816179.3	2.5		16.8
LOADE	R	553321.2				16.8
LOADE		553307.7				16.8
LOADE		553298.5				12.4
LOADE		553290.8				17.1
LOADE		553280.1	6816221.5			17.1
LOADE LOADE		553269.2 553258.2				17.1 17.1
LOADE		553248.3				15.9
Road tru		553380.6				10.4
Road tru		553362.2				10.5
Road tru		553344.1				10.5
Road tru	ck	553326.2	6816265.4	2.5		10.5
Road tru	ck	553308.6	6816267.9	2.5		10.5
Road tru	ck	553293.9	6816270	2.5		8.9
Road tru	ck	553289.7	6816256.6	2.5		12.8
Road tru		553300.6		2.5		11.1
Road tru		553319.3				11
Road tru		553338.5				11
Road tru		553357.7				10.8
Road tru		553377	6816243.9			10.8
Road tru		553396.6		2.5		10.7
Road tru		553416.6 553437	6816242.1 6816241.2			10.7 10.7
Road tru		553457.8	6816240.3			10.7
Road tru		553479.1	6816239.3			10.6
Road tru		553501	6816238.3			10.6
Road tru		553517.2				7.1
Road tru		553534.8	6816243.7			10.2
Road true	ck	553556.5	6816240.7	2.5		10.2
Road tru	ck	553578.8	6816237.8	2.5		10.1
Road true	ck	553601.6	6816234.7			10.1
Road tru		553624.9				10.1
Road tru		553648.8				10
Road tru		553673.3				9.9
Road true		553698.5				9.9
Road true		553751.1	6816218.3 6816214.8			9.9 9.8
Road true			6816211.1			9.8
Road true			6816208.7			4.2
Road true			6816201			8.5
Road true			6816186.6			8.5
Road true	ck	553841	6816172.1			8.5
HAUL T	RUCK	553472.1	6816195	2.5		8.5
HAUL T			6816198.5			8.5
HAUL T		553434.7		2.5		8.6
HAUL T			6816205.4			8.6
HAULT			6816208.7			8.6
HAUL T			6816212.1			8.6 8.7
HAULT			6816215.3 6816218.5			8.7
HAUL T			6816221.7			8.7
HAULT			6816224.9			8.7
HAULT		553296.1		2.5		8.7
HAUL T		553279.8	6816231	2.5		8.8
HAUL T	RUCK		6816234.1			8.8
HAULT		553253.3	6816236	2.5		3.4
HAUL T			6816175.2			8.5
HAUL T			6816158.6			8.5
HAULT			6816142.3			8.5
HAUL T			6816126.2			8.5
HAULT			6816110.4			8.6 8.6
HAUL T		553516.5	6816094.7 6816079.3			8.6
ALLEU L	ROOK	JJJJ24.1	0010019.3			



	TRUCK	553531.7				8.6
HAUL	TRUCK	553539.2	6816048.9	2.5		8.6
	TRUCK	553546.6		2.5		8.6
HAUL	TRUCK	553554	6816019.2	2.2.5		8.6
HAUL	TRUCK	553561.3	6816004.5	2.5		8.6
	TRUCK	553568.5				8.7
HAUL	TRUCK	553575.7	6815975.5	5 2.5		8.7
HAU	TRUCK	553582.8	6815961.2	25		8.7
HAUL	TRUCK	553589.8	6815947	2.5		8.7
HAUL	TRUCK	553596.9	6815932.8	2.5		8.7
	TRUCK	553602	6815922.5			5.4
HACL	INOCK	333002	0013722.3	2.3		3.4
_						
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
DEA						
R5A	552762.8			24.1		33.6
Source	X Posn	Y Posn	Height		Noise Lev	el
	(m)	(m)	(m)		(dB(A))	
EVOLV	0.00			2.5	(dD(II))	20.2
EXCAV	ATOR	553643.9		2.3		20.3
Generat	or	553406.4	6816251.5	1		19.1
EXCAV	ATOR	553634.2		25		20.4
LOADE	ER	553348.9	6816171	2.5		18.9
LOADE	ER	553337.2	6816177.8	2.5		18.9
LOADE		553325 7	6816184.4	2.5		18.9
LOADE	R	553314.5	6816191	2.5		18.9
LOADE	R	553303.5	6816197.3	2.5		18.9
LOADE		553297.1				11.8
LOADE	ER	553292.7	6816205.9	2.5		18.4
LOADE	P	553285.8	6816214.4	2.5		18.4
LOADE	.R	553279.1	6816222.8	2.5		18.4
LOADE	ER.	553272.3	6816231.2	2.5		18.4
			6816239.6			18.4
LOADE						
LOADE	ER.	553258.8	6816248	2.5		18.4
LOADE	R	553252.1	6816256.3	25		18.4
LOADE	R	553246.4	6816263.5	2.5		17
Road tn	ick	553379.9	6816257.8	2.5		14.1
Road tru	ick	553360.6	6816260.5	25		14.1
Road tru	ick	553342	6816263.1	2.5		14.2
Road tru	ıck	553324.2	6816265.7	2.5		14.2
Road tru		553307.1	6816268.1			14.3
Road tru	ıck	553293.4	6816270	2.5		12.5
Road tru	ick	553288.8	6816264.4	2.5		13.4
Road tru			6816251.7			13.4
Road tru	ıck	553291.2	6816244.1	2.5		6.7
Road tru	ick	553301.8	6816243	2.5		15.5
Road tru			6816243.5			15.5
Road tru	ıck	553346.4	6816243.9	2.5		15.4
Road tru	ole		6816244.3			11
Road tru		553378.7				14.8
Road tru	ıck	553402.4	6816242.8	2.5		14.8
Road tru		553427.4	6816241.7			14.7
Road tru		553453.9	6816240.5			14.6
Road tru	ıck	553482.1	6816239.2	2.5		14.5
Road tru		553509.4	6816238	2.5		13.6
Road tru		553537.7	6816243.3			13.6
Road tru	ıck	553566.1	6816239.5	2.5		13.6
Road tru		553596.1	6816235.5			13.5
Road tru	ick	553628.1	6816231.2	2.5		13.4
Road tru	ıck	553662	6816226.7	2.5		13.3
Road tru		553698.3	6816221.8			13.2
Road tru	ick	553737	6816216.6	2.5		13.1
Road tru	ick	553778.6	6816211.1	2.5		13
Road tru		553808.8	6816200.8			9.9
Road tru		553825.7	6816185.7	2.5		9.8
Road tru	ick	553841.7	6816171.5	2.5		9.1
HAUL T		553469.7	6816195.4			11.9
HAUL T	RUCK	553446.8	6816199.7	2.5		11.9
HAUL T	RUCK	553424.9	6816203.8	2.5		12
HAUL T		553404.1	6816207.7			12
HAUL T	RUCK	553384.2	6816211.4	2.5		12
HAUL T	RUCK	553365.2	6816215	2.5		12.1
HAUL T		553347	6816218.4			12.2
HAUL T	RUCK	553329.5	6816221.7	2.5		12.2
HAUL T		553312.7	6816224.9			12.2
IIII I		200141	201022 1,7			. ~ . ~



HALII	TRUCK	553296.5	6816227.9	25		12.3
	TRUCK		6816230.8			12.3
	TRUCK		6816233.6			12.3
	TRUCK		6816235.7			9.6
HAUL	TRUCK		6816177.5			9.4
HAUL	TRUCK	553481.4	6816165.4	2.5		9.4
HAUL	TRUCK	553487.4	6816153.3	2.5		9.4
HAUL	TRUCK	553493.4	6816141.1	2.5		9.4
	TRUCK	553499.5				9.4
	TRUCK		6816116.6			9.4
	TRUCK	553503.0				9.4
	TRUCK		6816091.9			9.4
	TRUCK	553524.1				9.4
HAUL	TRUCK	553530.4	6816066.7	2.5		9.4
HAUL	TRUCK	553536.7	6816054	2.5		9.4
HAUL	TRUCK	553543.1	6816041.2	2.5		9.4
HAUL.	TRUCK	553549.5	6816028.3	2.5		9.4
	TRUCK	553556	6816015.2			9.3
	TRUCK		6816001.9			9.3
						9.3
	TRUCK		6815988.6			
	TRUCK		6815975	2.5		9.3
	TRUCK		6815961.3			9.3
HAUL	TRUCK	553589.6	6815947.4	2.5		9.3
HAUL '	TRUCK	553596.6	6815933.3	2.5		9.3
	TRUCK	553601.9	6815922.7	2.5		6.2
11102			000000000000000000000000000000000000000			ALTE
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
Receptor						
n an	(m)	(m)	(m)	(m)		(dB(A))
R5B	552747.8	6815977.7		26.9		33.9
Source	X Posn	Y Posn	Height		Noise Lev	el
	(m)	(m)	(m)		(dB(A))	
EXCAV	ATOR	553643.9	6815944.2	2.5	9999	20.6
Generat			6816251.5			19.3
EXCAV			6815963.6			20.6
						19.5
LOADE			6816171.3			
LOADE			6816178.6			19.5
LOADE			6816185.7			19.5
LOADE	ER	553311.7	6816192.6	2.5		19.5
LOADE	R	553300.9	6816198.8	2.5		18.8
LOADE	ER	553292.7	6816205.9	2.5		18.7
LOADE		553286	6816214.2			18.7
LOADE		553279.4				18.7
LOADE			6816230.6			18.7
LOADE			6816238.7			18.7
LOADE	ER	553259.8	6816246.7	2.5		18.7
LOADE	ER	553253.4	6816254.7	2.5		18.7
LOADE	R	553247.1	6816262.6	2.5		18.6
Road tru	ick	553378.5	6816258	2.5		15
Road tru	ick	553356.6	6816261.1			15.1
Road tru			6816264	2.5		15.2
Road tre			6816266.8			15.2
		553316.2				15.3
Road tru		553297.4	6816269.5			
Road tn		553288.2	6816270.8			-1.2
Road tru	ick	553288.7	6816265.1			13.4
Road tru	ıck	553290	6816253.8	2.5		13.4
Road tru	ick	553291	6816245.5	2.5		10.3
Road tru	ick	553304.2	6816243.1	2.5		16.9
Road tru		553331.3	6816243.6			16.8
Road tru		553356.4	6816244.1			15.3
Road tru			6816243.7			16
		553381.1				
Road tru		553410.2	6816242.4			15.9
Road tru		553441.5	6816241	2.5		15.8
Road tru		553475.5	6816239.5			15.7
	ick	553507.7	6816238	2.5		14.4
Road tru	ick	553540.2	6816242.9	2.5		14.5
Road tru Road tru		553574.3	6816238.4			14.5
Road tru		553611	6816233.5			14.4
Road tru Road tru			0010403.3			14.2
Road tru Road tru Road tru			6816228 2			
Road tru Road tru Road tru Road tru	ıck	553650.6	6816228.2			
Road tru Road tru Road tru Road tru Road tru	ick ick	553650.6 553693.7	6816222.4	2.5		14.1
Road tru Road tru Road tru Road tru Road tru Road tru	ick ick ick	553650.6 553693.7 553740.6	6816222.4 6816216.2	2.5 2.5		14.1 14
Road tru Road tru Road tru Road tru Road tru	ick ick ick	553650.6 553693.7	6816222.4	2.5 2.5		14.1 14 12.1
Road tru Road tru Road tru Road tru Road tru Road tru	ick ick ick ick	553650.6 553693.7 553740.6	6816222.4 6816216.2	2.5 2.5 2.5		14.1 14
Road tru Road tru Road tru Road tru Road tru Road tru Road tru	ick ick ick ick ick	553650.6 553693.7 553740.6 553782.8	6816222.4 6816216.2 6816210.5	2.5 2.5 2.5 2.5		14.1 14 12.1



Road tr	uck	553842.6	6816170.	6 2.5	8.5
	TRUCK	553467.4			12.8
HAUL	TRUCK	553440.4	6816200.	9 2.5	12.9
	TRUCK	553415	6816205.		12.9
	TRUCK	553391.2	6816210.		13
	TRUCK	553368.7			13
	TRUCK	553347.5			13.1
	TRUCK TRUCK	553327.4			13.2 13.2
	TRUCK	553308.3 553290.2			13.2
	TRUCK	553273	6816232		13.3
	TRUCK	553257.7			12.6
HAUL	TRUCK		6816177.5		9.5
HAUL '	TRUCK	553481.4	6816165.5	5 2.5	9.5
	TRUCK		6816153.3		9.5
	TRUCK		6816141.		9.5
	TRUCK		6816128.7		9.5
	TRUCK		6816116.3		9.5
	TRUCK TRUCK	553512.1	6816103.3 6816090.9		9.5 9.5
	TRUCK	553524.8		2.5	9.5
	TRUCK		6816065	2.5	9.5
	TRUCK	553537.8			9.5
	TRUCK	553544.4			9.4
HAUL		553551.2	6816024.9		9.4
HAUL		553558	6816011.1	2.5	9.4
HAUL		553565	6815997.1	2.5	9.4
HAUL		553572	6815982.9	2.5	9.4
HAUL		553579.2			9.4
HAUL		553586.5			9.3
HAUL 7		553594	6815938.7		9.3
HAUL	IRUCK	553600.7	6815925.1	2.3	8.2
Receptor	X Posn	Y Posn	Height	Ground	Noise Level
receptor	(m)	(m)	(m)	(m)	(dB(A))
R6A	552849.5	6816597	1.8	7.7	34.8
Source	X Posn	Y Posn	Height		Noise Level
	(m)	(m)	(m)		
	(111)	(111)	(111)		(dB(A))
EXCAV	, ,	553643.9	6815944.2	2.5	(dB(A)) 19.8
Generate	ATOR or	553643.9 553406.4	6815944.2 6816251.5	1	19.8 19.7
Generate EXCAV	ATOR or ATOR	553643.9 553406.4 553634.2	6815944.2 6816251.5 6815963.6	1 2.5	19.8 19.7 20
Generate EXCAV LOADE	ATOR Or ATOR R	553643.9 553406.4 553634.2 553327.9	6815944.2 6816251.5 6815963.6 6816183.2	1 2.5 2.5	19.8 19.7 20 26.2
Generate EXCAV LOADE LOADE	ATOR or ATOR R R	553643.9 553406.4 553634.2 553327.9 553299.7	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6	2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3
Generate EXCAV LOADE LOADE LOADE	ATOR or ATOR R R R	553643.9 553406.4 553634.2 553327.9 553299.7 553277.6	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6	2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9
Generate EXCAV LOADE LOADE LOADE LOADE	ATOR or ATOR R R R R	553643.9 553406.4 553634.2 553327.9 553299.7 553277.6 553252.2	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816256.2	2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5
Generate EXCAV LOADE LOADE LOADE	ATOR OF ATOR R R R R R	553643.9 553406.4 553634.2 553327.9 553299.7 553277.6 553252.2 553376.6	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4
Generate EXCAV LOADE LOADE LOADE LOADE Road tru	ATOR OF ATOR R R R R R R ck	553643.9 553406.4 553634.2 553327.9 553299.7 553277.6 553252.2 553376.6 553351.6	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816256.2	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5
Generate EXCAV LOADE LOADE LOADE LOADE Road tru Road tru	ATOR or ATOR R R R R R cck cck	553643.9 553406.4 553634.2 553327.9 553299.7 553277.6 553252.2 553376.6 553351.6	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816261.8	5 1 5 2.5 5 2.5 5 2.5 5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4
Generate EXCAV LOADE LOADE LOADE LOADE Road tru Road tru Road tru	ATOR or ATOR R R R R ck ck ck	553643.9 553406.4 553634.2 553327.9 553299.7 553277.6 553252.2 553376.6 553351.6 553328.4	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816261.8 6816265.1 6816262.6	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9
Generate EXCAV LOADE LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R R ck cck cck cck	\$53643.9 553406.4 553634.2 553327.9 553299.7 55327.6 553252.2 553351.6 553351.6 553328.4 553292.2 553288.8	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816256.2 6816256.2 6816261.8 6816262.8 6816264.2 6816264.2	1 1 2.2.5 2.	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9
Generate EXCAV LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R ck cck cck cck cck	\$53643.9 553406.4 553634.2 553327.9 553297.6 553252.2 553376.6 553328.4 553328.4 553292.2 55328.8 553290.4	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816258.2 6816258.2 6816265.1 6816268.2 6816264.2 6816270.2	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9
Generate EXCAV LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R ck ck ck ck ck ck	\$53643.9 553406.4 553634.2 553327.9 553297.6 553252.2 553376.6 553351.6 553328.4 553306.7 553292.2 553288.8 553290.4 553291.3	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816258.2 6816265.1 6816265.1 6816265.2 6816270.2 681624.3	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 4.4
Generate EXCAV LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R ck ck ck ck ck ck	\$53643.9 553406.4 553634.2 553327.9 553299.7 553252.2 553351.6 553328.4 553390.4 553291.3 553291.3	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816258.2 6816258.2 6816265.1 6816265.1 6816264.2 6816270.2 6816243.3 6816243.3	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 4.4 16.2
Generate EXCAV LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R ck ck ck ck ck ck	\$53643.9 553406.4 553634.2 553327.9 553299.7 553252.2 553351.6 553328.4 553292.2 553288.8 553290.4 553291.3 553299.1 553315.2	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816258.2 6816265.2 6816265.3 68162670.2 6816264.2 6816270.2 6816243.3 6816243.3	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2
Generate EXCAV LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R ck ck ck ck ck ck ck	\$53643.9 553406.4 553634.2 553327.9 553299.7 553277.6 553252.2 553376.6 553328.4 553328.4 553292.2 553292.2 553288.8 553290.4 553291.3 553299.1 553315.2 553332	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816261.8 6816265.1 6816262.2 6816264.2 6816250.7 6816243.3 6816243.3	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1
Generate EXCAV LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R ck ck ck ck ck ck ck	\$53643.9 553406.4 553634.2 553327.9 553299.7 553252.2 553351.6 553328.4 553292.2 553288.8 553290.4 553291.3 553299.1 553315.2	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816258.2 6816265.2 6816265.3 68162670.2 6816264.2 6816270.2 6816243.3 6816243.3	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1
Generate EXCAV LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R ck ck ck ck ck ck ck ck	553643.9 553406.4 553634.2 553327.9 553297.7 553277.6 553252.2 553376.6 553328.4 553306.7 553292.2 553288.8 553290.4 553291.3 553299.1 553315.2 553349.6	6815944.2 6816251.5 6815963.6 6816183.2 6816129.6 6816224.6 6816256.2 6816256.2 6816260.2 6816260.2 6816260.3 6816240.3 6816243.3 6816243.3 6816244.3	1 1 2.2.5 2.	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1
Generate EXCAV LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R ck ck ck ck ck ck ck ck ck	553643.9 553406.4 553634.2 553327.9 553297.7 553277.6 553351.6 553351.6 553328.4 553392.2 553292.2 553288.8 553290.4 553291.3 553299.1 553315.2 553332 553349.6 553363	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816256.2 6816256.2 6816262.6 6816262.6 6816263.3 6816243.3 6816243.3 6816243.3 6816243.4 6816244.3	1 1 2.2.5 2.	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1
Generate EXCAV LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R R ck ck ck ck ck ck ck ck ck	\$53643.9 553406.4 553634.2 553327.9 553299.7 553252.2 553376.6 553351.6 553328.4 553292.2 553292.2 553290.4 553291.3 553299.1 553315.2 553349.6 553363 553378 553400 553423.4	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816256.2 6816256.2 6816258.2 6816261.3 6816263.3 6816263.3 6816243.3 6816243.3 6816244.3 6816244.3 6816244.6 6816244.3	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16 12.7 16.4 16.3 7.9
Generate EXCAV LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R R ck	\$53643.9 553406.4 553634.2 553327.9 553299.7 553252.2 553376.6 553328.4 553392.2 553290.4 553291.3 553299.1 553315.2 553349.6 553334 553349.6 553378 553400 553423.4 553448.3	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816256.2 6816258.2 6816258.2 6816263.2 6816263.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16 12.7 16.4 16.3 7.9 16.1
Generate EXCAV LOADE LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R R ck	\$53643.9 \$53406.4 \$53634.2 \$53327.9 \$53299.7 \$53277.6 \$53252.2 \$53376.6 \$53328.4 \$53306.7 \$53292.2 \$53290.4 \$53291.3 \$53299.1 \$53315.2 \$53349.6 \$53349.6 \$53349.6 \$53349.6 \$53349.6 \$53349.6 \$53349.6 \$53349.6 \$53349.6 \$53349.6 \$53349.6 \$53349.6 \$53349.6 \$53349.6 \$53349.6 \$53349.6 \$53349.6	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816258.2 6816258.2 6816263.2 6816263.2 6816264.2 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16.1
Generate EXCAV LOADE LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R R ck	\$53643.9 \$53406.4 \$53634.2 \$53327.9 \$53297.6 \$53252.2 \$53376.6 \$53328.4 \$53329.4 \$53290.4 \$53290.4 \$53291.3 \$53299.1 \$53315.2 \$53349.6 \$53363 \$53378 \$53400 \$53423.4 \$53448.3 \$53474.9 \$53503.4	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816258.2 6816258.2 6816265.1 6816264.2 6816263.3 6816243.3 6816243.3 6816244.3 6816244.3 6816244.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16.1 16.2 16.1 16.1 16.1
Generate EXCAV LOADE LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R ck	553643.9 553406.4 553634.2 553327.9 553297.6 553252.2 553376.6 553328.4 553328.4 553290.4 553290.4 553291.3 553299.1 553315.2 553363 553378 553448.3 553448.3 553474.9 553503.4 553503.4	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816256.2 6816256.2 6816262.6 681626.3 6816264.3 6816243.3 6816243.3 6816244.3 6816244.3 6816244.3 6816242.9 6816241.9 6816241.9 6816241.9 6816240.7 6816239.5 6816239.5	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16.1 16.2 16.1 16.1 16.3 7.9 16.1 16.1 16.1
Generate EXCAV LOADE LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R R ck	553643.9 553406.4 553634.2 553327.9 553297.7 553252.2 553376.6 553351.6 553292.2 553288.8 553290.4 553291.3 553291.3 553299.1 553315.2 553363 553378 553400 553423.4 553474.9 553503.4 553503.4 553503.4	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816256.2 6816256.2 6816262.6 6816262.6 6816262.3 6816263.3 6816243.3 6816243.3 6816244.3 6816244.3 6816242.3 6816242.3 6816242.3 6816242.3 6816242.3 6816242.3 6816242.3 6816242.3 6816242.3 6816242.3	1 1 2.2.5 2.	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16.1 16.2 16.1 16.1 16.3 7.9 16.1 16.1 16.1
Generate EXCAV LOADE LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R R R R R R R R R R R R R R	\$53643.9 \$53406.4 \$53634.2 \$53327.9 \$53297.7 \$53252.2 \$53376.6 \$53351.6 \$53328.4 \$53306.7 \$53292.2 \$53299.1 \$53299.1 \$53393.2 \$53349.6 \$53343.4 \$53474.9 \$535343.4 \$53520.3 \$53520.3 \$535343.9 \$535343.9 \$535343.9 \$535343.9 \$53536.5	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816256.2 6816256.2 6816262.6 6816262.6 6816262.6 6816263.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3	1 1 2.2.5 2.2.5 2.2.5 2.2.5 2.2.5 2.2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16.1 16.2 16.1 16.1 16.3 7.9 16.1 16.1 16.1
Generate EXCAV LOADE LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R R R R R R R R R R R R R R	553643.9 553406.4 553634.2 553327.9 553297.7 553252.2 553376.6 553351.6 553292.2 553288.8 553290.4 553291.3 553291.3 553299.1 553315.2 553363 553378 553400 553423.4 553474.9 553503.4 553503.4 553503.4	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816224.6 6816256.2 6816256.2 6816262.6 6816262.6 6816262.3 6816263.3 6816243.3 6816243.3 6816244.3 6816244.3 6816242.3 6816242.3 6816242.3 6816242.3 6816242.3 6816242.3 6816242.3 6816242.3 6816242.3 6816242.3	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16.1 16.2 16.1 16.1 16.3 7.9 16.1 16.1 16.1
Generate EXCAV LOADE LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R R R R R R R R R R R R R R	\$53643.9 \$53406.4 \$53634.2 \$53327.9 \$53297.7 \$53252.2 \$53376.6 \$53351.6 \$53328.4 \$53306.7 \$53292.2 \$53299.1 \$53291.3 \$53299.1 \$53399.1 \$53315.2 \$53349.6 \$53363 \$53400 \$53448.3 \$53448.3 \$53448.3 \$535303.4 \$5353503.4 \$5353503.8	6815944.2 6816251.5 6815963.6 6816183.2 6816199.6 6816256.2 6816256.2 6816256.2 6816262.6 6816262.6 6816262.6 6816263.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.9 6816243.9 6816240.7 6816239.5 6816239.5 6816239.5 6816239.5 6816230.4	1 1 2.2.5 2.2.5 2.2.5 2.2.5 2.2.5 2.2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16.1 16.3 7.9 16.1 16.1 16.1 16.1
Generate EXCAV LOADE LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R R R R R R R R R R R R R R	\$53643.9 \$53406.4 \$53634.2 \$53327.9 \$53299.7 \$53252.2 \$53376.6 \$53351.6 \$53328.4 \$53306.7 \$53292.2 \$53290.4 \$53291.3 \$53299.1 \$53299.1 \$53363 \$53378 \$53400 \$5343.4 \$53448.3 \$53448.3 \$53448.3 \$53503.4 \$53503.4 \$53503.8 \$535686.7	6815944.2 6816251.5 681693.6 6816183.2 6816199.6 6816256.2 6816258.2 6816258.2 6816261.3 6816263.3 6816263.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.4 6816244.6 6816244.6 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4 6816230.4	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16.3 7.9 16.4 16.3 7.9 16.1 16.1 16.1
Generate EXCAV LOADE LOADE LOADE LOADE Road tru	ATOR or ATOR R R R R R R R R R R R R R R R R R R	\$53643.9 \$53406.4 \$53634.2 \$53327.9 \$53299.7 \$53252.2 \$53376.6 \$53351.6 \$53328.4 \$53306.7 \$53292.2 \$53290.4 \$53291.3 \$53299.1 \$53315.2 \$53349.6 \$53363 \$53378 \$53400 \$53448.3 \$53474.9 \$53503.4 \$53503.4 \$53503.4 \$53503.4 \$53503.8 \$5366.7 \$53746.3	6815944.2 6816251.5 681693.6 6816183.2 6816199.6 6816256.2 6816258.2 6816258.2 6816261.8 6816261.8 6816261.8 6816261.8 6816263.3 6816243.3 6816243.3 6816243.3 6816243.9 6816243.9 6816240.7 6816239.5 6816239.5 6816230.4 6816230.4 6816230.4 6816230.4 6816231.5	1 1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	19.8 19.7 20 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16.1 16.3 7.9 16.1 16.1 16.3 7.9 16.1 16.1 16.1



HAIII	TRUCK	553464.8	6816196.3	2.5		14.4
	TRUCK	553433.1				14.5
	TRUCK	553403.9				14.6
	TRUCK	553376.9				14.7
	TRUCK	553351.8		The second second		14.8
	TRUCK	553328.3				14.9
	TRUCK	553306.4		2.5		15
	TRUCK					
		553285.9				15
	TRUCK	553266.6				15.1
	TRUCK	553254.1	6816235.8			10.7
There's discussion	TRUCK		6816171.7			13.1
	TRUCK	553490.6				13.1
	TRUCK	553503.8				13
	TRUCK	553517.8		2.5		12.9
HAUL	TRUCK	553532.9	6816061.6	2,5		12.8
	TRUCK	553549.2	6816028.9	2.5		12.8
HAUL'	TRUCK	553566.7	6815993.6	2.5		12.7
HAUL '	TRUCK	553585.7	6815955.3	2.5		12.6
HAUL'	TRUCK	553599.7	6815927.1	2.5		8.3
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
R6B	552715.7	6816554.2	1.8	10.6		33.3
Source	X Posn	Y Posn	Height		Noise Lev	el
	(m)	(m)	(m)		(dB(A))	
EXCAV	. ,	553643.9	6815944.2	2.5	((/)	18.6
Generat		553406.4				18.3
EXCAV			6815963.6			18.8
LOADE		553324.1				25.5
LOADE		553285.4				23.1
7		553265.6				23.1
LOADE			6816239.6			
LOADE		553250	6816258.9			21.6
Road tru		553367.1	6816259.6			18.1
Road tru		553325.5	6816265.5			18.2
Road tru	ıck	553297.1	6816269.5			15.4
Road tru	ick	553288.8	6816264.2	2.5		14.1
Road tru	ick	553290.4	6816250.6	2.5		14.1
Road tru	ıck	553291.3	6816243.3	2.5		2.4
Road tru	ick	553303.1	6816243	2.5		16.2
Road tru	ick	553327.7	6816243.5	2.5		16.1
Road tru		553353.8	6816244.1			16
Road tr		553383.9				16.6
Road tru		553419.2		2.5		16.4
Road tru		553457.8				16.3
Road tru			6816238.4			16.1
						17.4
Road tru		553557.8				
Road tr		553633.7	6816230.4			17.2
Road tru			6816218.5			16.9
Road tru		553787.5	6816209.9			10.5
Road tru		553819.1	6816191.6			13
Road tru		553843.8	6816169.6			7.3
HAUL		553453.8	6816198.4			15.2
HAUL		553403.1	6816207.9			15,4
HAUL		553358.3	6816216.3			15.6
HAUL	TRUCK	553318.2	6816223.8	2.5		15.7
HAULT	TRUCK	553282.2	6816230.6	2.5		15.8
HAUL 7	FRUCK	553258.2	6816235.1	2.5		12.5
HAULT	TRUCK	553477.8	6816172.6	2.5		11.4
HAUL 1	TRUCK	553489.1	6816149.9	2.5		11.4
HAUL	FRUCK	553500.9	6816126.1			11.3
HAUL		553513.3	6816101.1	2.5		11.2
HAUL		553526.4	6816074.8			11.2
HAULT		553540.2		2.5		11.1
HAUL		553554.8	6816017.6			11
HAUL			6815986.5			11
						10.9
HAULT			6815953.4			7.6
HAULT			6815927.7			
HAULT		553290.2	6816229.1			13.2
HAUL		553273	6816232.3			13.3
HAUL			6816235.2			12.6
HAULT			6816176.1			10.2
HAULT			6816161.5			10.2
HAULT	TRUCK	553461.5	6816147.2	2.5		10.3



HAUL TRUCK	553457.3	6816133.2 2.5	10.3
HAUL TRUCK	553453.1	6816119.4 2.5	10.3
HAUL TRUCK	553449.1	6816105.9 2.5	10.3
HAUL TRUCK	553445.1	6816092.6 2.5	10.3
HAUL TRUCK	553441.2	6816079.6 2.5	10.3
HAUL TRUCK	553437.4	6816066.8 2.5	10.3
HAUL TRUCK	553433.6	6816054.1 2.5	10.4
HAUL TRUCK	553429.8	6816041.7 2.5	10.4
HAUL TRUCK	553426.2	6816029.4 2.5	10.4
HAUL TRUCK	553422.5	6816017.3 2.5	10.4
HAUL TRUCK	553418.9	6816005.4 2.5	10.4
HAUL TRUCK	553415.4	6815993.5 2.5	10.4
HAUL TRUCK	553411.9	6815981.9 2.5	10.4
HAUL TRUCK	553408.4	6815970.3 2.5	10.4
HAUL TRUCK	553405	6815958.9 2.5	10.4
HAUL TRUCK	553401.6	6815947.6 2.5	10.4
HAUL TRUCK	553398.2	6815936.3 2.5	10.4
HAUL TRUCK	553394.9	6815925.2 2.5	10.4
HAUL TRUCK	553391.6	6815914.1 2.5	10.4
HAUL TRUCK	553389.4	6815906.8 2.5	5.8
EXCAVATOR	553286.9	6815896.8 2.5	32.1

SOUTHWEST CORNER

 $File: Z: \CRG\ ACOUSTICS \land ACOUSTIC\ JOBS \land 10453a\ Sandmine\ Lennox\ Head \land 10453a\ Sandmine\ april\ 2012\ se. PEN$ File Description:Data file covering souteast

Tuesday 05 Mar, 2013 at 12:05:18

Environmental Calculations

All point and line sources included. Line source segmentation angle: 1 degrees. Calculations for specified meteorology.

Noise level results are the logarithmic addition of all the noise sources

Noise level results incorporate the incoherent ground reflection algorithm

Meteorology

Wind speed 0.0 (m/s) Wind direction 0 Mast height 10.0 (m)

Temperature 20.0 (C) Temperature Gradient 0.0 (C/100m) Humidity 50.0 (%)

Surface Roughness of terrain 0.023000000 (m) Zero plane offset 0.080000000 (m)

Percentagy V Poor V Poor Height Ground Name Algie Level

Receptor	X Posn	Y Posn	Height	Ground		Noise Le	evel
	(m)	(m)	(m)	(m)		(dB(A))	
R1	553772.1	6815867.2	1.8	3		38	
Source	X Posn	Y Posn	Height		Noise Lev	el	
	(m)	(m)	(m)		(dB(A))		
EXCAV	'ATOR	553218.8	6815913.5	2.5		27.4	
Generate	or	553406.4	6816251.5	1		22.1	
EXCAV	'ATOR	553196.1	6815961.7	2.5		27	
LOADE	R	553327.3	6816183.5	2.5		23	
LOADE	R	553284.2	6816216.4	2.5		20.1	
LOADE	R	553258.3	6816248.7	2.5		21.3	
Road tru	ıck	553382	6816257.5	2.5		16.9	
Road tru	ick	553365.8	6816259.8	2.5		16.8	
Road tru	ick	553348.8	6816262.2	2.5		16.8	
Road tru	ick	553330.8	6816264.7	2.5		16.7	
Road tru	ick	553312	6816267.4	2.5		16.7	
Road tru	ick	553295.1	6816269.8	2.5		9.7	
Road tru	ick	553288.9	6816262.9			10.1	
Road tru	ck	553290.6	6816248.9	2.5		9.2	
Road tru	ck	553299.7	6816243	2.5		10.6	
Road tru	ick	553315.9	6816243.3	2.5		10.7	
Road tru	ick	553331.4	6816243.6	2.5		10.7	
Road tru	ck	553346.3	6816243.9	2.5		16.2	
Road tru	ck		6816244.2			16.2	
Road tru	ck		6816244	2.5		16.6	
Road tru	ck	553389.1	6816243.4	2.5		16.6	
Road tru	ck	553402.8	6816242.8	2.5		16.7	
Road tru	ck	553416.1	6816242.2	2.5		16.7	
Road tru	ck	553428.8	6816241.6	2.5		16.8	
Road tru	ck	553441.2	6816241	2.5		16.8	
Road tru	ck	553453.1	6816240.5	2.5		16.8	
Road tru	ck	553464.6	6816240	2.5		16.9	
Road tru	ck	553475.8	6816239.5	2.5		16.9	
Road tru	ck	553486.6	6816239	2.5		16.9	
Road tru	ck	553497.2	6816238.5	2.5		16.9	
Road tru	ck	553507.4	6816238.1	2.5		17	
Road tru	ck		6816237.6			17	
Road tru	ck		6816237.4			-10.8	
Road tru	ck	553529.2	6816244.4	2.5		17.2	



Road truck	553539.3	6816243.1 2.5	17.3
Road truck	553549	6816241.8 2.5	17.3
Road truck	553558.5		
			17.4
Road truck	553567.7		17.4
Road truck	553576.8		17.4
Road truck	553585.5	6816236.9 2.5	17.4
Road truck	553594.1	6816235.7 2.5	17.4
Road truck	553602.5	6816234.6 2.5	17.4
Road truck	553610.7		17.5
Road truck	553618.7		17.5
Road truck		6816231.4 2.5	17.5
Road truck	553634.3		17.5
Road truck	553641.9		17.5
Road truck	553649.3	6816228.4 2.5	17.5
Road truck	553656.6	6816227.4 2.5	17.5
Road truck	553663.8	6816226.4 2.5	17.5
Road truck	553670.9		17.5
Road truck	553677.8		17.6
Road truck	553684.7		17.6
Road truck	553691.5		17.6
Road truck	553698.2	6816221.8 2.5	17.6
Road truck	553704.8	6816220.9 2.5	17.6
Road truck	553711.3	6816220.1 2.5	17.6
Road truck	553717.8		17.6
Road truck	553724.1		17.6
	553730.5		
Road truck			17.7
Road truck	553736.7		17.7
Road truck	553743	6816215.8 2.5	17.7
Road truck	553749.1	6816215 2.5	17.7
Road truck	553755.3	6816214.2 2.5	17.7
Road truck		6816213.4 2.5	17.7
Road truck	553767.4		17.7
Road truck	553773.5		17.7
Road truck	553779.4	6816211 2.5	17.7
Road truck	553785.4	6816210.2 2.5	17.7
Road truck	553791.4	6816209.4 2.5	17.8
Road truck	553797.3	6816208.6 2.5	17.8
Road truck	553800.4		3.1
Road truck		6816205.7 2.5	18.7
Road truck	553808.7	6816200.8 2.5	18.8
Road truck	553814	6816196.1 2.5	18.8
Road truck	553819.2	6816191.5 2.5	18.8
Road truck	553824.2	6816187 2.5	18.8
Road truck	553829.2	6816182.6 2.5	18.8
Road truck	553834	6816178.3 2.5	18.9
Road truck	553838.8	6816174 2.5	18.9
Road truck	553843.4	6816169.9 2.5	18.9
Road truck	553847.4	6816166.3 2.5	17.7
HAUL TRUCK	553475.4	6816194.3 2.5	15.8
HAUL TRUCK	553462.6	6816196.7 2.5	15.8
HAUL TRUCK	553449.1	6816199.3 2.5	15.7
HAUL TRUCK	553435	6816201.9 2.5	15.7
HAUL TRUCK			
	553420.1	6816204.7 2.5	15.6
HAUL TRUCK	553404.4	6816207.7 2.5	15.6
HAUL TRUCK	553387.8		15.6
HAUL TRUCK	553370.2	6816214.1 2.5	15.5
HAUL TRUCK	553351.5	6816217.6 2.5	11
HAUL TRUCK	553331.6	6816221.3 2.5	10.9
HAUL TRUCK	553310.4	6816225.3 2.5	10.8
HAUL TRUCK			
	553287.7	6816229.5 2.5	10.8
HAUL TRUCK	553263.6	6816234.1 2.5	9
HAUL TRUCK	553469.7	6816180.9 2.5	13.7
HAUL TRUCK	553464.2	6816175.6 2.5	13.7
HAUL TRUCK	553458.7	6816170.3 2.5	13.7
HAUL TRUCK	553453.3	6816165 2.5	13.7
HAUL TRUCK	553447.8	6816159.7 2.5	13.7
HAUL TRUCK	553442.3	6816154.3 2.5	
			13.7
HAUL TRUCK	553436.8	6816149 2.5	8.6
HAUL TRUCK	553431.3	6816143.6 2.5	8.6
HAUL TRUCK	553425.8	6816138.2 2.5	8.5
HAUL TRUCK	553420.2	6816132.8 2.5	8.6
HAUL TRUCK	553414.6	6816127.4 2.5	7.3
HAUL TRUCK	553409	6816121.9 2.5	6
ob incon	JJJTUJ	0010121.7 2.3	1,960



ELATII *	TRUCK	552402.2	6816116.4	25		6.6
	TRUCK	553397.6	6816110.9			7.4
	TRUCK		6816105.3			7.4
	TRUCK	553386	6816099.6			7.7
	TRUCK	553380.1	6816093.9			8.
	TRUCK	553374.2				8.1
HAUL	TRUCK	553368.2	6816082.4	2.5		8.3
	TRUCK	553362.2	6816076.5	2.5		8.2
HAUL	TRUCK	553356.1	6816070.5	2.5		8.1
HAUL		553349.9	6816064.5	2.5		8
HAUL 1			6816058.4			7.8
HAUL		553337.2	6816052.2			7.8
HAUL			6816045.9			7.8
						7.8
HAUL		553324.2	6816039.6			1000
HAUL		553317.5				7.8
HAUL		553310.7	6816026.5			7.8
HAUL			6816019.8			7.7
HAUL		553296.8	6816012.9	2.5		7.7
HAULT	TRUCK	553289.6	6816006	2.5		7.7
HAUL 1	FRUCK	553282.3	6815998.9	2.5		7.7
HAUL 7	TRUCK	553274.8	6815991.6	2.5		7.7
HAUL 7		553267.2	6815984.2	2.5		7.7
HAUL		553259.4	6815976.6			7.7
HAULT			6815968.9			7.7
						7.7
HAULT		553243.2	6815960.9			
HAULT			6815952.7			7.7
HAULT		553226.2	6815944.4			7.7
HAUL 1			6815935.8			7.7
HAULT	TRUCK	553209	6815927.7	2.5		6.9
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
R2A	553848.7	6815742.3	1.8	3.8		35.9
Source	X Posn	Y Posn	Height		Noise Leve	
Source	(m)	(m)	(m)		(dB(A))	,1
		(111)	, ,			
FYCAV	ATOR	553218 8	6815013 5	2.5		312
EXCAV		553218.8	6815913.5			31.2
Generato	or	553406.4	6816251.5	1		19.9
Generate EXCAV	or ATOR	553406.4 553196.1	6816251.5 6815961.7	1 2.5		19.9 26.2
Generato EXCAV LOADE	or ATOR R	553406.4 553196.1 553326.9	6816251.5 6815961.7 6816183.8	1 2.5 2.5	8	19.9 26.2 22.9
Generato EXCAV LOADE LOADE	or ATOR R R	553406.4 553196.1 553326.9 553275.4	6816251.5 6815961.7 6816183.8 6816227.4	1 2.5 2.5 2.5	5	19.9 26.2 22.9 22.1
Generato EXCAV LOADE	or ATOR R R	553406.4 553196.1 553326.9	6816251.5 6815961.7 6816183.8 6816227.4	1 2.5 2.5 2.5	5	19.9 26.2 22.9
Generato EXCAV LOADE LOADE	or ATOR R R R	553406.4 553196.1 553326.9 553275.4	6816251.5 6815961.7 6816183.8 6816227.4	1 2.5 2.5 2.5 2.5 2.5	8	19.9 26.2 22.9 22.1
Generate EXCAV LOADE LOADE LOADE	or ATOR R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9	1 2.5 2.5 2.5 2.5 2.5 2.5	B	19.9 26.2 22.9 22.1 14.8
Generato EXCAV LOADE LOADE LOADE Road tru	or ATOR R R R ck ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5	8	19.9 26.2 22.9 22.1 14.8
Generate EXCAV LOADE LOADE LOADE Road tru Road tru Road tru	or ATOR R R R ck ck ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5
Generate EXCAV LOADE LOADE Road tru Road tru Road tru Road tru Road tru Road tru	or ATOR R R R ck ck ck ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553320.2	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.2	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.9
Generate EXCAV LOADE LOADE LOADE Road tru	or ATOR R R R ck ck ck ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553320.2 553298.8	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.2 6816269.3	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.9
Generate EXCAV LOADE LOADE LOADE Road tru	or ATOR R R R ck ck ck ck ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553320.2 553298.8 553289.2	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.2 6816269.3 6816260.5	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19,9 26.2 22,9 22.1 14.8 8.9 9.5 9.9 9.7 9.6
Generate EXCAV LOADE LOADE LOADE Road tru	or ATOR R R R ck ck ck ck ck ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553320.2 553298.8 553289.2 553290.9	6816251.5 6815961.7 6816183.8 6816227.4 6816257.7 6816260.9 6816257.7 6816260.3 6816266.2 6816266.5 6816266.5	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19,9 26.2 22,9 22.1 14.8 8.9 9.5 9.9 9.7 9.6 5.4
Generate EXCAV LOADE LOADE LOADE Road tru	or ATOR R R R c ck ck ck ck ck ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553361.2 553298.8 553298.8 553290.9 553300.8	6816251.5 6815961.7 6816183.8 6816227.4 6816257.7 6816260.9 6816263.3 6816266.2 6816269.3 6816246.6 6816243	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.9 9.7 9.6 5.4 9.5
Generate EXCAV LOADE LOADE LOADE Road tru	or ATOR R R R R ck ck ck ck ck ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553292.8 553290.9 553290.9 553300.8 553319.3	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.3 6816269.3 6816243.4	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.5 9.7 9.6 5.4 9.5 9.5
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R ck ck ck ck ck ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553320.2 553298.8 553289.2 553290.9 553300.8 553319.3 553337.1	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816260.5 6816260.5 6816243.4 6816243.4	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.7 9.6 5.4 9.5 9.5 9.5
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R ck ck ck ck ck ck ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553320.2 553298.8 553299.9 553300.8 553319.3 55337.1 553354.3	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.5 6816264.6 6816243.4 6816243.4 6816243.4	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.9 9.7 9.6 5.4 9.5 9.5 9.5 9.5
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R ck ck ck ck ck ck ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553320.2 553298.8 553298.9 553290.9 553300.8 553319.3 55337.1 553354.3 553365	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.3 6816260.5 6816244.6 6816243.4 6816243.7 6816244.1	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.9 9.7 9.6 5.4 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R ck ck ck ck ck ck ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553320.2 553298.8 553299.9 553300.8 553319.3 55337.1 553354.3	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.5 6816264.6 6816243.4 6816243.4 6816243.4	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.7 9.6 5.4 9.5 9.5 9.5 9.5 9.5 9.1 3.4 8.7
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R ck ck ck ck ck ck ck ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553320.2 553298.8 553298.9 553290.9 553300.8 553319.3 55337.1 553354.3 553365	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.3 6816260.5 6816244.6 6816243.4 6816243.7 6816244.1	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.9 9.7 9.6 5.4 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553298.8 553298.8 553299.9 553300.8 553319.3 553354.3 553354.3 553365 553376.1	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.3 6816260.5 6816243.4 6816243.4 6816243.4 6816244.1 6816244.1	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.7 9.6 5.4 9.5 9.5 9.5 9.5 9.5 9.1 3.4 8.7
Generate EXCAV LOADE LOADE LOADE Road tru	or ATOR R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553298.8 553290.9 553290.9 553300.8 553319.3 553354.3 553354.3 553365 553376.1 553393.1 553409.4	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.2 6816243.6 6816243.4 6816243.4 6816244.1 6816244.1 6816244.3 6816244.3	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8 8.9 9.5 9.9 9.7 9.6 5.4 9.5 9.5 9.5 9.5 9.5 9.5 9.7
Generate EXCAV LOADE LOADE LOADE Road tru	or ATOR R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553298.8 553290.9 553300.8 553319.3 553354.3 553354.3 55336.5 553376.1 553409.4 553409.4	6816251.5 6815961.7 6816183.8 6816227.4 6816257.7 6816260.4 6816263.3 6816266.2 6816269.3 6816240.5 6816243.4 6816243.4 6816244.3 6816244.4 6816244.3 6816244.3 6816244.3 6816244.3	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8 8.9 9.5 9.9 9.7 9.6 5.4 9.5 9.5 9.5 9.5 9.5 9.5 9.7 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 10
Generate EXCAV LOADE LOADE LOADE Road tru	or ATOR R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553320.2 553298.8 553290.9 553290.9 553300.8 553371.1 553354.3 553365 553376.1 553393.1 553409.4 553425.3 553440.6	6816251.5 6815961.7 6816183.8 6816227.4 6816257.7 6816260.4 6816263.3 6816266.2 6816269.3 6816243.4 6816243.7 6816244.1 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8 8.9 9.5 9.5 9.5 9.5 9.5 9.5 10 14.9 14.9
Generate EXCAV LOADE LOADE LOADE Road true Roa	or ATOR R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553361.2 553298.8 553290.9 553290.9 553393.1 553354.3 553365 553376.1 553393.1 553409.4 553425.3 553440.6 553455.5	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.3 6816263.3 6816266.2 6816243.4 6816243.4 6816244.1 6816244.2 6816244.2 6816243.2 6816244.3 6816244.1 6816244.3 6816243.2 6816243.2	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.5 9.5 9.5 9.5 9.5 13.4 8.7 7.7 10 14.9 14.9
Generate EXCAV LOADE LOADE LOADE Road true Roa	or ATOR R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553290.9 553290.9 553290.8 553376.1 553354.3 553365 553376.1 553393.1 553409.4 553425.3 553440.6 553455.5 553469.9	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.3 6816263.3 6816266.2 6816243.4 6816243.4 6816244.1 6816244.2 6816244.2 6816243.2 6816244.3 6816244.4 6816243.2 6816240.4 6816243.2	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.5 9.5 9.5 9.5 9.5 9.1 3.4 8.7 7.7 10 14.9 14.9 15
Generate EXCAV LOADE: LOADE: LOADE: Road tru	or ATOR R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553290.9 553290.9 553300.8 553376.1 553354.3 553365 553376.1 553409.4 553425.3 553440.6 553455.5 553469.9 553483.9	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.3 6816263.3 6816266.2 6816243.4 6816243.4 6816243.4 6816243.4 6816244.1 6816244.2 6816245.5 6816240.4 6816243.3 6816243.3 6816244.1 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.5 9.5 9.5 9.5 9.1 3.4 8.7 7.7 10 14.9 14.9 15 15
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553290.9 553290.9 553300.8 553376.1 553354.3 553365 553376.1 553409.4 553425.3 553440.6 553455.5 553469.9 553483.9 553497.5	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.3 6816266.3 6816266.3 6816240.4 6816243.4 6816243.4 6816244.1 6816244.2 6816244.2 6816242.5 6816241.1 6816241.8 6816241.8 6816241.8 6816241.8 6816243.9 6816239.7 6816239.1	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.5 9.6 5.4 9.5 9.5 9.1 3.4 8.7 7.7 10 14.9 14.9 15 15 6.9
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553320.2 553290.9 553290.9 553300.8 553376.1 553354.3 553365 553376.1 553409.4 55345.5 553469.9 553483.9 553497.5 553510.7	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.2 6816243.6 6816243.4 6816243.4 6816243.2 6816244.1 6816244.1 6816241.8 6816241.8 6816240.4 6816240.4 6816239.7 6816239.7	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8.9 9.5 9.5 9.5 9.5 9.5 9.1 3.4 8.7 7.7 10 14.9 14.9 14.9 15 15
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553298.8 553299.9 553300.8 553319.3 553376.1 553354.3 553365 553376.1 553409.4 553425.3 553440.6 553455.5 553469.9 553497.5 553510.7 553519.8	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.2 6816243.2 6816243.4 6816243.2 6816243.2 6816244.1 6816244.1 6816244.2 6816243.2 6816243.2 6816243.2 6816243.2 6816240.4 6816239.7 6816239.7 6816239.1	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8 8.9 9.5 9.9 9.7 9.6 5.4 9.5 9.5 9.5 9.5 13.4 8.7 7.7 10 14.9 14.9 14.9 15 15 16.9 6.9 2.9
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553298.8 553290.9 553290.9 553300.8 553376.1 553354.3 553365 553376.1 553409.4 553425.3 553440.6 55345.5 553469.9 553497.5 553510.7 553519.8 553530.8	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.2 6816243.4 6816243.4 6816244.1 6816244.1 6816244.1 6816244.1 6816241.8 6816241.8 6816241.8 6816239.7 6816239.7 6816239.1 6816239.1 6816239.7 6816237.5 6816237.5 6816237.5	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8 8.9 9.5 9.9 9.7 9.6 5.4 9.5 9.5 9.5 9.5 9.1 3.4 8.7 7.7 10 14.9 14.9 15 15 6.9 6.9 2.9 7.1
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553290.9 553290.9 553290.9 553300.8 553376.1 553354.3 553365 553376.1 553490.4 55345.5 553469.9 553469.9 553469.9 553469.9 553469.9 553469.9 553469.9	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.3 6816263.3 6816266.2 6816243.4 6816244.3 6816244.3 6816244.1 6816244.1 6816244.1 6816242.5 6816249.8 6816241.8 6816241.8 6816241.8 6816239.7 6816239.7 6816239.7 6816237.9 6816237.5 6816242.4	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8 8.9 9.5 9.5 9.5 9.5 9.5 9.1 3.4 8.7 7.7 10 14.9 14.9 14.9 15 15 15 66.9 6.9 2.9 7.1
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553290.9 553290.9 553290.9 553300.8 553376.1 553354.3 553365 553376.1 553490.4 55345.5 553469.9 553469.9 553469.9 553469.9 553469.9 553469.9 553469.9	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.2 6816243.4 6816243.4 6816244.1 6816244.1 6816244.1 6816244.1 6816241.8 6816241.8 6816241.8 6816239.7 6816239.7 6816239.1 6816239.1 6816239.7 6816237.5 6816237.5 6816237.5	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8 8.9 9.5 9.9 9.7 9.6 5.4 9.5 9.5 9.5 9.5 9.1 3.4 8.7 7.7 10 14.9 14.9 15 15 6.9 6.9 2.9 7.1
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553290.9 553290.9 553290.9 553300.8 553376.1 553354.3 553376.1 553409.4 55345.5 553469.9 553440.6 55345.5 553469.9 55345.5 553519.8 55350.8 55350.8	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.3 6816263.3 6816266.2 6816243.4 6816243.4 6816244.3 6816244.1 6816244.1 6816244.3 6816244.3 6816245.5 6816249.3 6816240.4 6816239.7 6816239.7 6816239.1 6816237.9 6816237.9 6816237.9 6816237.5 6816242.4 6816242.4	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8 8.9 9.5 9.5 9.5 9.5 9.5 9.1 3.4 8.7 7.7 10 14.9 14.9 14.9 15 15 15 66.9 6.9 2.9 7.1
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553298.8 553290.9 553290.9 553300.8 553371.1 553354.3 553376.1 553376.1 55349.4 553425.3 553440.6 55345.5 553469.9 553497.5 553510.7 553510.7 553510.8 55356.9 55356.9	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.3 6816263.3 6816266.2 6816243.4 6816243.4 6816244.3 6816244.1 6816244.1 6816244.3 6816244.3 6816245.5 6816249.3 6816240.4 6816239.7 6816239.7 6816239.1 6816237.9 6816237.9 6816237.9 6816237.5 6816242.4 6816242.4	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8 8.9 9.5 9.5 9.5 9.5 9.5 9.1 3.4 8.7 7.7 10 14.9 14.9 14.9 15 15 16 6.9 2.9 7.1 7.5
Generate EXCAV LOADE LOADE Road tru	or ATOR R R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553290.9 553290.9 553290.9 553393.1 553354.3 553365 553376.1 553497.5 553497.5 553510.7 553519.8 55356.9 55356.9 55356.9 55356.9 55356.9 55356.9	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.3 6816263.3 6816263.3 6816243.4 6816243.4 6816243.4 6816244.1 6816244.1 6816244.1 6816240.4 6816239.7 6816237.9 6816237.5 6816244.2 6816247.7 6816237.5 6816244.2 6816237.5 6816244.2 6816247.7 6816237.5 6816244.2 6816247.7 6816237.4	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8 8.9 9.5 9.5 9.5 9.5 9.5 9.1 3.4 8.7 7.7 10 14.9 14.9 14.9 15 15 6.9 2.9 7.1 7.5 7.5
Generate EXCAV LOADE LOADE Road tru Roa	or ATOR R R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553361.2 553290.9 553290.9 553300.8 553376.1 553365 553376.1 553365 553376.1 553409.4 55345.3 553497.5 553407.5 553510.7 553519.8 553550.9 55356.9 55356.9 55356.9 55356.9 55356.9 553593.5	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.2 6816243.4 6816243.4 6816243.4 6816244.1 6816244.1 6816244.2 6816240.4 6816239.7 6816237.5 6816237.5 6816244.2 6816237.5 6816244.2 6816237.5 6816243.4	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8 8.9 9.5 9.5 9.5 9.5 9.5 9.5 9.5 10 14.9 14.9 15 15 15 6.9 2.9 7.1 7.5 7.6 7.5 7.6 7.5 15.5
Generate EXCAV LOADE LOADE Road tru Roa	or ATOR R R R R R ck	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553298.8 553299.9 553300.8 553319.3 553365 553376.1 553354.3 553409.4 553425.3 553440.6 55345.5 553469.9 553483.9 553497.5 553510.7 553510.7 553540.8 553540.1 553569.4 553569.4 553593.5 55360.5	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.2 6816243.4 6816243.4 6816243.4 6816243.2 6816244.1 6816244.1 6816240.4 6816240.4 6816240.4 6816240.4 6816240.4 6816240.4 6816240.4 6816239.7 6816237.9 6816237.9 6816237.9 6816237.4 6816240.4 6816240.4 6816240.4 6816240.4 6816239.1 6816237.5 6816237.6 6816237.4 6816237.4 6816237.4	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8 8.9 9.5 9.5 9.5 9.5 9.5 9.1 3.4 8.7 7.7 10 14.9 14.9 15 15 6.9 6.9 6.9 7.1 7.5 7.5 7.5 7.5 7.5 7.5 7.5 11.1
Generate EXCAV LOADE LOADE Road tru Roa	or ATOR R R R R R c c c c c c c c c c c c c c	553406.4 553196.1 553326.9 553275.4 553248.4 553380.6 553361.3 553341.2 553298.8 553299.9 553300.8 553319.3 553376.1 553354.3 553365 553376.1 553393.1 553440.6 55345.5 553469.9 553497.5 553510.7 553519.8 553549.1 553569.4 553569.4 553593.5 553605 553605 553616.4	6816251.5 6815961.7 6816183.8 6816227.4 6816260.9 6816257.7 6816260.4 6816263.3 6816266.2 6816243.4 6816243.4 6816243.4 6816244.1 6816244.1 6816244.2 6816240.4 6816239.7 6816237.5 6816237.5 6816244.2 6816237.5 6816244.2 6816237.5 6816243.4	1 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		19.9 26.2 22.9 22.1 14.8 8 8.9 9.5 9.5 9.5 9.5 9.5 9.5 9.5 10 14.9 14.9 15 15 15 6.9 2.9 7.1 7.5 7.6 7.5 7.6 7.5 15.5



Road truck	553638.3	6816229.8 2.5	15.6
	553648.9		
Road truck			15.6
Road truck	553659.3	6816227 2.5	15.6
Road truck	553669.4	6816225.7 2.5	15.6
Road truck	553679.5	6816224.3 2.5	15.7
Road truck	553689.3	6816223 2.5	15.7
Road truck			
The state of the s	553698.9		15.7
Road truck	553708.5	6816220.5 2.5	15.7
Road truck	553717.8	6816219.2 2.5	15.7
Road truck	553727	6816218 2.5	15.8
Road truck	553736.1	6816216.8 2.5	15.8
Road truck	553745.1	6816215.6 2.5	15.8
Road truck	553754	6816214.4 2.5	15.8
Road truck	553762.7	6816213.2 2.5	15.8
Road truck	553771.4		15.9
Road truck	553780	6816210.9 2.5	15.9
Road truck	553788.4	6816209.8 2.5	15.9
Road truck	553796.6	6816208.7 2.5	15.6
Road truck	553805	6816204.2 2.5	17.5
Road truck	553813.7	6816196.4 2.5	17.6
Road truck	553822.1	6816188.9 2.5	17.6
Road truck	553830.2	6816181.7 2.5	17.7
Road truck	553838.1	6816174.7 2.5	17.7
Road truck	553845.5	6816168 2.5	17.6
HAUL TRUCK	553473.8	6816194.6 2.5	13.8
HAUL TRUCK	553457.7	6816197.7 2.5	9.3
HAUL TRUCK	553440.9	6816200.8 2.5	9.3
HAUL TRUCK	553423.3	6816204.1 2.5	7.8
HAUL TRUCK	553404.8	6816207.6 2.5	8.4
HAUL TRUCK	553385.5	6816211.2 2.5	8.9
HAUL TRUCK	553365.1	6816215 2.5	9.6
HAUL TRUCK	553343.7	6816219 2.5	9.6
HAUL TRUCK	553321	6816223.3 2.5	9.5
HAUL TRUCK	553297	6816227.8 2.5	9.5
HAUL TRUCK	553271.6	6816232.6 2.5	9.5
HAUL TRUCK	553254.6	6816235.7 2.5	3.8
HAUL TRUCK	553468.8		7.4
HAUL TRUCK	553461.5	6816173 2.5	6.3
HAUL TRUCK	553454.2	6816165.9 2.5	6.2
HAUL TRUCK	553447	6816158.9 2.5	6.8
HAUL TRUCK	553439.7	6816151.8 2.5	7.2
HAUL TRUCK	553432.5	6816144.8 2.5	7.4
HAUL TRUCK	553425.2	6816137.7 2.5	7.4
HAUL TRUCK	553418	6816130.7 2.5	7.4
HAUL TRUCK	553410.7	6816123.6 2.5	7.5
HAUL TRUCK	553403.4	6816116.5 2.5	7.5
HAUL TRUCK	553396	6816109.4 2.5	7.5
HAUL TRUCK	553388.7	6816102.2 2.5	7.5
HAUL TRUCK	553381.3	6816095 2.5	7.5
HAUL TRUCK	553373.8	6816087.8 2.5	7.4
HAUL TRUCK	553366.4	6816080.5 2.5	7.3
HAUL TRUCK	553358.8	6816073.2 2.5	7.1
HAUL TRUCK	553351.2	6816065.8 2.5	6.9
HAUL TRUCK	553343.6	6816058.4 2.5	6.6
HAUL TRUCK	553335.9	6816050.9 2.5	6.6
HAUL TRUCK	553328.1	6816043.4 2.5	6.6
HAUL TRUCK	553320.2	6816035.7 2.5	6.7
HAUL TRUCK	553312.3		6.8
HAUL TRUCK	553304.2	6816020.2 2.5	6.8
HAUL TRUCK	553296.1	6816012.3 2.5	6.8
HAUL TRUCK	553287.9	6816004.3 2.5	6.9
HAUL TRUCK	553279.5	6815996.2 2.5	6.9
HAUL TRUCK	553271.1	6815988 2.5	7.4
HAUL TRUCK	553262.5	6815979.6 2.5	7.4
HAUL TRUCK	553253.8	6815971.1 2.5	7.3
HAUL TRUCK		6815962.5 2.5	7.2
	553244.9		
HAUL TRUCK	553235.9	6815953.8 2.5	7
HAUL TRUCK	553226.7	6815944.9 2.5	6.9
HAUL TRUCK	553217.4	6815935.8 2.5	6.8
HAUL TRUCK	553208.9	6815927.6 2.5	5.5
		1000	



Receptor	X Posn	Y Posn	Height	Ground		Noise Level
•	(m)	(m)	(m)	(m)		(dB(A))
R2B Source	554002.8 X Posn	6815828.9 Y Posn	Height	4	Noise Leve	35.6 d
	(m)	(m)	(m)		(dB(A))	
EXCAV.		553218.8	6815913.5			22.9
Generato		553406.4	6816251.5			18.8
EXCAV. LOADEI		553196.1 553326.8	6815961.7 6816183.8			24.5 25.3
LOADEI		553284.8	6816215.6			22.1
LOADE		553260.9	6816245.4			22
LOADE		553246.1	6816263.9			14.1
Road true		553375.3	6816258.4			16
Road true		553344.6 553311.5	6816262.8 6816267.5			15.9 15.7
Road true		553291	6816270.4			8
Road true	ck	553289.1	6816261.6			12.8
Road true		553290.8	6816247.6			10.2
Road true		553305	6816243.1			14.8
Road true		553331.1 553355.6	6816243.6 6816244.1			14.8 14.9
Road truc		553380.2	6816243.8			15.4
Road truc	ck	553404.8	6816242.7	2.5		15.5
Road truc		553428	6816241.6			15.6
Road truc		553450	6816240.6 6816239.7			15.7
Road true		553470.9 553490.8	6816239.7			15.7 15.8
Road truc		553509.7	6816237.9			15.8
Road truc	k	553520.6			13	8.7
Road truc		553533.9	6816243.8			16.3
Road truc		553552.9	6816241.2			16.5
Road truc Road truc		553570.9 553588	6816238.8 6816236.5			16.5 16.5
Road truc		553604.4	6816234.4			16.6
Road truc	k	553620.1	6816232.3	2.5		16.7
Road true		553635.1	6816230.3			16.7
Road true Road true		553649.4	6816228.3			16.7
Road truc		553663.3 553676.5	6816226.5 6816224.7			16.8 16.8
Road true		553689.3		2.5		12.1
Road truc		553701.7	6816221.4	2.5		16.9
Road truc		553713.6	6816219.8			16.9
Road truc Road truc		553725.1 553736.3	6816218.2 6816216.7			17 17
Road truc		553747.1	6816215.3			17
Road truc		553757.6	6816213.9			17.1
Road truc	k	553767.7	6816212.5	2.5	1	17.1
Road true		553777.6	6816211.2			17.1
Road truc Road truc		553787.3 553796.3	6816209.9 : 6816208.7 :			17.2 16.9
Road truc		553808.4	6816201.1			20.9
Road true	k	553823.2	6816187.9	2.5		21
Road truc			6816175.8			21.1
Road truc HAUL TR			6816167.5 : 6816195.7 :			18.2 15.2
HAULTE			6816201.1			15.1
HAUL TE			6816206.9			5
HAUL TE			6816213.3			4.9
HAUL TE		553337.1	6816220.3			4.9
HAUL TE		553296 553262.6	6816228 2 6816234.3	2.5		1.7
HAUL TR			6816179.6			1.5
HAUL TR			6816171.6			1.5
HAUL TR			6816163.5			1.5
HAUL TR			6816155.4			1.5
HAUL TR			6816147.1 2 6816138.8 2			1.4
HAUL TR			6816130.4 2			1.4
HAULTR				2.5		1,4
HAUL TR			6816113.42			1.4
HAUL TR			6816104.6			1.4
HAUL TR			6816095.8 2 6816086.8 2			1.4
A LANGE CO.	94307 (P					



HAIII '	TRUCK	553363.5	6816077.7	25		6.9
	TRUCK					
		553354	6816068.5			6.8
	TRUCK	553344.3				6.6
	TRUCK	553334.4	6816049.5			4.8
HAUL	TRUCK	553324.4	6816039.8	2.5		5.9
HAUL'	TRUCK	553314.2	6816029.8	2.5		6.5
HAUL'	TRUCK	553303.7	6816019.7	2.5		6.6
	ΓRUCK	553293.1	6816009.4			6.6
	TRUCK	553282.2	6815998.8			6.6
	TRUCK	553271.1		2.5		6,6
	TRUCK	553259.7				6.6
HAUL	ΓRUCK	553248.1	6815965.6	2.5		6.6
HAUL	FRUCK	553236.1	6815954	2.5		6.6
HAUL	TRUCK	553223.8	6815942.1	2.5		4.7
HAUL	TRUCK	553211.4	6815930	2.5		4.6
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
R3	553634.8	6815756.9	1.8	3.6		38.2
Source	X Posn	Y Posn	Height		Noise Leve	
Gouree	(m)	(m)	(m)		(dB(A))	
EVCAN				2.5		25.1
EXCAV		553218.8	6815913.5			35.1
Generate		553406.4	6816251.5			21.4
EXCAV	ATOR	553196.1	6815961.7	2.5		29.4
LOADE	R	553346	6816172.7	2.5		20.4
LOADE	R	553327.3	6816183.6	2.5		20.4
LOADE		553307	6816195.3			20.4
LOADE		553296.1	6816201.6			-1.4
LOADE		553271.8	6816231.8			24.7
Road tru		553384	6816257.2			9.9
Road tru	ick	553372.1	6816258.9	2.5		9.9
Road tru	ick	553359.9	6816260.6	2.5		9.9
Road tru	ck	553347.4	6816262.4	2.5		9.9
Road tru			6816264.2			9.9
Road tru		553321.3				9.9
Road tru		553307.6		2.5		9.9
Road tru		553294.4				9.4
Road tru	ck	553289.4	6816259.2	2.5		12
Road tru	.ck	553291	6816245.4	2.5		5.9
Road tru	ck	553297.6	6816242.9	2.5		9.7
Road tru		553309.8	6816243.2			9.7
Road tru			6816243.4			9.7
		553321.8				
Road tru		553333.5	6816243.7			9.7
Road tru		553345	6816243.9			9.7
Road tru	ck	553356.3	6816244.1	2.5		9.7
Road tru	ck	553364.6	6816244.3	2.5		6.7
Road tru	ck	553373	6816244.1	2.5		9.8
Road tru			6816243.6			9.8
Road tru			6816243.1			9.8
Road tru			6816242.6			9.8
Road tru			6816242.2			9.7
Road tru	ck	553426.5	6816241.7	2.5		9.7
Road tru	ck	553436.7	6816241.2	2.5		10
Road tru	ck	553446.7	6816240.8	2.5		10
Road tru			6816240.3			10
Road tru			6816239.9			10
Road tru			6816239.5			10
Road tru			6816239.1			10
Road tru	ck	553494.4	6816238.6	2.5		10
Road tru	ck	553503.6	6816238.2	2.5		10
Road tru	ck	553512.7	6816237.8	2.5		10
Road tru			6816237.5			7.6
Road tru			6816244.5			9.9
Road tru			6816243.2			9.8
Road tru				2.5		10.2
Road tru-	ck	553555.7	6816240.9	2.5		10.2
Road tru	ck	553564.6	6816239.7	2.5	1	10.3
Road tru	ck		6816238.5		1	10.3
Road tru			6816237.4			10.2
Road tru			6816236.2			10.1
Road tru			6816235.1			10.1
Road tru			6816233.9			10,1
Road tru	ck	553615.9	6816232.8	2.5	1	10.2



Road truck	553624.2	6816231.7 2.5	10.2
Road truck			
	553632.5		10.2
Road truck	553640.8		10
Road truck	553649	6816228.4 2.5	10.1
Road truck	553657.2	6816227.3 2.5	10.2
Road truck	553665.3	6816226.2 2.5	10.3
Road truck	553673.5	6816225.1 2.5	10.3
Road truck	553681.6		10.4
Road truck	553689.7		10.5
Road truck	553697.8		10.5
Road truck	553706	6816220.8 2.5	10.5
Road truck	553714.1	6816219.7 2.5	9.9
Road truck	553722.2	6816218.6 2.5	8.8
Road truck	553730.4	6816217.5 2.5	15.7
Road truck	553738.5		15.7
Road truck	553746.7		15.8
Road truck	553755	6816214.2 2.5	15.8
Road truck	553763.2	6816213.1 2.5	15.8
Road truck	553771.5	6816212 2.5	15.8
Road truck	553779.9	6816210.9 2.5	15.8
Road truck		6816209.8 2.5	15.8
Road truck	553796.5		15.5
Road truck		6816205.2 2.5	16
Road truck	553810.5		16
Road truck	553817	6816193.4 2.5	16
Road truck	553823.5	6816187.6 2.5	16
Road truck	553829.9	6816181.9 2.5	16.1
Road truck		6816176.3 2.5	16.1
Road truck		6816170.7 2.5	
			16.1
Road truck		6816166.3 2.5	13.6
HAUL TRUCK	553477		9
HAUL TRUCK	553467.7	6816195.8 2.5	9
HAUL TRUCK	553458.1	6816197.6 2.5	9
HAUL TRUCK	553448.4		8.7
HAUL TRUCK	553438.4	6816201.3 2.5	8.7
HAUL TRUCK	553428.1	6816203.2 2.5	8.7
HAUL TRUCK	553417.7	6816205.2 2.5	8.7
HAUL TRUCK	553406.9	6816207.2 2.5	8.8
HAUL TRUCK	553395.8	6816209.3 2.5	8.8
HAUL TRUCK	553384.5	6816211.4 2.5	8.8
HAUL TRUCK	553372.8	6816213.6 2.5	8.8
HAUL TRUCK	553360.7		9.2
		6816215.9 2.5	
HAUL TRUCK	553348.3	6816218.2 2.5	9.2
HAUL TRUCK		6816220.6 2.5	9.2
HAUL TRUCK	553322.2	6816223.1 2.5	9.2
HAUL TRUCK	553308.4	6816225.7 2.5	9.2
HAUL TRUCK	553294.2	6816228.3 2.5	9.2
HAUL TRUCK	553279.5	6816231.1 2.5	9.2
HAUL TRUCK	553264.1	6816234 2.5	9.2
HAUL TRUCK	553253.6	6816235.9 2.5	4.4
HAUL TRUCK	553469.3	6816180.5 2.5	8.8
HAUL TRUCK	553463.2	6816174.6 2.5	8.8
HAUL TRUCK	553457.1	6816168.7 2.5	8.6
HAUL TRUCK	553451.1	6816162.9 2.5	8.6
HAUL TRUCK	553445.2	6816157.2 2.5	8.6
HAUL TRUCK	553439.4	6816151.5 2.5	8.7
HAUL TRUCK	553433.7	6816145.9 2.5	8.7
HAUL TRUCK	553428	6816140.4 2.5	8.7
HAUL TRUCK	553422.3	6816134.9 2.5	8.8
HAUL TRUCK	553416.7	6816129.5 2.5	8.8
HAUL TRUCK	553411.2	6816124.1 2.5	8.8
HAUL TRUCK	553405.7	6816118.7 2.5	8.9
HAUL TRUCK	553400.2	6816113.4 2.5	8.9
HAUL TRUCK	553394.8	6816108.2 2.5	8.9
HAUL TRUCK	553389.4	6816102.9 2.5	8.9
HAUL TRUCK	553384.1	6816097.7 2.5	8.9
HAUL TRUCK	553378.7	6816092.6 2.5	8.9
HAUL TRUCK	553373.4	6816087.4 2.5	8.9
HAUL TRUCK	553368.1	6816082.2 2.5	8.9
HAUL TRUCK	553362.8	6816077.1 2.5	8.7
HAUL TRUCK	553357.6	6816072 2.5	8.7
HAUL TRUCK	553352.3	6816066.9 2.5	8.6
HAUL TRUCK	553347.1	6816061.8 2.5	8.4



HAUL	TRUCK	553341.8	6816056.7	7 2.5	8.1
HAUL	TRUCK	553336.6			9.2
	TRUCK	553331.3			
					9.2
HAUL	TRUCK	553326.1	6816041.4	1 2.5	9.2
HAUL	TRUCK	553320.8	6816036.3	3 2.5	9.2
	TRUCK	553315.5			9.1
HAUL	TRUCK	553310.2	6816026	2.5	9.1
HAUL	TRUCK	553304.9	6816020.8	3 2.5	9.1
HAIII	TRUCK	553299.5			9.1
	TRUCK	553294.2	6816010.4		9
HAUL	TRUCK	553288.8	6816005.2	2.5	8.9
HALL	TRUCK	553283.3	6815999.9	2.5	8.9
	TRUCK	553277.9			
					8.9
HAUL	TRUCK	553272.4	6815989.2	2.5	8.9
HAUL'	TRUCK	553266.8	6815983.8	3.2.5	8.9
	TRUCK		6815978.4		8.8
	TRUCK	553255.5	6815972.9	2.5	8.8
HAUL'	TRUCK	553249.8	6815967.3	2.5	8.7
HAIII.	TRUCK	553244	6815961.7	2.5	8.7
	TRUCK	553238.2		2,5	8.6
HAUL	TRUCK	553232.3	6815950.3	2.5	8.5
HAUL	TRUCK	5532263	6815944.4	2.5	8.4
	TRUCK	553220.2			8.3
	TRUCK	553214	6815932.6		13.6
HAUL.	TRUCK	553208	6815926.7	2.5	13.3
		000200	0010/201/		13.3
D -	T/ D	V D	TT 1	0 1	
Receptor	X Posn	Y Posn	Height	Ground	Noise Level
	(m)	(m)	(m)	(m)	$(dB(\Lambda))$
R4A	552797.6	6815469.6	1.8	16.9	35.8
Source	X Posn	Y Posn	Height	Noise Lev	'el
	(m)	(m)	(m)	(dB(A))	
EXCAV	ATOR	553218.8	6815913.5		31.3
Generate			6816251.5		15.8
EXCAV	'ATOR	553196.1	6815961.7	2.5	31
LOADE	R	553348	6816171.5	2.5	16.9
LOADE		553334.5			
			6816179.3		16.9
LOADE	R	553321	6816187.2	2.5	16.9
LOADE	R	553307.5	6816195	2.5	16.9
LOADE		553298.4	6816200.3		
					12.4
LOADE	R	553291	6816208	2.5	17.1
LOADE	R	553280.8	6816220.7	2.5	17.1
LOADE			6816233.6		17.1
LOADE	R	553259.9	6816246.6	2.5	17.1
LOADE	R	553249.3	6816259.8	2.5	17.1
Road tru	ol.	552280.2	6816257.7	2.5	10.7
reduction tru			0010251.1		
Dond to			CO1COCO 4	2.5	
Road tru	ick	553361.1	6816260.4		10.7
Road tru Road tru	ick		6816260.4 6816263.1		
	ick ick	553361.1 553342.4	6816263.1	2.5	10.7 10.8
Road tru Road tru	ick ick ick	553361.1 553342.4 553324	6816263.1 6816265.7	2.5 2.5	10.7 10.8 10.8
Road tru Road tru Road tru	ick ick ick	553361.1 553342.4 553324 553305.9	6816263.1 6816265.7 6816268.3	2.5 2.5 2.5	10.7 10.8 10.8 10.8
Road tru Road tru Road tru Road tru	ek ek ek ek	553361.1 553342.4 553324 553305.9 553292.5	6816263.1 6816265.7 6816268.3 6816270.2	2.5 2.5 2.5 2.5	10.7 10.8 10.8
Road tru Road tru Road tru	ek ek ek ek	553361.1 553342.4 553324 553305.9	6816263.1 6816265.7 6816268.3	2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8
Road tru Road tru Road tru Road tru Road tru	ick ick ick ick ick ick	553361.1 553342.4 553324 553305.9 553292.5 553289.6	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8	2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6
Road tru Road tru Road tru Road tru Road tru Road tru	ick ick ick ick ick ick ick	553361.1 553342.4 553324 553305.9 553292.5 553289.6 553291.2	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244	2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3
Road tru Road tru Road tru Road tru Road tru Road tru Road tru	ick ick ick ick ick ick ick ick	553361.1 553342.4 553324 553305.9 553292.5 553289.6 553291.2 553301	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3
Road tru Road tru Road tru Road tru Road tru Road tru	ick ick ick ick ick ick ick ick	553361.1 553342.4 553324 553305.9 553292.5 553289.6 553291.2	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3
Road tru	ck ck ck ck ck ck ck ck	553361.1 553342.4 553324 553305.9 553292.5 553289.6 553291.2 553301 553320.8	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243 6816243.4	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4
Road tru	ck ck ck ck ck ck ck ck	553361.1 553342.4 553324 553305.9 553292.5 553289.6 553291.2 553301 553320.8 553341	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.4
Road tru	ck ck ck ck ck ck ck ck ck	553361.1 553342.4 553324 553305.9 553292.5 553289.6 553291.2 553301 553320.8 553341 553359.3	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.8 6816244.2	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.4 11.3
Road tru	ck	553361.1 553342.4 553324 553305.9 553292.5 553289.6 553291.2 553301 553320.8 553341 553359.3 553377.5	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.8 6816244.2 6816243.9	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.4
Road tru	ck	553361.1 553342.4 553324 553305.9 553292.5 553289.6 553291.2 553301 553320.8 553341 553359.3	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.8 6816244.2 6816243.9	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.4 11.3
Road tru	ck	553361.1 553342.4 553324 553305.9 553292.5 553291.2 553320.8 553320.8 553341 553359.3 553377.5 553398.2	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.9 6816243.9	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2
Road tru	ck	553361.1 553342.4 553324 553305.9 553292.5 553291.2 553301 553320.8 553341 553359.3 553377.5 553398.2 553419.4	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.9 6816244.2 6816243.9	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2
Road tru	ck	553361.1 553342.4 553324 553305.9 553292.5 553291.2 553301 553320.8 553341 553359.3 553377.5 553398.2 553419.4 553441.1	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.2 6816243.2 6816244.2 6816243.9 6816243.9	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11
Road tru	ck	553361.1 553342.4 553324 553305.9 553292.5 553291.2 553301 553320.8 553341 553359.3 553377.5 553398.2 553419.4 553441.1	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.2 6816244.2 6816244.2 6816243.9	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2
Road tru	ck	553361.1 553342.4 553324 553305.9 553292.5 553291.2 553301 553320.8 553341 553359.3 553377.5 553398.2 553419.4 553441.1	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11
Road tru	ck	553361.1 553342.4 553324 553305.9 553292.5 553291.2 553301 553320.8 553341 553359.3 553377.5 553398.2 553419.4 553441.1 553463.4 553486.3	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.2 6816244.2 6816243.9 6816243.9	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9
Road tru	ck c	553361.1 553342.4 553324 553305.9 553292.5 553291.2 553301 553320.8 553341 553359.3 553377.5 553398.2 553419.4 553463.4 553463.4 553486.3 553509.9	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816244.2 6816244.2 6816242.2 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9 10.8
Road tru	ck c	553361.1 553342.4 553324 553305.9 553292.5 553291.2 553301 553320.8 553341 553359.3 553377.5 553398.2 553419.4 553463.4 553486.3 553509.9 553522.1	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.9 6816243.9 6816242 6816242 6816242 6816243.9 6816237.9 6816237.9	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9 10.8 -8.6
Road tru	ck c	553361.1 553342.4 553324 553305.9 553292.5 553291.2 553301 553320.8 553341 553359.3 553377.5 553398.2 553419.4 553463.4 553486.3 553509.9 553522.1	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816244.2 6816244.2 6816242.2 6816243.9 6816243.9 6816243.9 6816243.9 6816243.9	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9 10.8
Road tru	ck c	553361.1 553342.4 553324 553305.9 553292.5 553291.2 553301 553320.8 553341 553359.3 553377.5 553398.2 553419.4 553463.4 553463.4 553486.3 553509.9 553522.1 55353.4	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.9 6816243.9 6816242 6816240 6816240 6816239 6816237.9 6816237.4 6816243.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9 10.8 -8.6 10.4
Road tru	ck c	553361.1 553342.4 553324 553305.9 553292.5 553291.2 553301 553320.8 553341 553359.3 553377.5 553398.2 553419.4 553441.1 553463.4 553486.3 55359.9 553522.1 55355.4	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.9 6816243.9 6816242 6816240 6816239 6816237.9 6816237.4 6816243.6 6816243.6 6816243.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9 10.8 -8.6 10.4 10.4
Road tru	ck c	553361.1 553342.4 553324 553305.9 553292.5 553291.2 553321 553320.8 553341 553359.3 553377.5 553398.2 553419.4 553463.4 553463.4 553463.4 55359.9 553522.1 55355.4 55358.6 553582.4	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.9 6816243.9 6816241 6816240 6816239 6816237.9 6816237.9 6816237.4 6816240.5 6816240.5	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9 10.8 -8.6 10.4 10.4 10.3
Road tru	ck c	553361.1 553342.4 553324 553305.9 553292.5 553291.2 553320.8 553320.8 553341 553359.3 553419.4 553463.4 553463.4 553463.4 553509.9 553522.1 55355.4 55358.6 553582.4 553606.9	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.9 6816243.9 6816243.9 6816241 6816240 6816237.9 6816237.4 6816243.6 6816243.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9 10.8 -8.6 10.4 10.4
Road tru	ck c	553361.1 553342.4 553324 553329.5 553292.5 553291.2 553320.8 553320.8 553341 553359.3 553419.4 553463.4 553463.4 553463.4 553509.9 553522.1 553535.4 55358.6 553582.4 553606.9	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.9 6816243.9 6816243.9 6816241 6816240 6816237.9 6816237.4 6816243.6 6816243.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9 10.9 10.8 -8.6 10.4 10.4 10.3 10.3
Road tru	ck c	553361.1 553342.4 553324 553329.5 553292.5 553291.2 553320.8 553320.8 553341 553359.3 55347.5 553463.4 553463.4 553463.4 553509.9 553522.1 553535.4 55358.6 553582.4 553606.9 553632	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.9 6816243.9 6816243.9 6816241 6816240.6 6816237.4 6816237.4 6816237.4 6816237.3 6816237.3 6816237.3	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9 10.8 -8.6 10.4 10.4 10.3 10.3 10.2
Road tru	ck c	553361.1 553342.4 553324 553329.5 553292.5 553291.2 553320.8 553320.8 553341 553359.3 553419.4 553463.4 553463.4 553463.4 553509.9 553522.1 553552.1 553558.6 553582.4 553660.9 553657.9	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.8 6816243.9 6816243.9 6816243.9 6816247.9 6816237.9 6816237.3 6816243.6 6816237.3 6816237.3 6816237.3 6816237.3 6816237.3 6816237.3	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9 10.8 -8.6 10.4 10.4 10.3 10.3 10.2 10.2
Road tru	ck c	553361.1 553342.4 553324 553329.5 553292.5 553291.2 553301 553320.8 553359.3 553377.5 553398.2 553419.4 553463.4 553463.4 553463.4 553558.6 553558.6 553582.4 553558.6 553606.9 553632 553657.9 553684.6	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.9 6816243.9 6816243.9 6816237.9 6816237.4 6816240.5 6816237.3 6816237.3 6816237.3 6816237.3 6816237.3 6816237.3 6816237.3 6816237.3 6816237.3	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9 10.9 10.4 10.4 10.3 10.3 10.2 10.1
Road tru	ck c	553361.1 553342.4 553324 553329.5 553292.5 553291.2 553301 553320.8 553359.3 553377.5 553398.2 553419.4 553463.4 553463.4 553463.4 553558.6 553558.6 553582.4 553558.6 553606.9 553632 553657.9 553684.6	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.4 6816243.9 6816243.9 6816243.9 6816237.9 6816237.4 6816240.5 6816237.3 6816237.3 6816237.3 6816237.3 6816237.3 6816237.3 6816237.3 6816237.3 6816237.3	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9 10.8 -8.6 10.4 10.4 10.3 10.3 10.2 10.2
Road tru	ck c	553361.1 553342.4 553324 553329.5 553292.5 553291.2 553301 553320.8 553341 553359.3 553477.5 553463.4 553463.4 553463.4 553522.1 553552.1 553558.6 553522.1 55358.2 553606.9 55362.1	6816263.1 6816265.7 6816268.3 6816270.2 6816257.8 6816244 6816243.4 6816243.8 6816243.9 6816243.9 6816243.9 6816240.6 6816237.9 6816237.3 6816237.3 6816237.3 6816237.3 6816237.3 6816233.3 6816233.3 6816233.3 6816233.3	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	10.7 10.8 10.8 10.8 7.9 12.6 2.3 11.4 11.3 10.2 11.1 11 11 10.9 10.9 10.9 10.9 10.4 10.4 10.3 10.3 10.2 10.1



Road truck	553770	6816212.	2 2.5		10
Road truck	553792.8	6816209.	225		6.9
					8.4
Road truck		6816200.			
Road truck	553825.5	6816185.	9 2.5		8.4
Road truck	553841.5	6816171.	6 2.5		7.9
HAUL TRUCK		6816195.			8.7
HAUL TRUCK		6816198.			8.8
HAUL TRUCK	553432.2	6816202.	4 2.5		8.8
HAUL TRUCK	553413.1	6816206	2.5		8.8
HAUL TRUCK					8.8
HAUL TRUCK					8.9
HAUL TRUCK	553358.1	6816216.	3 2.5		8.9
HAUL TRUCK	553340.4	6816219.	7 2.5		9
HAUL TRUCK		6816222.	025		9
					9
HAUL TRUCK					9
HAUL TRUCK	553288.9	6816229.	3 2.5		9
HAUL TRUCK	553272.2	6816232.	4 2.5		9
HAUL TRUCK		6816235.			8.1
HAUL TRUCK		6816067.			21.6
HAUL TRUCK	553234.3	6815952.	2 2.5		19.2
Receptor X Posn	Y Posn	Height	Ground		Noise Level
	711	-			
(m)	(m)	(m)	(m)		(dB(A))
R4B 552865	6.6 6815421	1.8	18.9		34.6
Source X Posn	Y Posn	Height		Noise Lev	/el
(m)	(m)	(m)		(dB(A))	
	` '		525	(dD(A))	26.0
EXCAVATOR	553218.8				26.9
Generator	553406.4	6816251.	5 1		15.7
EXCAVATOR	553196.1	6815961.	7 2.5		30.9
LOADER	553348.1				16.8
LOADER	553334.6	6816179.	3 2.5		16.8
LOADER	553321.2	6816187.	1 2.5		16.8
LOADER	553307.7	6816194.	925		16.8
	553298.5				12.4
LOADER					
LOADER	553290.8	6816208.	2 2.5		17.1
LOADER	553280.1	6816221.:	5 2.5		17.1
LOADER	553269.2	6816235.	125		17.1
		6816248.3			17.1
LOADER					
LOADER		6816261.			15.9
Road truck	553380.6	6816257.	7 2.5		10.4
Road truck	553362.2	6816260	3 2.5		10.5
Road truck	553344.1				10.5
Road truck	553326.2				10.5
Road truck	553308.6	6816267.9	9 2.5		10.5
Road truck	553293.9	6816270	2.5		8.9
Road truck	553289.7	6816256.6	52.5		12.8
Road truck	553300.6		2.5		11.1
Road truck	553319.3	6816243.4	4 2.5		11
Road truck	553338.5	6816243.	3 2.5		11
Road truck	553357.7	6816244.2	2.5		10.8
Road truck	553377	6816243.9			10.8
Road truck	553396.6		2.5		10.7
Road truck	553416.6	6816242	1 2.5		10.7
Road truck	553437	6816241.2	2 2.5		10.7
Road truck	553457.8	6816240.3	3 2 5		10.6
Road truck	553479.1	6816239.3			10.6
Road truck	553501	6816238.3			10.6
Road truck	553517.2	6816237.6	5 2.5		7.1
Road truck	553534.8	6816243.1	7 2.5		10.2
Road truck	553556.5	6816240.3	7 2.5		10.2
Road truck	553578.8	6816237.8			10.1
Road truck	553601.6	6816234.			10.1
Road truck	553624.9	6816231.6	2.5		10.1
Road truck	553648.8	6816228.4	1 2.5		10
Road truck	553673.3	6816225.	1 2.5		9.9
Road truck	553698.5	6816221.8			9.9
Road truck	553724.4	6816218.3			9.9
Road truck	553751.1	6816214.8	3 2.5		9.8
Road truck		6816211.1	1 2.5		9.8
	553778.6	0010211.			
Road truck					4.2
Road truck	553796.5	6816208.7	7 2.5		4.2
Road truck	553796.5 553808.5	6816208.3 6816201	7 2.5 2.5		8.5
	553796.5	6816208.7	7 2.5 2.5 5 2.5		



LIAIII	TRUCK	553472.1	6816195	2.5		8.5
	TRUCK	553453.2				8.5
	TRUCK	553434.7		2.5		8.6
	TRUCK		6816205.4			8.6
	TRUCK	553398.6	6816208.7			8.6
	TRUCK	553380.9				8.6
HAUL'	TRUCK		6816215.3			8.7
HAUL '	TRUCK	553346.4	6816218.5	2.5		8.7
HAUL	TRUCK	553329.4	6816221.7	2.5		8.7
HAUL '	TRUCK	553312.7	6816224.9	2.5		8.7
	TRUCK	553296.1	6816228	2.5		8.7
	TRUCK	553279.8	6816231	2.5		8.8
	TRUCK		6816234.1			8.8
	TRUCK	553253.3	6816236	2.5		3.4
	TRUCK	553427.6		2.5		16.9
	TRUCK	553353	6816067.6			17.2
	TRUCK	553293.6	6816009.8			17.4
HAUL'		553245	6815962.7			17.5
HAUL'	TRUCK	553214.3	6815932.9	2.5		14.6
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
R5A	552762.8	6815886.6	1.8	24.1		38.8
Source	X Posn	Y Posn	Height		Noise Lev	el
10.70.000.000.	(m)	(m)	(m)		(dB(A))	
EXCAV		553218.8	6815913.5	2.5	(42(11))	33.9
Generate		553406.4				19.1
						34.3
EXCAV		553196.1	6815961.7			
LOADE		553348.9	6816171	2.5		18.9
LOADE	.R	553337.2	6816177.8			18.9
LOADE	R	553325.7	6816184.4	2.5		18.9
LOADE	R	553314.5	6816191	2.5		18.9
LOADE	R	553303.5	6816197.3	2.5		18.9
LOADE	R	553297.1	6816201.1	2.5	100	11.8
LOADE		553292.7	6816205.9	2.5		18.4
LOADE		553285.8	6816214.4			18.4
LOADE		553279.1	6816222.8			18.4
		553272.3	6816231.2			18.4
LOADE						
LOADE		553265.6	6816239.6			18.4
LOADE		553258.8	6816248	2.5		18.4
LOADE		553252.1	6816256.3			18.4
LOADE		553246.4	6816263.5			17
Road tru	ıck	553379.9	6816257.8	2.5		14.1
Road tru	ıck	553360.6	6816260.5	2.5		14.1
Road tru	ick	553342	6816263.1	2.5		14.2
Road tru	ck	553324.2	6816265.7	2.5		14.2
Road tru	ck	553307.1	6816268.1	2.5		14.3
Road tru		553293.4	6816270	2.5		12.5
Road tru		553288.8	6816264.4			13.4
Road tru		553290.3	6816251.7			13.4
Road tru		553291.2	6816244.1			6.7
Road tru		553301.8	6816243	2.5		15.5
		553323.5	6816243.5			15.5
Road tru						
Road tru		553346.4	6816243.9			15.4
Road tru		553362.9	6816244.3			11
Road tru		553378.7	6816243.8			14.8
Road tru	ck	553402.4	6816242.8			14.8
Road tru	ck	553427.4	6816241.7	2.5		14.7
Road tru	ck	553453.9	6816240.5	2.5		14.6
Road tru	ck	553482.1	6816239.2	2.5		14.5
Road tru	ck	553509.4	6816238	2.5		13.6
Road tru		553537.7	6816243.3			13.6
Road tru		553566.1	6816239.5			13.6
Road tru		553596.1	6816235.5			13.5
Road tru		553628.1	6816231.2			13.4
Road tru		553662	6816226.7			13.4
						13.3
Road tru		553698.3	6816221.8			
Road tru		553737	6816216.6			13.1
Road tru		553778.6	6816211.1			13
Road tru			6816200.8			9.9
Road tru			6816185.7			9.8
Road tru			6816171.5			9.1
HAUL T	RUCK	553469.7	6816195.4	2.5		11.9



	TRUCK	553446.8	6816199.7	125	11.9
	TRUCK		6816203.8		12
	TRUCK	553404.1			12
	TRUCK	553384.2			12
	TRUCK	553365.2			12.1
	TRUCK	553347	6816218.4		12.2
	TRUCK		6816221.7		12,2
	TRUCK	553312.7			12.2
	TRUCK		6816227.9		12.3
HAUL	TRUCK		6816230.8		12.3
	TRUCK	553265.9	6816233.6	2.5	12.3
HAUL'	TRUCK	553254.7	6816235.7	2.5	9.6
HAUL	TRUCK	553459.5	6816171	2.5	13.8
HAUL'	TRUCK	553435.4	6816147.6	2.5	13.8
HAUL	TRUCK	553413.1	6816126	2.5	13.9
HAUL 1	TRUCK	553392.6	6816106	2.5	14
HAUL'	TRUCK	553373.5	6816087.5	2.5	14
HAUL'	TRUCK	553355.8	6816070.2	2.5	14.1
HAUL	TRUCK	553339.2	6816054.2	2.5	14.1
HAUL	TRUCK	553323.7	6816039.1	2.5	14.1
HAUL	TRUCK	553309.1	6816024.9	2.5	14.2
HAUL "	TRUCK	553295.4	6816011.6	2.5	14.2
HAUL	TRUCK	553282.5	6815999	2.5	14.3
HAUL	TRUCK	553270.2	6815987.2	2.5	14.3
HAUL	TRUCK	553258.6	6815975.9	2.5	14.3
HAUL	TRUCK	553247.6	6815965.2	2.5	14.4
HAUL ?	TRUCK	553237.2	6815955	2.5	14.4
HAUL			6815945.3		14.4
HAUL	TRUCK	553217.7	6815936.1	2.5	14.4
HAUL 7	TRUCK	553209	6815927.7	2.5	14
Receptor	X Posn	Y Posn	Height	Ground	Noise Level
	(m)	(m)	(m)	(m)	(dB(A))
R5B	552747.8	6815977.7		26.9	38.6
Source	X Posn	Y Posn	Height	Noise	
0.001	(m)	(m)	(m)	(dB(A	
EXCAV		553218.8	• /		33.5
Generate	or	553406.4	6816251.5	1	19.3
Generate EXCAV		553406.4 553196.1			19.3 34
EXCAV	ATOR	553196.1	6815961.7	2.5	19.3 34 19.5
	ATOR R	553196.1 553348.4		2.5 2.5	34
EXCAV LOADE	ATOR R R	553196.1 553348.4 553335.8	6815961.7 6816171.3	2.5 2.5 2.5	34 19.5
EXCAV LOADE LOADE	ATOR R R R	553196.1 553348.4 553335.8	6815961.7 6816171.3 6816178.6 6816185.7	2.5 2.5 2.5 2.5	34 19.5 19.5
EXCAV LOADE LOADE LOADE	ATOR R R R R	553196.1 553348.4 553335.8 553323.5 553311.7	6815961.7 6816171.3 6816178.6 6816185.7	2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5
EXCAV LOADE LOADE LOADE LOADE	ATOR R R R R R	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5
EXCAV LOADE LOADE LOADE LOADE LOADE	ATOR R R R R R R	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816198.8	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8
EXCAV LOADE LOADE LOADE LOADE LOADE LOADE	ATOR R R R R R R R	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816198.8 6816205.9 6816214.2	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7
EXCAV LOADE LOADE LOADE LOADE LOADE LOADE	ATOR R R R R R R R R	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553286 553279.4	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816198.8 6816205.9 6816214.2	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7
EXCAV LOADE LOADE LOADE LOADE LOADE LOADE LOADE	ATOR R R R R R R R R R	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553286 553279.4	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816198.8 6816205.9 6816214.2 6816222.4	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7
EXCAV LOADE LOADE LOADE LOADE LOADE LOADE LOADE LOADE	ATOR R R R R R R R R R R	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553286 553279.4 553272.8	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816198.8 6816205.9 6816214.2 6816222.4 6816230.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7
EXCAV LOADE	ATOR R R R R R R R R R R R	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553286 553279.4 553272.8 553266.3	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816205.9 6816214.2 6816222.4 6816230.6 6816238.7 681624.7 681624.7	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE	ATOR R R R R R R R R R R R	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553286 553279.4 553272.8 553266.3 553259.8	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816205.9 6816214.2 6816222.4 6816238.7 6816246.7	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE	ATOR R R R R R R R R R R R R	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553286 553279.4 553272.8 5532766.3 553259.8 553253.4 553247.1 553378.5	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816292.4 6816222.4 68162230.6 6816230.7 681624.7 6816254.7 6816254.7 6816258	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE	ATOR R R R R R R R R R R R R R	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553279.4 553279.4 553272.8 553259.8 553253.4 553247.1	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816205.9 6816214.2 6816222.4 6816223.7 6816246.7 6816254.7 6816254.7	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE	ATOR R R R R R R R R R R R R R R R R R R	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553286 553279.4 553272.8 5532766.3 553259.8 553253.4 553247.1 553378.5	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816292.4 6816222.4 68162230.6 6816230.7 681624.7 6816254.7 6816254.7 6816258	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE Road tru Road tru	ATOR R R R R R R R R R R R R R R R R R C R R C	553196.1 553348.4 55335.8 553323.5 553311.7 553300.9 553292.7 553279.4 553272.8 553266.3 553259.8 553253.4 553247.1 553378.5 553356.6 55335.9 553316.2	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816292.4 6816222.4 6816230.6 6816230.7 6816254.7 6816254.7 6816258 6816258 6816258	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE ROADE Road tru Road tru Road tru Road tru	ATOR R R R R R R R R R R R R R R R C R R C	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553286 553279.4 553272.8 553266.3 553253.4 553247.1 553378.5 553356.6 55335.9	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816198.8 6816205.9 6816214.2 6816222.4 6816230.7 6816238.7 6816254.7 6816256.6 6816258 6816258 6816264.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE Road tru Road tru Road tru Road tru Road tru	ATOR R R R R R R R R R R R R R R R C C C C	553196.1 553348.4 55335.8 553323.5 553311.7 553300.9 553292.7 553279.4 553272.8 553266.3 553259.8 553253.4 553247.1 553378.5 553356.6 55335.9 553316.2	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816205.9 6816214.2 6816222.4 6816230.6 6816238.7 6816254.7 6816254.7 6816258 6816261.1 6816264 6816264.8 6816264.8 6816264.8	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 15.1 15.1 15.2 15.2 15.3 -1.2
EXCAV LOADE ROADE	ATOR R R R R R R R R R R R R R R R C C C C	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553286 553279.4 553272.8 553259.8 553253.4 553247.1 553378.5 553356.6 55335.9 553316.2 553297.4	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816205.9 6816214.2 6816222.4 6816238.7 6816246.7 6816254.7 6816256.1 6816261.1 6816264.6 6816266.8 6816261.6 6816265.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 15.1 15.2 15.2 15.3 -1.2 13.4
EXCAV LOADE Road tru	ATOR R R R R R R R R R R R R R R R C C C C	553196.1 553348.4 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553279.4 553272.8 553266.3 553259.8 553253.4 553247.1 553378.5 553356.6 55335.6 55335.6 55335.7 553297.4 553288.2 553288.7 553290	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816205.9 6816214.2 6816222.4 6816230.6 6816238.7 6816254.7 6816254.7 6816264.8 6816261.1 6816264.8 6816264.8 6816264.9 6816270.8 6816270.8	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE ROADE	ATOR R R R R R R R R R R R R R R R C C C C	553196.1 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553279.4 553272.8 553266.3 553253.4 553253.4 553247.1 553378.5 553356.6 553359.8 553359.8 553247.1 553378.5 553356.6 553359.8 553247.1 553378.5 553356.8	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816205.9 6816214.2 6816222.4 6816238.7 6816246.7 6816254.7 6816256.1 6816261.1 6816264.6 6816266.8 6816261.6 6816265.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE Road tru	ATOR R R R R R R R R R R R R R R R R C	553196.1 553348.4 553348.5 553323.5 553311.7 553300.9 553292.7 553272.8 553272.8 553272.8 553253.4 553253.4 553253.4 553378.5 553356.6 553359.8 553297.4 553288.2 553297.4 553297.4	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816205.9 6816214.2 6816222.4 6816222.4 6816230.6 6816238.7 6816254.7 6816254.7 6816262.6 6816266.8 6816260.5 6816260.5 6816270.8 6816253.8 6816253.8 6816253.8 6816243.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE Road tru	ATOR R R R R R R R R R R R R R R R R C	553196.1 553348.4 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553286 553279.4 553279.4 553253.4 553253.4 553247.1 553378.5 553356.6 553335.9 553297.4 553297.4 553288.2 553297.4 553297.4 553291 553291 553304.2 55331.3	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816205.9 6816214.2 6816222.4 6816230.6 6816238.7 681624.7 6816254.7 6816258 6816261.1 6816264 6816269.5 6816270.8 6816265.1 6816253.8 6816253.8 6816243.1 6816243.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE Road tru	ATOR R R R R R R R R R R R R R R R R C	553196.1 553348.4 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553286 553279.4 553279.4 553253.4 553297.4 553290.5 553291.5 553304.2 553331.3 553356.4	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816205.9 6816214.2 6816222.4 6816230.6 6816238.7 6816245.7 6816254.7 6816265.8 6816261.1 6816264.6 6816270.8 6816270.8 6816253.8 6816243.1 6816243.1 6816243.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE Road tru	ATOR R R R R R R R R R R R R R R R R C	553196.1 553348.4 553348.4 55335.8 553323.5 553311.7 553300.9 553292.7 553286 553279.4 553279.4 553259.8 553253.4 553247.1 553378.5 553356.6 553359.8 553297.4 553288.2 553288.2 553288.7 553288.1 553291 553304.2 55331.3 553356.4 553381.1	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816205.9 6816214.2 6816222.4 6816230.6 6816238.7 681624.7 6816258 6816261.1 6816264 6816265.8 6816270.8 6816270.8 6816253.8 6816253.8 6816243.1 6816243.1 6816243.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.6 15 15.1 15.2 15.2 15.2 15.3 -1.2 13.4 10.3 16.9 16.8 15.3 16
EXCAV LOADE Road tru	ATOR R R R R R R R R R R R R R R R R R R	553196.1 553348.4 553348.4 553323.5 553311.7 553300.9 553292.7 553286 553279.4 553272.8 553253.4 553253.4 553247.1 553378.5 553356.6 553356.6 553359.8 553297.4 553288.2 553297.4 553297.4 553290 553291 553304.2 55331.3 553356.4 55331.1 553410.2	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816205.9 6816221.4 6816230.6 6816238.7 6816254.7 6816254.7 6816254.7 6816258.6 6816258.6 6816264.1 6816264.1 6816264.3 6816245.1 6816243.1 6816243.1 6816243.1 6816243.1 6816243.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE Road tru	ATOR R R R R R R R R R R R R R R R R R R	553196.1 553348.4 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553286 553279.4 553272.8 553253.4 553253.4 553253.4 553253.4 553253.4 55327.1 553378.5 553356.6 55335.9 553297.4 553288.2 553297.4 553290 553291 553304.2 553356.4 553381.1 553410.2 553441.5	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816198.8 6816205.9 6816214.2 6816222.4 6816238.7 6816254.7 6816254.7 6816258.6 6816261.1 6816264.6 6816265.1 6816263.8 6816261.3 6816245.5 6816243.1 6816243.4 6816243.4 6816243.7 6816243.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.6 15 15.1 15.2 15.2 15.3 -1.2 13.4 13.4 10.3 16.9 16.8 15.3 16 15.9 15.8
EXCAV LOADE Road tru	ATOR R R R R R R R R R R R R R R R R R R	553196.1 553348.4 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553292.7 553279.4 553272.8 553253.4 553253.4 553247.1 553378.5 553356.6 5533590 55316.2 553297.4 553288.2 553290 553291 553304.2 55331.3 553366.4 553381.1 553410.2 553441.5 553475.5	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816198.8 6816205.9 6816214.2 6816222.4 6816238.7 6816254.7 6816254.7 6816254.7 6816264.6 6816265.1 6816265.1 6816265.1 6816245.5 6816245.5 6816245.5 6816245.7 6816243.1 6816243.7 6816243.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.6 15 15.1 15.2 15.2 15.3 -1.2 13.4 10.3 16.9 16.8 15.3 16 15.9 15.8 15.7
EXCAV LOADE Road tru	ATOR R R R R R R R R R R R R R R R R R R	553196.1 553348.4 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553279.4 553272.8 553266.3 553259.8 553253.4 553253.4 553253.4 553257.4 553378.5 553316.2 553297.4 553297.4 553288.2 553297.4 553290 553291 55331.3 553356.4 553356.4 553356.4 553410.2 553410.2 553475.5 553507.7	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816198.8 6816205.9 6816214.2 6816222.4 6816238.7 6816254.7 6816254.7 6816258. 6816264. 6816264. 6816265.1 6816265.1 6816243.1 6816243.1 6816243.1 6816243.1 6816243.1 6816243.7 6816243.1 6816243.7 6816243.7 6816243.3 6816243.7 6816243.3 6816243.7 6816243.7 6816243.7 6816243.7 6816243.7 6816243.7	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE Road tru	ATOR R R R R R R R R R R R R R R R R R R	553196.1 553348.4 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553272.8 553272.8 553266.3 553259.8 553253.4 553247.1 553378.5 553356.6 55335.9 553297.4 553288.2 553297.4 553288.2 553291 553304.2 55331.3 553356.4 553356.4 55331.3 553356.4 553410.2 553441.5 553475.5 55367.7 553540.2	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816198.8 6816205.9 6816214.2 6816222.4 6816238.7 6816254.7 6816254.7 6816258 6816261.1 6816264.1 6816264.2 6816270.8 6816270.8 6816243.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE Road tru	ATOR R R R R R R R R R R R R R R R R R R	553196.1 553348.4 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553272.8 553272.8 553266.3 553259.8 553253.4 553247.1 553378.5 553356.6 55335.6 553316.2 553290 553291 553290 553291 553304.2 553288.7 553288.7 55336.4 553356.4 553356.4 553410.2 553441.5 553475.5 553507.7 553540.2 553574.3	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816205.9 6816214.2 6816222.4 6816223.4 6816254.7 6816254.7 6816254.7 6816254.7 6816264.1 6816264.8 6816269.5 6816270.8 6816243.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7
EXCAV LOADE Road tru	ATOR R R R R R R R R R R R R R R R R R R	553196.1 553348.4 553348.4 553335.8 553323.5 553311.7 553300.9 553292.7 553272.8 553272.8 553266.3 553259.8 553253.4 553247.1 553378.5 553356.6 55335.9 553297.4 553288.2 553297.4 553288.2 553291 553304.2 55331.3 553356.4 553356.4 55331.3 553356.4 553410.2 553441.5 553475.5 55367.7 553540.2	6815961.7 6816171.3 6816178.6 6816185.7 6816192.6 6816198.8 6816205.9 6816214.2 6816222.4 6816238.7 6816254.7 6816254.7 6816258 6816261.1 6816264.1 6816264.2 6816270.8 6816270.8 6816243.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	34 19.5 19.5 19.5 19.5 18.8 18.7 18.7 18.7 18.7 18.7 18.7 18.7



Road ti					
	uck	553693.7	6816222.	4 2.5	14.1
Road ti		553740.6			14
Road tr	uck	553782.8	6816210	5 2.5	12.1
Road to	uck	553809.2	6816200.	4 2.5	10.1
Road tr	uck	553827	6816184.:	5 2.5	10.1
Road tr	uck	553842.6	6816170.	6 2.5	8.5
HAUL	TRUCK	553467.4	6816195.	8 2.5	12.8
HAUL	TRUCK	553440.4	6816200.5	9 2.5	12.9
HAUL	TRUCK	553415	6816205.	7 2.5	12.9
HAUL	TRUCK	553391.2	6816210.	1 2.5	13
	TRUCK		6816214.4		13
	TRUCK	553347.5			13.1
	TRUCK	553327.4			13.2
	TRUCK		6816225.		13.2
	TRUCK	553290.2			13.2
	TRUCK	553273	6816232.3		13.3
	TRUCK		6816235.2		12.6
	TRUCK		6816174		12.7
	TRUCK		6816155.9		12.8
	TRUCK TRUCK		6816138.8 6816122.8		12.8 12.9
	TRUCK		6816107.5		12.9
	TRUCK		6816093.		12.9
	TRUCK		6816079.5		13
	TRUCK		6816066.5		13
	TRUCK		6816054.1		13
	TRUCK		6816042.2		13
	TRUCK		6816030.9		13.1
	TRUCK		6816020.1		13.1
	TRUCK		6816009.7		13.1
	TRUCK		6815999.8		13.2
	TRUCK		6815990.2		13.2
	TRUCK		6815980.9		13.2
	TRUCK		6815972		13.2
	TRUCK	553245.8			13.2
	TRUCK	553237.3	6815955.1		13.3
	TRUCK	553229	6815947.1	2.5	13.3
HAUL	TRUCK	553221	6815939.3	3 2.5	13.3
HAUL	TRUCK	553213.2	6815931.7	2.5	13.3
HAUL	TRUCK	553207.2	6815926	2.5	10.9
Receptor	X Posn	Y Posn	Height	Ground	Noise Level
1.00					
	(m)	(m)	(m)	(m)	(dB(A))
R6A	(m) 552849.5	(m) 6816597		(m) 7.7	
R6A Source		, ,	(m)		(dB(A))
	552849.5	6816597	(m) 1.8		(dB(A)) 36.2
Source	552849.5 X Posn	6816597 Y Posn	(m) 1.8 Height	7.7	(dB(A)) 36.2 Noise Level
Source	552849.5 X Posn (m) /ATOR	6816597 Y Posn (m) 553218.8 553406.4	(m) 1.8 Height (m)	7.7	(dB(A)) 36.2 Noise Level (dB(A))
Source EXCAV	552849.5 X Posn (m) /ATOR or	6816597 Y Posn (m) 553218.8	(m) 1.8 Height (m) 6815913.5	7.7	(dB(A)) 36.2 Noise Level (dB(A)) 29.2
Source EXCAV Generat	552849.5 X Posn (m) /ATOR or /ATOR	6816597 Y Posn (m) 553218.8 553406.4	(m) 1.8 Height (m) 6815913.5 6816251.5 6815961.7 6816183.2	7.7 5.2.5 5.1 2.5 2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7
Source EXCAV Generat EXCAV	552849.5 X Posn (m) /ATOR or /ATOR ER	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553299.7	(m) 1.8 Height (m) 6815913.5 6816251.5 6816183.2 6816199.6	7.7 5 2.5 5 1 7 2.5 1 2.5 2 2.5 5 2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3
EXCAV Generat EXCAV LOADE LOADE LOADE	552849.5 X Posn (m) /ATOR or /ATOR ER ER ER	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553299.7 553277.6	(m) 1.8 Height (m) 6815913.5 6816251.5 6816183.2 6816199.6 6816224.6	7.7 3.2.5 3.1 1.2.5 2.2.5 3.2.5 3.2.5 3.2.5 3.2.5 3.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE	552849.5 X Posn (m) /ATOR or /ATOR GR GR GR GR	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553299.7 553277.6 553252.2	(m) 1.8 Height (m) 6815913.5 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2	7.7 5.2.5 5.1 2.5 5.2.5 5.2.5 5.2.5 5.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE Road tn	552849.5 X Posn (m) /ATOR or /ATOR GR GR GR GR GR	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553299.7 553277.6 553252.2 553376.6	(m) 1.8 Height (m) 6815913.5 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2	7.7 5 2.5 5 1 7 2.5 6 2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE Road tro	552849.5 X Posn (m) /ATOR or /ATOR BR BR BR BR BR BR BR BR BR B	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553299.7 553277.6 553252.2 553376.6 553351.6	(m) 1.8 Height (m) 6815913.5 6816251.5 6816183.2 6816183.2 6816224.6 6816256.2 6816258.2 6816261.8	7.7 5.2.5 5.1 7.2.5 5.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE Road tru Road tru Road tru	552849.5 X Posn (m) /ATOR or /ATOR ER ER ER ER ER LICK	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553299.7 553277.6 553252.2 553376.6 553351.6	(m) 1.8 Height (m) 6815913.5 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816256.2 6816265.1	7.7 5.2.5 6.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.5
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE Road tn Road tn Road tn	552849.5 X Posn (m) /ATOR or /ATOR ER ER ER ER ER Lock Lock Lock Lock Lock Lock Lock	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553259.7 553252.2 553376.6 553351.6 553328.4 553306.7	(m) 1.8 Height (m) 6815913.5 6816251.5 6816183.2 6816199.6 6816224.6 6816256.2 6816256.2 6816261.8	7.7 5.2.5 5.1 2.5 5.2.5 6	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.5
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE Road tin Road tin Road tin Road tin	552849.5 X Posn (m) /ATOR or /ATOR ER ER ER ER ER ick ick ick ick ick ick	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553277.6 553277.6 553252.2 553376.6 553351.6 553328.4 553306.7 553292.2	(m) 1.8 Height (m) 6815913.5 6816251.5 6816183.2 6816199.6 6816256.2 6816256.2 681626.8 6816265.1 681626.2	7.7 5.2.5 6.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE Road tn Road tn Road tn Road tn Road tn Road tn Road tn	552849.5 X Posn (m) /ATOR or /ATOR GR GR GR GR GR GR GR GR GR G	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553297.6 553252.2 553376.6 553325.2 553376.6 553328.4 553306.7 553292.2	(m) 1.8 Height (m) 6815913.5 6816251.5 6816183.2 6816199.6 6816254.6 6816258.2 6816261.8 68162624.6 68162624.6 68162624.6	7.7 5.2.5 6.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9
EXCAV Generat EXCAV LOADE LOADE LOADE Road tn Road tn Road tn Road tn Road tn Road tn Road tn Road tn	552849.5 X Posn (m) /ATOR or /ATOR GR GR GR GR GR GR GR GR GR G	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553297.7 553252.2 553252.2 553351.6 553351.6 553328.4 553306.7 553292.2 553288.8 553290.4	(m) 1.8 Height (m) 6815913.5 6816251.5 6816183.2 6816199.6 6816256.2 6816256.2 6816261.8 6816265.1 68162624.2 6816262.2	7.7 5.2.5 6.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 15.9
EXCAV Generat EXCAV LOADE LOADE LOADE Road tn Road tn	552849.5 X Posn (m) /ATOR or /ATOR GR GR GR GR GR GR GR GR GR G	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553297.7 553252.2 553376.6 553252.2 55336.7 553292.2 55328.8 553290.4 553291.3	(m) 1.8 Height (m) 6815913.5 6816251.5 6816199.6 6816224.6 6816256.2 6816258.2 6816265.1 68162670.2 6816264.2 6816264.2	7.7 5.2.5 6.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 15.9 4.4
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE Road tn Road tn Ro	552849.5 X Posn (m) /ATOR or /ATOR ER	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553299.7 553252.2 553376.6 553328.4 553306.7 553292.2 553288.8 553290.4 553291.3	(m) 1.8 Height (m) 6815913.5 6816251.5 6816199.6 6816224.6 6816258.2 6816262.8 6816265.1 6816262.2 6816263.2 6816264.2 6816264.2 6816243.3 6816243.3	7.7 5.2.5 5.1 5.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE Road tn Road tn Ro	552849.5 X Posn (m) /ATOR or /ATOR ER	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553299.7 553252.2 553376.6 553351.6 553328.4 553306.7 553292.2 553290.4 553291.3 553290.1	(m) 1.8 Height (m) 6815913.5 6816251.5 6816199.6 6816224.6 6816258.2 6816261.8 6816265.1 6816262.2 6816263.2 6816270.2 681624.3 6816243.3	7.7 5.2.5 5.1 2.2.5 5.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 15.9 4.4 16.2 16.1
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE Road tn Road tn Ro	552849.5 X Posn (m) /ATOR or /ATOR GR	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553299.7 553252.2 553376.6 553351.6 553328.4 553306.7 553292.2 553288.8 553290.4 553291.3 553291.3	(m) 1.8 Height (m) 6815913.5 6816251.5 6816183.2 6816183.2 6816224.6 6816256.2 6816258.2 6816261.8 6816265.1 6816262.2 6816260.2 6816260.3 6816243.3 6816243.3	7.7 3.2.5 3.1 3.2.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 15.9 4.4 16.2 16.1
EXCAV Generat EXCAV LOADE LOADE LOADE Road tn Road tn	552849.5 X Posn (m) /ATOR or /ATOR GR	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553277.6 553252.2 553376.6 553351.6 553328.4 553290.4 553290.4 553290.4 553291.3 553299.1 553315.2 553349.6	(m) 1.8 Height (m) 6815913.5 6816251.5 6816183.2 6816183.2 681625.2 6816256.2 6816256.2 6816265.1 6816264.2 6816264.3 6816243.3 6816243.3 6816243.3 6816244	7.7 3.2.5 3.1 3.2.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE Road in Road in Ro	552849.5 X Posn (m) /ATOR or /ATOR ER ER ER ER Leck Leck Leck Leck Leck Leck Leck Leck	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 55327.6 553252.2 553376.6 553351.6 553328.4 553306.7 553292.2 553288.8 553290.4 553290.4 553315.2 553315.2 553349.6 553363	(m) 1.8 Height (m) 6815913.5 6816251.5 6816183.2 6816183.2 6816254.6 6816256.2 6816256.2 6816262.2 6816263.2 6816263.3 6816243.3 6816243.3 6816243.3 6816244.3	7.7 5.2.5 6.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE Road tn Road tn Ro	552849.5 X Posn (m) /ATOR or /ATOR GR	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553299.7 553252.2 553376.6 553328.4 553306.7 553292.2 553288.8 553290.4 553291.3 553315.2 553332 553349.6 553363 553378	(m) 1.8 Height (m) 6815913.5 6816251.5 6816324.6 6816294.6 6816256.2 6816265.1 6816262.6 6816262.6 6816262.6 6816263.6 6816263.6 6816263.6 6816243.6 6816243.6 6816243.6 6816243.6	7.7 5.2.5 6.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16 12.7 16.4
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE LOADE Road in Road	552849.5 X Posn (m) /ATOR or /ATOR GR	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553259.7 553252.2 553376.6 553328.4 553306.7 553292.2 553288.8 553290.4 553291.3 553291.3 553291.3 553315.2 553363 553378 553400	(m) 1.8 Height (m) 6815913.5 6816251.5 6815961.7 6816183.2 6816243.6 6816254.6 6816256.2 6816262.2 6816263.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3 6816243.3	7.7 5.2.5 6.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16.1 16 12.7 16.4 16.3
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE LOADE Road tn Road	552849.5 X Posn (m) /ATOR or /ATOR GR	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553279.7 553277.6 553252.2 553376.6 553328.4 553306.7 553292.2 553288.8 553290.4 553291.3 553291.3 553293.1 553315.2 553363 553378 553400 553423.4	(m) 1.8 Height (m) 6815913.5 6816251.5 6816199.6 6816244.6 6816256.2 6816258.2 6816265.2 6816265.2 6816263.3 6816243.3 6816243.3 6816244.3 6816244.3 6816244.3 6816244.3	7.7 5.2.5 6.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5 6.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 15.9 4.4 16.2 16.1 16.1 16 12.7 16.4 16.3 7.9
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE LOADE Road in Road	552849.5 X Posn (m) /ATOR or /ATOR ER ER ER ER ER LICK LICK LICK LICK LICK LICK LICK LICK	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553277.6 553277.6 553252.2 553376.6 553328.4 553306.7 553292.2 553288.8 553290.4 553291.3 553290.1 553315.2 553315.2 553340.6 553363 553378 553400 553423.4 553448.3	(m) 1.8 Height (m) 6815913.5 6816251.5 6816199.6 681624.6 6816256.2 6816258.2 6816262.8 6816265.1 6816262.2 6816263.3 6816243.3 6816243.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3	7.7 5.2.5	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16 12.7 16.4 16.3 7.9 16.1
EXCAN Generat EXCAN LOADE LOADE LOADE LOADE Road tn Road tn Ro	552849.5 X Posn (m) /ATOR or /ATOR ER	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553299.7 553252.2 553376.6 553351.6 553328.4 553306.7 553292.2 553288.8 553290.4 553291.3 553290.4 553293.3 553293.4 553363 553363 553363 553363 553400 553423.4 553448.3 553474.9	(m) 1.8 Height (m) 6815913.5 6816251.5 6816199.6 6816254.6 6816256.2 6816258.2 6816265.1 6816265.1 6816263.3 6816243.3 6816243.3 6816243.3 6816244.3 6816244.3 6816244.3 6816244.3	7.7 5.2.5 5.2.5 5.2.5 5.2.5 5.2.5 5.2.5 5.2.5 5.2.5 5.2.5 6.2.	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16 12.7 16.4 16.3 7.9 16.1 16.1
EXCAV Generat EXCAV LOADE LOADE LOADE LOADE LOADE Road in Road	552849.5 X Posn (m) /ATOR or /ATOR ER	6816597 Y Posn (m) 553218.8 553406.4 553196.1 553327.9 553277.6 553277.6 553252.2 553376.6 553328.4 553306.7 553292.2 553288.8 553290.4 553291.3 553290.1 553315.2 553315.2 553340.6 553363 553378 553400 553423.4 553448.3	(m) 1.8 Height (m) 6815913.5 6816251.5 6816199.6 681624.6 6816256.2 6816258.2 6816262.8 6816265.1 6816262.2 6816263.3 6816243.3 6816243.3 6816244.3 6816244.3 6816244.3 6816244.3 6816244.3	7.7 5.2.5 5.2.5 5.2.5 5.2.5 5.2.5 6.2.	(dB(A)) 36.2 Noise Level (dB(A)) 29.2 19.7 26.5 26.2 18.3 26.9 24.5 17.4 17.5 17.6 13.9 15.9 4.4 16.2 16.1 16.1 16 12.7 16.4 16.3 7.9 16.1



Road to	ruck	553543.9	6816242.	4 2.5		16.8
Road to			6816236.			16.7
Road to			6816230.			16.6
Road ti			6816223.			16.3
Road to Road to		553746.3	6816215.4 6816209.4			16.2
Road ti		553821.1				11,1 14.8
Road to			6816167.			6.3
	TRUCK		6816196.			14.4
	TRUCK		6816202			14.5
	TRUCK	553403.9				14.6
	TRUCK		6816212.8			14.7
	TRUCK		6816217.5			14.8
	TRUCK	553328.3				14.9
	TRUCK	553306.4				15
	TRUCK TRUCK	553285.9	6816233.5			15 15.1
	TRUCK	553254.1				10.7
	TRUCK		6816178.9			10.7
	TRUCK	553458.1				10.3
	TRUCK		6816160.5			10.3
HAUL	TRUCK	553439.3	6816151.4	2.5		10.3
	TRUCK		6816142.3			10.3
	TRUCK		6816133.3			10.3
	TRUCK		6816124.3			10.3
	TRUCK	553402.1				10.3
	TRUCK	553393	6816106.4			10.3
	TRUCK TRUCK		6816097.5 6816088.6			10.3
	TRUCK		6816079.7			10.3
	TRUCK		6816070.8			10.3
	TRUCK	553347.2				10.3
	TRUCK	553338	6816053			10.2
	TRUCK		6816044.1			10.2
HAUL	TRUCK		6816035.2			10.2
	TRUCK	553310.4	6816026.2	2.5		6.9
	TRUCK		6816017.2			6.9
	TRUCK		6816008.2			6.9
	TRUCK		6815999.2			6.9
	TRUCK TRUCK		6815990.1 6815980.9			6.9
	TRUCK		6815971.7			6.8 6.8
	TRUCK		6815962.5			6.8
		553235.2				6.8
	TRUCK		6815943.7			6.8
HAUL'	TRUCK	553215.7	6815934.2	2.5		6.8
HAUL	TRUCK	553208	6815926.7	2.5		4.4
				2		
Receptor		Y Posn		Ground		Noise Level
D/D	(m)	(m)	(m)	(m)		(dB(A))
R6B Source	552715.7 X Posn	6816554.2 Y Posn	Height	10.6	Noise Leve	35.7
Source	(m)	(m)	(m)		(dB(A))	71
EXCAV		553218.8	6815913.5	2.5		28.6
Generate	or	553406.4	6816251.5			18.3
EXCAV	'ATOR	553196.1	6815961.7	2.5		29.3
LOADE	R	553324.1	6816185.4	2.5		25.5
LOADE		553285.4	6816214.9			23.1
LOADE		553265.6	6816239.6			23.1
LOADER		553250	6816258.9			21.6
Road truck		553367.1	6816259.6			18.1
Road truck Road truck			6816265.5 6816269.5			18.2 15.4
Road truck			6816264.2			14.1
Road truck			6816250.6			14.1
Road truck			6816243.3			2.4
Road truck			6816243	2.5		16.2
Road truck			6816243.5			16.1
Road truck			6816244.1			16
Road truck			6816243.6			16.6
Road truck			6816242	2.5		16.4
Road truck			6816240.3			16.3
Road tru	UK	553499.8	6816238.4	2.3		16.1



Road truck	553557.8	6816240.6 2.5	17.4
Road truck	553633.7	6816230.4 2.5	17.2
Road truck	553723.4	6816218.5 2.5	16.9
Road truck	553787.5	6816209.9 2.5	10.5
Road truck	553819.1		13
Road truck	553843.8	6816169.6 2.5	7.3
HAUL TRUCK	553453.8	6816198.4 2.5	15.2
HAUL TRUCK	553403.1	6816207.9 2.5	15.4
HAUL TRUCK	553358.3	6816216.3 2.5	15.6
HAUL TRUCK		6816223.8 2.5	15.7
HAUL TRUCK		6816230.6 2.5	15.8
HAUL TRUCK	553258.2		12.5
HAUL TRUCK	553466.8		9.6
HAUL TRUCK	553455.7		9.6
HAUL TRUCK	553444.8		9.6
HAUL TRUCK		6816146.2 2.5	9.6
HAUL TRUCK	553423.2		9.6
HAUL TRUCK		6816125.5 2.5	9.6
HAUL TRUCK	553402.1		9.6
HAUL TRUCK	553391.7		9.6
HAUL TRUCK	553381.3		9.6
HAUL TRUCK	553371		9.6
HAUL TRUCK	553360.8	6816075.1 2.5	9.6
HAUL TRUCK	553350.6		9.6
HAUL TRUCK	553340.5		9.6
HAUL TRUCK	553330.5		9.6
HAUL TRUCK	553320.4		9.6
HAUL TRUCK	553310.4	6816026.2 2.5	9.6
HAUL TRUCK	553300.5		9.6
HAUL TRUCK	553290.5		9.6
HAUL TRUCK	553280.6		9.6
HAUL TRUCK	553270.6	6815987.6 2.5	9.6
HAUL TRUCK	553260.7	6815977.9 2.5	9.6
HAUL TRUCK	553250.8	6815968.3 2.5	9.6
HAUL TRUCK	553240.8		9.6
HAUL TRUCK	553230.9		9.6
HAUL TRUCK	553220.9	13 - 11 - 11 - 11	9.6
HAUL TRUCK		6815929.5 2.5	9.6
HAUL TRUCK		6815924.3 2.5	-1.7
HAUL TRUCK		6815906.8 2.5	5.8
EXCAVATOR	553260.3	6816148.2 2.5	32.2

NORTHWEST CORNER

File:Z:\CRG ACOUSTICS\ACOUSTIC JOBS\10453a Sandmine Lennox Head\10453a_sandmine april 2012 w.PEN

File Description:Data file covering west Tuesday 05 Mar, 2013 at 13:05:57

Environmental Calculations

All point and line sources included. Line source segmentation angle: 1 degrees. Calculations for specified meteorology. Noise level results are the logarithmic addition of all the noise sources

Noise level results incorporate the incoherent ground reflection algorithm

Meteorology:
Wind speed 0.0 (m/s) Wind direction 0 Mast height 10.0 (m)
Temperature 20.0 (C) Temperature Gradient 0.0 (C/100m) Humidity 50.0 (%)
Surface Roughness of terrain 0.023000000 (m) Zero plane offset 0.080000000 (m)

Process V Poss V Poss Height Ground Noise Level

Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
R1	553772.1	6815867.2	2 1.8	3.1		38
Source	X Posn	Y Posn	Height		Noise Lev	el
	(m)	(m)	(m)		(dB(A))	
EXCAV	'ATOR	553236.5	6816087.4	2.5		27.1
Generate	or	553406.4	6816251.5	1		22.1
LOADE	R	553327.3	6816183.5	2.5		23
LOADE	R	553284.2	6816216.4	2.5		20.1
LOADE	R	553258.3	6816248.7	2.5		21.3
Road tru	ıck	553382	6816257.5	2.5		16.9
Road tru	ick	553365.8	6816259.8	2.5		16.8
Road tru	ick	553348.8	6816262.2	2.5		16.8
Road tru	ick	553330.8	6816264.7	2.5		16.7
Road tru	ick	553312	6816267.4	2.5		16.7
Road tru	ıck	553295.1	6816269.8	2.5		9.7
Road tru	ick	553288.9	6816262.9	2.5		10.1
Road tru	ick	553290.6	6816248.9	2.5		9.2
Road tru	ick	553299.7	6816243	2.5		10.6



Road truck	553315.9	6816243.3 2.5	10.7
Road truck	553331.4	6816243.6 2.5	10.7
Road truck	553346.3		16.2
Road truck	553360.5		16.2
Road truck	553374.8	6816244 2.5	16.6
Road truck	553389.1	6816243.4 2.5	16.6
Road truck	553402.8	6816242.8 2.5	16.7
Road truck	553416.1	6816242.2 2.5	16.7
Road truck	553428.8	6816241.6 2.5	16.8
Road truck	553441.2	6816241 2.5	16.8
Road truck	553453.1	6816240.5 2.5	16.8
Road truck	553464.6	6816240 2.5	16.9
Road truck	553475.8	6816239.5 2.5	16.9
Road truck	553486.6		16.9
Road truck	553497.2	6816238.5 2.5	16.9
Road truck	553507.4	6816238.1 2.5	17
Road truck	553517.4		17
Road truck	553522.3	6816237.4 2.5	-10.8
Road truck	553529.2	6816244.4 2.5	17.2
Road truck	553539.3	6816243,1 2,5	17.3
Road truck	553549	6816241.8 2.5	17.3
Road truck	553558.5	6816240.5 2.5	17.4
Road truck	553567.7	6816239.2 2.5	17.4
Road truck	553576.8	6816238 2.5	17.4
Road truck	553585.5	6816236.9 2.5	17.4
Road truck	553594.1	6816235.7 2.5	17.4
Road truck	553602.5	6816234.6 2.5	17.4
Road truck	553610.7	6816233.5 2.5	17.5
Road truck	553618.7	6816232.4 2.5	17.5
Road truck	553626.6	6816231.4 2.5	17.5
Road truck	553634.3	6816230.4 2.5	17.5
Road truck	553641.9	6816229.3 2.5	17.5
Road truck	553649.3	6816228.4 2.5	17.5
Road truck	553656.6		17.5
Road truck	553663.8	6816226.4 2.5	17.5
Road truck	553670.9	6816225.5 2.5	17.5
Road truck	553677.8	6816224.5 2.5	17.6
Road truck	553684.7	6816223.6 2.5	17.6
Road truck	553691.5	6816222.7 2.5	17.6
Road truck	553698.2	6816221.8 2.5	17.6
			17.6
Road truck	553704.8	6816220.9 2.5	
Road truck	553711.3	6816220.1.2.5	17.6
Road truck	553717.8	6816219.2 2.5	17.6
Road truck	553724.1	6816218.4 2.5	17.6
Road truck	553730.5	6816217.5 2.5	17.7
Road truck	553736.7	6816216.7 2.5	17.7
Road truck	553743	6816215.8 2.5	17.7
		6816215 2.5	17.7
Road truck	553749.1		
Road truck	553755.3	6816214.2 2.5	17.7
Road truck	553761.4	6816213.4 2.5	17.7
Road truck	553767.4	6816212.6 2.5	17.7
Road truck	553773.5	6816211.8 2.5	17.7
Road truck	553779.4	6816211 2.5	17.7
Road truck	553785.4	6816210,2 2.5	17.7
Road truck	553791.4	6816209.4 2.5	17.8
Road truck	553797.3	6816208.6 2.5	17.8
Road truck	553800.4	6816208.2 2.5	3.1
Road truck	553803.3	6816205.7 2.5	18.7
Road truck	553808.7	6816200.8 2.5	18.8
Road truck	553814	6816196.1 2.5	18.8
Road truck	553819.2	6816191.5 2.5	18.8
Road truck	553824.2	6816187 2.5	18.8
Road truck	553829.2	6816182.6 2.5	18.8
Road truck	553834	6816178.3 2.5	18.9
Road truck	553838.8	6816174 2.5	18.9
Road truck	553843.4	6816169.9 2.5	18.9
Road truck	553847.4	6816166.3 2.5	17.7
HAUL TRUCK	553266.8	6816137.2 2.5	6.6
HAUL TRUCK	553263.4	6816127.7 2.5	6.7
HAUL TRUCK	553260.1	6816118.3 2.5	6.7
HAUL TRUCK	553256.8	6816108.8 2.5	6.6
HAUL TRUCK	553253.4	6816099.4 2.5	6.6
HAUL TRUCK		6816090 2.5	
HAUL IKUCK	553250.1	0010070 2.3	6.6



HAUL TRUCK 553246.8 HAUL TRUCK 553243.5		
	6816080.7 2.5	6.6
	6816071.4 2.5	6.6
HAUL TRUCK 553240.2	6816062 2.5	6.6
HAUL TRUCK 553237	6816052.7 2.5	6.6
		6.6
HAUL TRUCK 553230.4	6816034.1 2.5	6.6
HAUL TRUCK 553227.1	6816024.7 2.5	6.6
HAUL TRUCK 553223.8		6.6
HAUL TRUCK 553220.5	6816006 2.5	6.6
HAUL TRUCK 553217.1	6815996.5 2.5	6.6
HAUL TRUCK 553213.8		6.6
HAUL TRUCK 553210.4	6815977.6 2.5	6.6
HAUL TRUCK 553207.1	6815968 2.5	6.6
HAUL TRUCK 553203.7		6.6
HAUL TRUCK 553200.3	6815948.8 2.5	6.6
HAUL TRUCK 553196.8	6815939.1 2.5	6.6
HAUL TRUCK 553193.7		5.6
HAUL TRUCK 553475.4	6816194.3 2.5	15.8
HAUL TRUCK 553462.6	6816196.7 2.5	15.8
HAUL TRUCK 553449.1	6816199.3 2.5	15.7
HAUL TRUCK 553435	6816201.9 2.5	15.7
HAUL TRUCK 553420.1	6816204.7 2.5	15.6
HAUL TRUCK 553404.4		15.6
HAUL TRUCK 553387.8	6816210.8 2.5	15.6
HAUL TRUCK 553370.2		15.5
HAUL TRUCK 553351.5	6816217.6 2.5	11
HAUL TRUCK 553331.6	6816221.3 2.5	10.9
HAUL TRUCK 553310.4		10.8
HAUL TRUCK 553287.7	6816229.5 2.5	10.8
HAUL TRUCK 553263.6	6816234,1 2.5	9
HAUL TRUCK 553469.6		13.7
HAUL TRUCK 553464	6816175.8 2.5	13.7
HAUL TRUCK 553458.3	6816170.7 2.5	13.7
HAUL TRUCK 553452.7	6816165.5 2.5	13.7
HAUL TRUCK 553447	6816160.4 2.5	13.7
HAUL TRUCK 553441.4	6816155.2 2.5	13.7
HAUL TRUCK 553435.7		8.6
HAUL TRUCK 553429.9	6816144.7 2.5	8.6
HAUL TRUCK 553424.2	6816139.5 2.5	8.5
HAUL TRUCK 553418.4		8.6
HAUL TRUCK 553412.6	6816128.9 2.5	7.3
HAUL TRUCK 553406.7	6816123.5 2.5	6
HALIL TRUCK 553400 8	6816118 1 2 5	66
HAUL TRUCK 553400.8	6816118.1 2.5	6.6
HAUL TRUCK 553400.8 HAUL TRUCK 553394.8		6.6
HAUL TRUCK 553394.8	6816112.6 2.5	7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8	6816112.6 2.5 6816107.1 2.5	7 7.4
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7	6816107.1 2.5 6816101.6 2.5	7 7.4 7.7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5	7 7.4
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5	7 7.4 7.7 7.9
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6 HAUL TRUCK 553370.4	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5	7 7.4 7.7 7.9 8.1
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816084.6 2.5	7 7.4 7.7 7.9 8.1 8.2
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553357.7	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816084.6 2.5 6816078.7 2.5	7.4 7.7 7.9 8.1 8.2 8.1
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816084.6 2.5	7 7.4 7.7 7.9 8.1 8.2
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816084.6 2.5 6816078.7 2.5 6816072.9 2.5	7.4 7.7 7.9 8.1 8.2 8.1
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816084.6 2.5 6816078.7 2.5 6816072.9 2.5 6816066.9 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8 HAUL TRUCK 553338.1	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816084.6 2.5 6816072.9 2.5 6816066.9 2.5 6816060.8 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816084.6 2.5 6816078.7 2.5 6816072.9 2.5 6816066.9 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553376.6 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8 HAUL TRUCK 553338.1 HAUL TRUCK 553331.4	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816094.3 2.5 6816078.7 2.5 6816072.9 2.5 6816066.9 2.5 6816060.8 2.5 6816054.7 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8 7.8
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8 HAUL TRUCK 553338.1 HAUL TRUCK 553331.4 HAUL TRUCK 553331.4 HAUL TRUCK 553331.4	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816078.7 2.5 6816072.9 2.5 6816066.9 2.5 6816068.2.5 6816054.7 2.5 6816048.4 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8 7.8
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8 HAUL TRUCK 553331.4 HAUL TRUCK 55331.4 HAUL TRUCK 55331.4 HAUL TRUCK 55331.4 HAUL TRUCK 55331.4 HAUL TRUCK 55331.6	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816078.7 2.5 6816072.9 2.5 6816066.9 2.5 6816054.7 2.5 6816054.7 2.5 6816048.4 2.5 6816042.1 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8 7.8 7.8
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8 HAUL TRUCK 553338.1 HAUL TRUCK 553331.4 HAUL TRUCK 553331.4 HAUL TRUCK 553331.4	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816078.7 2.5 6816072.9 2.5 6816066.9 2.5 6816060.8 2.5 6816054.7 2.5 6816048.4 2.5 6816042.1 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8 7.8
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8 HAUL TRUCK 553338.1 HAUL TRUCK 55331.4 HAUL TRUCK 55331.4 HAUL TRUCK 55331.6 HAUL TRUCK 553310.6	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816073.7 2.5 6816072.9 2.5 6816060.8 2.5 6816060.8 2.5 6816042.1 2.5 6816042.1 2.5 6816042.1 2.5	7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8 7.8 7.8 7.8
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6 HAUL TRUCK 553370.4 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553338.1 HAUL TRUCK 553331.4 HAUL TRUCK 553311.4 HAUL TRUCK 553311.4 HAUL TRUCK 553311.6 HAUL TRUCK 553311.6 HAUL TRUCK 553310.6 HAUL TRUCK 553303.4	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816073.7 2.5 6816072.9 2.5 6816060.8 2.5 6816060.8 2.5 681604.7 2.5 6816042.1 2.5 6816035.6 2.5 6816035.6 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8 7.8 7.8 7.8 7.8
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8 HAUL TRUCK 553331.4 HAUL TRUCK 553312.6 HAUL TRUCK 553317.6 HAUL TRUCK 553310.6 HAUL TRUCK 553303.4 HAUL TRUCK 553303.4 HAUL TRUCK 553303.4	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816078.7 2.5 6816072.9 2.5 6816060.8 2.5 6816054.7 2.5 6816048.4 2.5 6816048.4 2.5 6816048.4 2.5 6816048.2 2.5 6816048.4 2.5 6816048.4 2.5 6816048.4 2.5 6816048.4 2.5 6816022.3 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.8
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6 HAUL TRUCK 553370.4 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553338.1 HAUL TRUCK 553331.4 HAUL TRUCK 553311.4 HAUL TRUCK 553311.4 HAUL TRUCK 553311.6 HAUL TRUCK 553311.6 HAUL TRUCK 553310.6 HAUL TRUCK 553303.4	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816073.7 2.5 6816072.9 2.5 6816060.8 2.5 6816060.8 2.5 681604.7 2.5 6816042.1 2.5 6816035.6 2.5 6816035.6 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8 7.8 7.8 7.8 7.8
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8 HAUL TRUCK 553338.1 HAUL TRUCK 55331.4 HAUL TRUCK 55331.6 HAUL TRUCK 553317.6 HAUL TRUCK 553310.6 HAUL TRUCK 553303.4 HAUL TRUCK 553303.4 HAUL TRUCK 553296 HAUL TRUCK 553296 HAUL TRUCK 553288.5	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816073.7 2.5 6816072.9 2.5 6816060.8 2.5 6816054.7 2.5 6816042.1 2.5 6816042.1 2.5 6816029 2.5 6816022.3 2.5 6816023.5 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8 7.8 7.8 7.8 7.8 7.7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553370.4 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8 HAUL TRUCK 553338.1 HAUL TRUCK 55331.4 HAUL TRUCK 55331.4 HAUL TRUCK 553317.6 HAUL TRUCK 553317.6 HAUL TRUCK 553310.6 HAUL TRUCK 553303.4 HAUL TRUCK 553303.4 HAUL TRUCK 553296 HAUL TRUCK 553296 HAUL TRUCK 553288.5 HAUL TRUCK 553280.9	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816078.7 2.5 6816072.9 2.5 6816060.8 2.5 6816054.7 2.5 6816042.1 2.5 6816042.1 2.5 6816022.3 2.5 6816022.3 2.5 6816022.3 2.5 6816015.5 2.5 6816008.5 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8 7.8 7.8 7.8 7.7 7.7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6 HAUL TRUCK 553376.4 HAUL TRUCK 553351.3 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8 HAUL TRUCK 553331.4 HAUL TRUCK 553311.4 HAUL TRUCK 553310.6 HAUL TRUCK 553310.6 HAUL TRUCK 553310.6 HAUL TRUCK 553280.9 HAUL TRUCK 553280.9 HAUL TRUCK 553280.9	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816078.7 2.5 6816072.9 2.5 681606.9 2.5 6816054.7 2.5 6816054.7 2.5 6816048.4 2.5 6816048.4 2.5 6816029 2.5 6816022.3 2.5 6816015.5 2.5 6816008.5 2.5 6816008.5 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8 7.8 7.8 7.8 7.7 7.7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553370.4 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8 HAUL TRUCK 553338.1 HAUL TRUCK 55331.4 HAUL TRUCK 55331.4 HAUL TRUCK 553317.6 HAUL TRUCK 553317.6 HAUL TRUCK 553310.6 HAUL TRUCK 553303.4 HAUL TRUCK 553303.4 HAUL TRUCK 553296 HAUL TRUCK 553296 HAUL TRUCK 553288.5 HAUL TRUCK 553280.9	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816078.7 2.5 6816072.9 2.5 6816060.8 2.5 6816054.7 2.5 6816042.1 2.5 6816042.1 2.5 6816022.3 2.5 6816022.3 2.5 6816022.3 2.5 6816015.5 2.5 6816008.5 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8 7.8 7.8 7.8 7.7 7.7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553351.3 HAUL TRUCK 553351.3 HAUL TRUCK 553331.4 HAUL TRUCK 55331.4 HAUL TRUCK 55331.4 HAUL TRUCK 55331.6 HAUL TRUCK 553303.4 HAUL TRUCK 553303.4 HAUL TRUCK 553296 HAUL TRUCK 553288.5 HAUL TRUCK 553288.5 HAUL TRUCK 553280.9 HAUL TRUCK 553273.1 HAUL TRUCK 553273.1	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816084.6 2.5 6816078.7 2.5 6816072.9 2.5 6816072.9 2.5 6816054.7 2.5 6816048.4 2.5 6816042.1 2.5 6816022.3 2.5 6816022.3 2.5 6816022.3 2.5 6816008.5 2.5 6816008.5 2.5 6816001.3 2.5 6815994 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.9 7.8 7.8 7.8 7.7 7.7 7.7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553331.4 HAUL TRUCK 553314.8 HAUL TRUCK 553314.6 HAUL TRUCK 553317.6 HAUL TRUCK 55331.6 HAUL TRUCK 55303.4 HAUL TRUCK 553303.4 HAUL TRUCK 553296 HAUL TRUCK 55328.5 HAUL TRUCK 55328.5 HAUL TRUCK 55328.5 HAUL TRUCK 553280.9 HAUL TRUCK 553265.1 HAUL TRUCK 553265.1	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816078.7 2.5 6816072.9 2.5 6816072.9 2.5 6816066.9 2.5 6816054.7 2.5 6816042.1 2.5 6816022.3 2.5 6816022.3 2.5 6816008.5 2.5 6816008.5 2.5 6816008.5 2.5 6816001.3 2.5 6815994 2.5 6815994 2.5 6815986.6 2.5	7 7.4 7.7 7.9 8.1 8.2 8.8 7.8 7.8 7.8 7.8 7.8 7.7 7.7 7.7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553351.3 HAUL TRUCK 553351.3 HAUL TRUCK 553338.1 HAUL TRUCK 553314.8 HAUL TRUCK 55331.4 HAUL TRUCK 55331.4 HAUL TRUCK 55331.6 HAUL TRUCK 55331.6 HAUL TRUCK 55330.3 HAUL TRUCK 553296 HAUL TRUCK 553280.9 HAUL TRUCK 553273.1 HAUL TRUCK 553273.1 HAUL TRUCK 553273.1 HAUL TRUCK 55326.9 HAUL TRUCK 55326.9 HAUL TRUCK 55326.9	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816078.7 2.5 6816072.9 2.5 6816072.9 2.5 6816066.9 2.5 6816054.7 2.5 6816042.1 2.5 6816022.3 2.5 6816015.5 2.5 6816015.5 2.5 6816008.5 2.5 6816008.5 2.5 6816013 2.5 6816015.5 2.5 6816015.5 2.5 6816013 2.5 6816094 2.5 6816095 2.5 6816015.5 2.5 6816015.5 2.5 6816015.5 2.5 6816015.5 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.8 7.8 7.8 7.8 7.8 7.7 7.7 7.7 7.7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553331.4 HAUL TRUCK 553314.8 HAUL TRUCK 553314.6 HAUL TRUCK 553317.6 HAUL TRUCK 55331.6 HAUL TRUCK 55303.4 HAUL TRUCK 553303.4 HAUL TRUCK 553296 HAUL TRUCK 55328.5 HAUL TRUCK 55328.5 HAUL TRUCK 55328.5 HAUL TRUCK 553280.9 HAUL TRUCK 553265.1 HAUL TRUCK 553265.1	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816078.7 2.5 6816072.9 2.5 6816072.9 2.5 6816066.9 2.5 6816054.7 2.5 6816042.1 2.5 6816022.3 2.5 6816022.3 2.5 6816008.5 2.5 6816008.5 2.5 6816008.5 2.5 6816001.3 2.5 6815994 2.5 6815994 2.5 6815986.6 2.5	7 7.4 7.7 7.9 8.1 8.2 8.8 7.8 7.8 7.8 7.8 7.8 7.7 7.7 7.7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553370.4 HAUL TRUCK 553351.3 HAUL TRUCK 553351.3 HAUL TRUCK 553331.4 HAUL TRUCK 553331.4 HAUL TRUCK 55331.4 HAUL TRUCK 55331.6 HAUL TRUCK 55331.6 HAUL TRUCK 55330.3 HAUL TRUCK 553296 HAUL TRUCK 553280.9 HAUL TRUCK 553280.9 HAUL TRUCK 553265.1 HAUL TRUCK 553265.1	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816078.7 2.5 6816072.9 2.5 6816072.9 2.5 6816066.9 2.5 6816054.7 2.5 6816042.1 2.5 6816022.3 2.5 681602.3 2.5 6816015.5 2.5 6816015.5 2.5 6816015.5 2.5 6816015.5 2.5 6816015.5 2.5 6816015.5 2.5 6816015.5 2.5 6816015.5 2.5 6816017.9 2.5 6815994 2.5 6815978.9 2.5 6815978.9 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.8 7.8 7.8 7.8 7.7 7.7 7.7 7.7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553370.4 HAUL TRUCK 553351.3 HAUL TRUCK 553351.3 HAUL TRUCK 553331.4 HAUL TRUCK 553331.4 HAUL TRUCK 55331.4 HAUL TRUCK 55331.6 HAUL TRUCK 553317.6 HAUL TRUCK 55331.6 HAUL TRUCK 55330.3 HAUL TRUCK 553280.9 HAUL TRUCK 553280.9 HAUL TRUCK 553265.1 HAUL TRUCK 553265.1 HAUL TRUCK 553265.1 HAUL TRUCK 553265.1 HAUL TRUCK 553248.6 HAUL TRUCK 553248.6 HAUL TRUCK 553240 HAUL TRUCK 553231.2	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816073.7 2.5 6816072.9 2.5 6816066.9 2.5 6816054.7 2.5 6816042.1 2.5 6816042.1 2.5 6816022.3 2.5 6816015.5 2.5 6816015.5 2.5 6816013.5 2.5 6816013.2 5 6815994 2.5 6815994 2.5 6815978.9 2.5 6815971.1 2.5 6815963 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.8 7.8 7.8 7.8 7.8 7.7 7.7 7.7 7.7 7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553370.4 HAUL TRUCK 553351.3 HAUL TRUCK 553351.3 HAUL TRUCK 553331.4 HAUL TRUCK 553331.4 HAUL TRUCK 553311.6 HAUL TRUCK 553310.6 HAUL TRUCK 553303.4 HAUL TRUCK 553296 HAUL TRUCK 553288.5 HAUL TRUCK 553288.5 HAUL TRUCK 553280.9 HAUL TRUCK 55326.1 HAUL TRUCK 553256.9 HAUL TRUCK 553256.9 HAUL TRUCK 553256.9 HAUL TRUCK 553240 HAUL TRUCK 553240 HAUL TRUCK 55321.2 HAUL TRUCK 553231.2	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816078.7 2.5 6816072.9 2.5 6816060.9 2.5 6816060.8 2.5 681604.7 2.5 6816042.1 2.5 6816029 2.5 6816022.3 2.5 6816015.5 2.5 6816001.3 2.5 6815994 2.5 6815994 2.5 6815978.9 2.5 6815971.1 2.5 6815963 2.5 6815954.8 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.8 7.8 7.8 7.8 7.8 7.7 7.7 7.7 7.7 7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553370.4 HAUL TRUCK 553370.4 HAUL TRUCK 553351.3 HAUL TRUCK 553351.3 HAUL TRUCK 553331.4 HAUL TRUCK 553331.4 HAUL TRUCK 55331.4 HAUL TRUCK 55331.6 HAUL TRUCK 553317.6 HAUL TRUCK 55331.6 HAUL TRUCK 55330.3 HAUL TRUCK 553280.9 HAUL TRUCK 553280.9 HAUL TRUCK 553265.1 HAUL TRUCK 553265.1 HAUL TRUCK 553265.1 HAUL TRUCK 553265.1 HAUL TRUCK 553248.6 HAUL TRUCK 553248.6 HAUL TRUCK 553240 HAUL TRUCK 553231.2	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816073.7 2.5 6816072.9 2.5 6816066.9 2.5 6816054.7 2.5 6816042.1 2.5 6816042.1 2.5 6816022.3 2.5 6816015.5 2.5 6816015.5 2.5 6816013.5 2.5 6816013.2 5 6815994 2.5 6815994 2.5 6815978.9 2.5 6815971.1 2.5 6815963 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.8 7.8 7.8 7.8 7.8 7.7 7.7 7.7 7.7 7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6 HAUL TRUCK 553370.4 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553344.8 HAUL TRUCK 553338.1 HAUL TRUCK 553331.4 HAUL TRUCK 553311.6 HAUL TRUCK 553310.6 HAUL TRUCK 553303.4 HAUL TRUCK 553296 HAUL TRUCK 553296 HAUL TRUCK 553288.5 HAUL TRUCK 553288.5 HAUL TRUCK 553280.9 HAUL TRUCK 553265.1 HAUL TRUCK 553240.6 HAUL TRUCK 553221.2 HAUL TRUCK 553221.2	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816073.7 2.5 6816072.9 2.5 6816060.9 2.5 6816060.8 2.5 681604.7 2.5 6816042.1 2.5 6816022.3 2.5 6816022.3 2.5 6816015.5 2.5 6816001.3 2.5 6815994 2.5 6815994 2.5 6815978.9 2.5 6815978.9 2.5 6815963 2.5 6815954.8 2.5 6815946.3 2.5	7 7.4 7.7 7.9 8.1 8.2 8.1 8 7.8 7.8 7.8 7.8 7.7 7.7 7.7 7.7 7.7 7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6 HAUL TRUCK 553370.4 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553341.8 HAUL TRUCK 553338.1 HAUL TRUCK 553338.1 HAUL TRUCK 553311.6 HAUL TRUCK 553310.6 HAUL TRUCK 553310.6 HAUL TRUCK 553296 HAUL TRUCK 553296 HAUL TRUCK 553296 HAUL TRUCK 553288.5 HAUL TRUCK 553280.9 HAUL TRUCK 553265.1 HAUL TRUCK 553265.1 HAUL TRUCK 553240.6 HAUL TRUCK 553221.2 HAUL TRUCK 553221.2 HAUL TRUCK 553221.2 HAUL TRUCK 553212.8	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816073.7 2.5 6816072.9 2.5 6816060.8 2.5 6816060.8 2.5 681604.7 2.5 681604.1 2.5 681602.3 2.5 681602.3 2.5 6816015.5 2.5 6816008.5 2.5 6816008.5 2.5 6815994 2.5 6815998.6 2.5 6815978.9 2.5 6815978.9 2.5 6815963 2.5 6815954.8 2.5 6815946.3 2.5 6815946.3 2.5	7 7.4 7.7 7.9 8.1 8.2 8 7.8 7.8 7.8 7.7 7.7 7.7 7.7 7.7 7.7 7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6 HAUL TRUCK 553370.4 HAUL TRUCK 553364.1 HAUL TRUCK 553351.3 HAUL TRUCK 553351.3 HAUL TRUCK 553351.3 HAUL TRUCK 553311.4 HAUL TRUCK 55331.4 HAUL TRUCK 55328.6 HAUL TRUCK 553296 HAUL TRUCK 553296 HAUL TRUCK 553288.5 HAUL TRUCK 553288.5 HAUL TRUCK 553280.9 HAUL TRUCK 553265.1 HAUL TRUCK 553240.9 HAUL TRUCK 553240.9 HAUL TRUCK 553240.9 HAUL TRUCK 55321.2 HAUL TRUCK 55321.2 HAUL TRUCK 55321.2 HAUL TRUCK 55321.2 HAUL TRUCK 55321.3 HAUL TRUCK 553203.3 HAUL TRUCK 553203.3	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816078.7 2.5 6816072.9 2.5 6816072.9 2.5 6816054.7 2.5 6816054.7 2.5 6816042.1 2.5 6816022.3 2.5 6816022.3 2.5 6816022.3 2.5 6816008.5 2.5 6816008.5 2.5 6815994 2.5 6815978.9 2.5 6815971.1 2.5 6815954.8 2.5 6815954.8 2.5 6815954.8 2.5 6815975.5 2.5 6815975.5 2.5 6815975.5 2.5 6815975.5 2.5	7 7.4 7.7 7.9 8.1 8.2 8.7 8.8 7.8 7.8 7.8 7.7 7.7 7.7 7.7 7.7
HAUL TRUCK 553394.8 HAUL TRUCK 553388.8 HAUL TRUCK 553382.7 HAUL TRUCK 553376.6 HAUL TRUCK 553370.4 HAUL TRUCK 553357.7 HAUL TRUCK 553351.3 HAUL TRUCK 553341.8 HAUL TRUCK 553338.1 HAUL TRUCK 553338.1 HAUL TRUCK 553311.6 HAUL TRUCK 553310.6 HAUL TRUCK 553310.6 HAUL TRUCK 553296 HAUL TRUCK 553296 HAUL TRUCK 553296 HAUL TRUCK 553288.5 HAUL TRUCK 553280.9 HAUL TRUCK 553265.1 HAUL TRUCK 553265.1 HAUL TRUCK 553240.6 HAUL TRUCK 553221.2 HAUL TRUCK 553221.2 HAUL TRUCK 553221.2 HAUL TRUCK 553212.8	6816112.6 2.5 6816107.1 2.5 6816101.6 2.5 6816096 2.5 6816090.3 2.5 6816073.7 2.5 6816072.9 2.5 6816060.8 2.5 6816060.8 2.5 681604.7 2.5 681604.1 2.5 681602.3 2.5 681602.3 2.5 6816015.5 2.5 6816008.5 2.5 6816008.5 2.5 6815994 2.5 6815998.6 2.5 6815978.9 2.5 6815978.9 2.5 6815963 2.5 6815954.8 2.5 6815946.3 2.5 6815946.3 2.5	7 7.4 7.7 7.9 8.1 8.2 8 7.8 7.8 7.8 7.7 7.7 7.7 7.7 7.7 7.7 7



Receptor	X Posn	Y Posn	Height	Ground		Noise Level
R2A	(m)	(m)	(m)	(m)		(dB(A))
Source	553848.7 X Posn	6815742.3 Y Posn	Height	3.3	Noise Leve	34.7
Source	(m)	(m)	(m)		(dB(A))	1
EXCAV		553236.5	6816087.4	2.5		25.5
Generate		553406.4				19.9
LOADE	R	553326.9				22.9
LOADE	R	553275.4	6816227.4	2.5		22.1
LOADE		553248.4				14.8
Road tru		553380.6				8
Road tru Road tru		553361.3				8.9
Road tru		553341.2 553320.2	6816263.3 6816266.2			9.5 9.9
Road tru		553298.8	6816269.3			9.7
Road tru		553289.2	6816260.5			9.6
Road tru		553290.9	6816246.6			5.4
Road tru	ck	553300.8	6816243	2.5		9.5
Road tru		553319.3	6816243.4			9.5
Road tru		553337.1	6816243.7			9.5
Road tru		553354.3	6816244.1			9.1
Road tru		553365	6816244.3			3.4
Road tru Road tru		553376.1 553393.1	6816244 6816243.2	2.5		8.7 7.7
Road tru		553409.4	6816242.5			10
Road tru		553425.3	6816241.8			14.9
Road true		553440.6				14.9
Road true	ck	553455.5				14.9
Road true	ck	553469.9	6816239.7	2.5		15
Road true		553483.9	6816239.1	2.5		15
Road true			6816238.5			5.9
Road true		553510.7				5.9
Road true Road true		553519.8				2.9
Road true		553530.8 553544.1	6816244.2 6816242.4			7.1 7.5
Road true			6816240.7			7.5
Road true		553569.4		2.5		7.6
Road true	ck		6816237.4			7.5
Road true	ck	553593.5	6816235.8	2.5		15.5
Road true		553605	6816234.3			11.1
Road true			6816232.8			LF
Road true			6816231.3			11
Road true Road true		553638.3	6816229.8 6816228.4			15.6 15.6
Road truc		553659.3		2.5		15.6
Road true			6816225.7			15.6
Road true		553679.5	6816224.3			5.7
Road true	k	553689.3	6816223	2.5	1	15.7
Road truc	:k	553698.9	6816221.7	2.5		5.7
Road truc			6816220.5			5.7
Road truc			6816219.2			5.7
Road truc Road truc				2.5		5.8
Road truc			6816216.8 6816215.6			.5.8 .5.8
Road truc			6816214.4			5.8
Road truc			6816213.2			5.8
Road truc	k			2.5		5.9
Road truc	k	553780	6816210.9	2.5	1	5.9
Road truc			6816209.8			5.9
Road truc			6816208.7			5.6
Road truc			6816204.2			7.5
Road true Road true			6816196.4 6816188.9			7.6 7.6
Road true			6816181.7			7.7
Road true			6816174.7			7.7
Road truc	k			2.5		7.6
HAUL TI				2.5	6	
HAUL TI			6816124.1		6	
HAUL TI			6816112.3			.9
HAUL TI			6816100.6			.9
HAUL TH				2.5		.9
HAUL TI			6816077.4 2 6816065.9 2		6	.1
	200				O	56



HALL	TRUCK	553237.6	6816054.5	5 2 5		6.1
	TRUCK		6816043.			6.1
	TRUCK		6816031.8			6.2
	TRUCK		6816020.5			6.1
	TRUCK		6816009.3			6.8
HAUL	TRUCK		6815998			6.7
HAUL	TRUCK	553213.7	6815986.8	3 2.5		6.6
HAUL	TRUCK	553209.8	6815975.6	5 2.5		6.5
HAUL	TRUCK	553205.8	6815964.4	12.5		6.4
	TRUCK		6815953.2			6.3
	TRUCK			2.5		6.2
	TRUCK		6815931.4			5.5
	TRUCK		6816194.6			13.8
HAUL	TRUCK	553457.7	6816197.7	2.5		9.3
HAUL	TRUCK	553440.9	6816200.8	3 2.5		9.3
HAUL.	TRUCK	553423.3	6816204.1	2.5		7.8
HAUL	TRUCK	553404.8	6816207.6	2.5		8.4
HAUL	TRUCK	553385.5	6816211.2	2.5		8.9
HAUL	TRUCK	553365.1	6816215	2.5		9.6
	TRUCK	553343 7	6816219	2.5		9.6
	TRUCK	553321	6816223	2.5		9.5
		553321	6016223.3	2.5		
	TRUCK	553271	0810227.0	2.5		9.5
	TRUCK	5532/1.6	6816232.6	2.5		9.5
HAUL	TRUCK	553254.6	6816235.7	2.5		3.8
	TRUCK	553468.7	6816180.1	2.5		7.4
HAUL	TRUCK	553461.2	6816197.7 6816200.8 6816204.1 6816207.6 6816211.2 6816215 6816227.8 6816227.8 6816232.6 6816235.7 6816180.1 6816173.3 6816166.5	2.5		6.3
HAUL	TRUCK	553453.7	6816166.5	2.5		6.1
HAUL	TRUCK	553446.2	6816159.6	2.5		6.8
			6816152.8			7.2
HALI	TRUCK TRUCK	553/31 3	6816146			7.4
HALII	TRUCK	552422.9	6816139.1			7.4
HAUL	TRUCK TRUCK TRUCK	553423.0				
HAUL	TRUCK	553410.3	6816132.2			7.4
			6816125.3			7.5
	TRUCK		6816118.4	2.5		7.5
HAUL	TRUCK	553393.5	6816111.4	2.5		7.5
HAUL	TRUCK	553385.9	6816104.4	2.5		7.5
HAUL	TRUCK	553378.2	6816097.4	2.5		7.5
HADI	TRUCK	553370 4	6816090.3	2.5		7.4
TTATE	TRITOR	EE22626	6816083.2			7.2
HAIH	TRUCK TRUCK TRUCK	553354.7	6816076			7
HALII	TRUCK	5533357.7				
			6816068.7			6.8
HAUL	TRUCK	553338.8	6816061.4	2.5		6.6
HAUL	TRUCK TRUCK	553330.7	6816054	2.5		6.6
HAUL	TRUCK TRUCK	553322.5	6816046.6	2.5		6.6
HAUL	TRUCK	553314.3	6816039	2.5		6.7
HAUL	TRUCK	553305.9	6816031.4	2.5		6.8
HAUL	TRUCK	553297.5	6816023.6	2.5		6.8
	TRUCK	553288.9	6816015.8	2.5		6.8
	TRUCK	553280.2	6816007.9			6.9
	TRUCK	553271.4	6815999.8			6.8
	TRUCK					7.4
		553262.5	6815991.6			
	TRUCK	553253.4	6815983.3			7.4
	TRUCK	553244.1	6815974.9			7.3
HAUL	TRUCK	553234.7	6815966.3	2.5		7.2
HAUL	TRUCK	553225.1	6815957.5	2.5		7.1
HAUL'	TRUCK	553215.4	6815948.6	2.5		7
HAUL'	TRUCK	553205.4	6815939.5	2.5		6.8
	TRUCK	553196.9	6815931.7			4.9
EXCAV		553260.3	6816148.2			25.6
LAGA	AIOR	333200.3	0010140.2	2.3		23.0
Receptor	Y Poon	Y Posn	Height	Ground		Noise Level
receptor			-			
D 2D	(m)	(m)	(m)	(m)		(dB(A))
R2B	554002.8	6815828.9		4	37.5	36.2
Source	X Posn	Y Posn	Height		Noise Leve	et
	(m)	(m)	(m)		(dB(A))	
EXCAV	ATOR	553236.5	6816087.4	2.5		23.6
Generat	or	553406.4	6816251.5	1		18.8
LOADE	ER	553326.8	6816183.8	2.5		25.3
LOADE		553284.8	6816215.6			22.1
LOADE		553260.9	6816245.4			22
LOADE		553246.1	6816263.9			14.1
Road tn		553375.3	6816258.4			16
						15.9
Road tru	ICK	553344.6	6816262.8	4,3		13.7



Road truck	553311.5	6816267.5 2.5	15.7
Road truck	553291	6816270.4 2.5	8
Road truck	553289.1		12.8
Road truck	553290.8	and the second second second second	10.2
Road truck	553305	6816243.1 2.5	14.8
Road truck	553331.1	6816243.6 2.5	14.8
Road truck	553355.6	6816244.1 2.5	14.9
Road truck	553380.2		15.4
	553404.8		
Road truck			15.5
Road truck	553428	6816241.6 2.5	15.6
Road truck	553450	6816240.6 2.5	15.7
Road truck	553470.9	6816239.7 2.5	15.7
Road truck	553490.8	6816238.8 2.5	15.8
Road truck	553509.7		15.8
Road truck			
	553520.6		8.7
Road truck	553533.9		16.3
Road truck	553552.9	6816241.2 2.5	16.5
Road truck	553570.9	6816238.8 2.5	16.5
Road truck	553588	6816236.5 2.5	16.5
Road truck	553604.4		16.6
Road truck	553620.1	6816232.3 2.5	
			16.7
Road truck	553635.1	6816230.3 2.5	16.7
Road truck	553649.4		16.7
Road truck	553663.3	6816226.5 2.5	16.8
Road truck	553676.5	6816224.7 2.5	16.8
Road truck	553689.3		12.1
Road truck	553701.7		16,9
Road truck	553713.6		16.9
Road truck	553725.1		17
Road truck	553736.3	6816216.7 2.5	17
Road truck	553747.1	6816215.3 2.5	17
Road truck	553757.6	6816213.9 2.5	17.1
Road truck	553767.7	6816212.5 2.5	17.1
Road truck	553777.6	6816211.2 2.5	17.1
Road truck	553787.3	6816209.9 2.5	17.2
Road truck	553796.3	6816208.7 2.5	16.9
Road truck	553808.4	6816201.1 2.5	20.9
Road truck	553823.2	6816187.9 2.5	21
Road truck	553836.7	6816175.8 2.5	21.1
Road truck	553846.2	6816167.5 2.5	18.2
HAUL TRUCK	553266.2	6816135.4 2.5	9.9
HAUL TRUCK	553261.5	6816122.3 2.5	9.9
HAUL TRUCK	553256.9	6816109.2 2.5	5.5
HAUL TRUCK	553252.3	6816096.1 2.5	5.5
HAUL TRUCK	553247.6	6816082.9 2.5	4.5
HAUL TRUCK	553243	6816069.8 2.5	4.6
HAUL TRUCK	553238.4	6816056.7 2.5	5.3
HAUL TRUCK	553233.7	6816043.5 2.5	5.6
HAUL TRUCK	553229.1	6816030.3 2.5	5.6
HAUL TRUCK	553224.4	6816017.1 2.5	5.6
HAUL TRUCK	553219.7	6816003.8 2.5	5.5
HAUL TRUCK	553215	6815990.5 2.5	5.5
HAUL TRUCK	553210.3	6815977.1 2.5	5.5
HAUL TRUCK	553210.5		5.5
		6815963.6 2.5	
HAUL TRUCK	553200.7	6815950.1 2.5	3.7
HAUL TRUCK	553195.9	6815936.5 2.5	3.7
HAUL TRUCK	553192.9	6815928 2.5	-2.5
HAUL TRUCK	553468.1	6816195.7 2.5	15.2
HAUL TRUCK	553439.5	6816201.1 2.5	15.1
HAUL TRUCK	553408.3	6816206.9 2.5	15
HAUL TRUCK	553374.3		
		6816213.3 2.5	14.9
HAUL TRUCK	553337.1	6816220.3 2.5	14.9
HAUL TRUCK	553296	6816228 2.5	14.8
HAUL TRUCK	553262.6	6816234.3 2.5	11.7
HAUL TRUCK	553468.1	6816179.7 2.5	11.5
HAUL TRUCK	553459.6	6816171.9 2.5	11.5
HAUL TRUCK	553451	6816164 2,5	
			11.5
HAUL TRUCK	553442.3	6816156 2.5	11.5
HAUL TRUCK	553433.5	6816148 2.5	11.5
HAUL TRUCK	553424.6	6816139.8 2.5	11.5
HAUL TRUCK	553415.5	6816131.6 2.5	11.5
HAUL TRUCK	553406.4	6816123.2 2.5	11.4
HAUL TRUCK	553397.2	6816114.8 2.5	11.4
	555551.2	0010117.0 4.0	11.4



HAUL TRUCK	553387.8	6816106.2	25		11.4
HAUL TRUCK					
	553378.2				11.4
HAUL TRUCK	553368.5	6816088.6	2.5		11.3
HAUL TRUCK	553358.7	6816079.6	2.5		6.9
HAUL TRUCK	553348 7	6816070.4	25		6.7
HAUL TRUCK		6816061.1			6.6
HAUL TRUCK	553328.1	6816051.6	2.5		4.9
HAUL TRUCK	553317.5	6816041.9	25		5.9
HAUL TRUCK	553306.7		2.5		6.5
HAUL TRUCK		6816021.9	2.5		6.7
HAUL TRUCK	553284.3	6816011.6	2.5		6.7
HAUL TRUCK	553272.7	6816001	2.5		6.6
HAUL TRUCK					6.6
		6815990.2			
HAUL TRUCK	553248.8	6815979.1	2.5		6.6
HAUL TRUCK	553236.3	6815967.7	2.5		6.6
HAUL TRUCK	553223.5				6.6
HAUL TRUCK	553210.4				4.7
HAUL TRUCK	553198.6	6815933.3	2.5		3.5
EXCAVATOR	553260.3	6816148.2	2.5		29
Receptor X Posn	Y Posn	Unight	Ground		Noise Level
		Height	1.5		
(m)	(m)	(m)	(m)		(dB(A))
R3 553634.8	6815756.9	1.8	3.3		36.3
Source X Posn	Y Posn	Height		Noise Lev	/el
					701
(m)	(m)	(m)		(dB(A))	
EXCAVATOR	553236.5	6816087.4	2.5		29.4
Generator	553406.4	6816251.5	1		21.4
LOADER	553346	6816172.7			20.4
LOADER	553327.3	6816183.6	2.5		20.4
LOADER	553307	6816195.3	2.5		20.4
LOADER	553296.1				-1.4
LOADER	553271.8				24.7
Road truck	553384	6816257.2	2.5		9.9
Road truck	553372.1	6816258.9	2.5	1.5	9.9
Road truck	553359.9				9.9
Road truck	553347.4				9.9
Road truck	553334.5	6816264.2	2.5		9.9
Road truck	553321.3	6816266.1	2.5		9.9
Road truck	553307.6	6816268	2.5		9.9
Road truck	553294.4	6816269.9	2.5		9.4
Road truck	553289.4	6816259.2	2.5		12
Road truck	553291	6816245,4			5.9
Road truck	553297.6	6816242.9	2.5		9.7
Road truck	553309.8	6816243.2	2.5		9.7
Road truck	553321.8	6816243.4	2.5		9.7
Road truck	553333.5				9.7
Road truck	553345	6816243.9			9.7
Road truck	553356.3	6816244.1	2.5		9.7
Road truck	553364.6	6816244.3	2.5		6.7
Road truck	553373	6816244.1			9.8
Road truck	553384.2	6816243.6			9.8
Road truck	553395.1	6816243.1	2.5		9.8
Road truck	553405.7	6816242.6	2.5		9.8
Road truck	553416.2	6816242.2			9.7
Road truck	553426.5				9.7
Road truck	553436.7	6816241.2	2.5		10
Road truck	553446.7	6816240.8	2.5		10
Road truck	553456.5	6816240.3			10
Road truck	553466.2	6816239.9			10
Road truck	553475.7	6816239.5	2.5		10
Road truck	553485.1	6816239.1	2.5		10
Road truck	553494.4	6816238.6			10
Road truck	553503.6	6816238.2			10
Road truck	553512.7	6816237.8	2.5		10
Road truck	553519.7	6816237.5	2.5		7.6
					9.9
Road truck	553528.7	6816244.5			
Road truck	553537.8	6816243.2	2.5		9.8
Road truck	553546.8	6816242	2.5		10.2
Road truck	553555.7	6816240.9			10.2
Road truck	553564.6	6816239.7			10.3
Road truck	553573.3	6816238.5	2.5		10.3
Road truck	553581.9	6816237.4	2.5		10.2
Road truck	553590.5	6816236.2			10.1
. tous truck	200070.0	0.010100.2			



Road truck	553599	6816235.1 2.5		10.1
Road truck	553607.5	6816233.9 2.5		10.1
Road truck		6816232.8 2.5		10.2
	553624.2			
Road truck				10.2
Road truck	553632.5			10.2
Road truck	553640.8			10
Road truck	553649	6816228.4 2.5		10.1
Road truck	553657.2	6816227.3 2.5		10.2
Road truck	553665.3	6816226.2 2.5		10.3
Road truck	553673.5			10.3
		6816224 2.5		
Road truck				10.4
Road truck	553689.7			10.5
Road truck	553697.8			10.5
Road truck	553706	6816220.8 2.5		10.5
Road truck	553714.1	6816219.7 2.5		9.9
Road truck	553722.2	6816218.6 2.5		8.8
Road truck	553730.4			15.7
	553738.5			
Road truck				15.7
Road truck	553746.7	6816215.3 2.5		15.8
Road truck	553755	6816214.2 2.5		15.8
Road truck	553763.2	6816213.1 2.5		15.8
Road truck	553771.5	6816212 2.5		15.8
Road truck	553779.9	6816210.9 2.5		15.8
Road truck	553788.3	6816209.8 2.5		15.8
Road truck	553796.5			
				15.5
Road truck	553803.8			16
Road truck	553810.5	6816199.2 2.5		16
Road truck	553817	6816193.4 2.5		16
Road truck	553823.5	6816187.6 2.5		16
Road truck	553829.9			16.1
Road truck		6816176.3 2.5		16.1
Road truck	553842.6			16.1
Road truck	553847.4			13.6
HAUL TRUCK	553266.7	6816137.1 2.5		7.8
HAUL TRUCK	553263.3	6816127.5 2.5		8.7
HAUL TRUCK	553260	6816118 2.5		8.7
HAUL TRUCK	553256.7	6816108.6 2.5		8.7
HAUL TRUCK	553253.5			8.7
HAUL TRUCK	553250.3	6816090.4 2.5		8.7
HAUL TRUCK	553247.1	6816081.4 2.5		8.7
HAUL TRUCK	553244	6816072.6 2.5		8.7
HAUL TRUCK	553240.9	6816063.9 2.5		8.6
HAUL TRUCK	553237.9			8.6
HAUL TRUCK	553234.9	6816046.8 2.5		8.4
HAUL TRUCK	553231.9			8.5
HAUL TRUCK	553228.9	6816030 2.5		8.5
HAUL TRUCK	553226	6816021.7 2.5		8.5
HAUL TRUCK	553223.1	6816013.5 2.5		8.5
HAUL TRUCK	553220.2	6816005.3 2.5		8.4
HAUL TRUCK	553217.4	6815997.2 2.5		8.4
HAUL TRUCK	553214.5			8.3
		6815989.2 2.5		
HAUL TRUCK	553211.7	6815981.2 2.5		8.3
HAUL TRUCK	553208.9	6815973.3 2.5		8.2
HAUL TRUCK	553206.1	6815965.3 2.5		8.2
HAUL TRUCK	553203.3	6815957.5 2.5		8.1
HAUL TRUCK	553200.6	6815949.6 2.5		8
HAUL TRUCK	553197.8	6815941.8 2.5		13.1
HAUL TRUCK	553197.8	6815934 2.5		13.1
HAUL TRUCK	553193	6815928.2 2.5		9.9
HAUL TRUCK	553477	6816194 2.5	9	9
HAUL TRUCK	553467.7	6816195.8 2.5	2)	9
HAUL TRUCK	553458.1	6816197.6 2.5		9
HAUL TRUCK	553448.4	6816199.4 2.5		8.7
HAUL TRUCK	553438.4	6816201.3 2.5		8.7
HAUL TRUCK	553428.1	6816203.2 2.5		8.7
HAUL TRUCK	553417.7	6816205.2 2.5		8.7
HAUL TRUCK	553406.9	6816207.2 2.5		8.8
HAUL TRUCK	553395.8	6816209.3 2.5		8.8
HAUL TRUCK	553384.5	6816211,4 2,5		8.8
HAUL TRUCK	553372.8	6816213.6 2.5		8.8
HAUL TRUCK				
	553360.7	6816215.9 2.5		9.2
HAUL TRUCK	553348.3	6816218.2 2.5		9.2
HAUL TRUCK	553335.4	6816220.6 2.5	9	9.2



HAUL						
	TRIICK	553322 2	6816223.	1 2 5		9.2
	TRUCK		6816225.			9.2
	TRUCK		6816228.3			9.2
HAUL'	TRUCK	553279.5	6816231.	1 2.5		9.2
HAUL'	TRUCK	553264.1	6816234	2.5		9.2
	TRUCK		6816235.9			4.4
	TRUCK		6816180.3			8.7
	TRUCK	553463	6816175	2.5		8.8
HAUL'	TRUCK	553456.8	6816169.3	3 2.5		8.5
HAUL '	TRUCK	553450.8	6816163.8	3 2.5		8.5
	TRUCK		6816158.3			8.6
	TRUCK		6816152.8			8.6
	TRUCK		6816147.4			8.6
HAUL'	TRUCK	553427	6816142.1	1 2.5		8.7
HAUL	TRUCK	553421.3	6816136.8	3 2.5		8.7
HALL	TRUCK		6816131.5			8.7
	TRUCK		6816126.3			8.8
	TRUCK	553404.2	6816121.2	2.5		8.8
HAUL	TRUCK	553398.5	6816116	2.5		8.8
HAUL*	TRUCK	553392.9	6816110.9	2.5		8.8
	TRUCK		6816105.8			8.8
	TRUCK	552201.9	6916100	2.5		8.8
HAUL	TRUCK	550051.0	6816100.8 6816095.7	2.3		
HAUL	TRUCK	5533/6.3	6816095.7	2.5		8.8
		553370.8	6816090.7	2.5		8.8
HAUL	TRUCK TRUCK		6816085.7			8.8
HAUL.	TRUCK	553359 8	6816080.7	125		8.6
	TRUCK		6816075.7			8.5
		553348.9	6016073.7	4.5		
	TRUCK					8.4
	TRUCK	553343.4	6816065.7	2.5		8.1
HAUL	FRUCK	553338	6816060.7	2.5		8.1
HAUL.	TRUCK	553332.5	6816055.6	2.5		9.1
LIAIII	TRUCK	552227	6816050.6			9.1
HAUL		553321.5				9.1
HAULT	TRUCK	553316	6816040.6	2.5		9.1
HAULT	TRUCK	553310.4	6816035.5	2.5		9.1
HAUL 7	CRLICK	553304.9				9.1
				2.0		7.1
				2.5		0.1
HAUL			6816025.3			9.1
HAUL 7	TRUCK	553293.7	6816020.2	2.5		9
HAUL 7	TRUCK			2.5		
HAUL 7	TRUCK TRUCK	553293.7 553288	6816020.2	2.5 2.5		9
HAUL T HAUL T HAUL T	TRUCK TRUCK TRUCK	553293.7 553288 553282.3	6816020.2 6816015 6816009.8	2.5 2.5 2.5		9 9 8.8
HAUL T HAUL T HAUL T HAUL T	TRUCK TRUCK TRUCK TRUCK	553293.7 553288 553282.3 553276.6	6816020.2 6816015 6816009.8 6816004.6	2.5 2.5 2.5 2.5		9 9 8.8 8.9
HAUL THAUL THAUL THAUL THAUL T	TRUCK TRUCK TRUCK TRUCK TRUCK	553293.7 553288 553282.3 553276.6 553270.8	6816020.2 6816015 6816009.8 6816004.6 6815999.3	2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9
HAUL THAUL THAUL THAUL THAUL THAUL THAUL THAUL T	TRUCK TRUCK TRUCK TRUCK TRUCK TRUCK TRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9	2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9
HAUL THAUL THAUL THAUL THAUL THAUL THAUL THAUL T	TRUCK TRUCK TRUCK TRUCK TRUCK	553293.7 553288 553282.3 553276.6 553270.8	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9	2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9
HAUL THAUL THAUL THAUL THAUL THAUL THAUL THAUL T	TRUCK TRUCK TRUCK TRUCK TRUCK TRUCK TRUCK TRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9
HAUL THAUL T	TRUCK TRUCK TRUCK TRUCK TRUCK TRUCK TRUCK TRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815983.9 6815983.1	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8
HAUL THAUL T	TRUCK TRUCK TRUCK TRUCK TRUCK TRUCK TRUCK TRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553247.2	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6 6815983.1 6815977.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8
HAUL THAUL T	TRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553247.2 553241.1	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6 6815983.1 6815977.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8 8.8
HAUL THAUL T	TRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553247.2 553241.1 553234.9	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815983.1 6815977.6 6815972.1 6815966.5	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8 8.7 8.7
HAUL THAUL T	FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553247.2 553241.1	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6 6815983.1 6815977.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8 8.7 8.7
HAUL THAUL T	FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553247.2 553241.1 553234.9	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815983.1 6815977.6 6815972.1 6815966.5	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8 8.7 8.7
HAUL THAUL T	FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK	553293.7 553288 553282.3 553276.6 553270.8 553259.1 553253.2 553253.2 553241.1 553234.9 553228.7	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815998.9 6815988.6 6815983.1 6815977.6 6815972.1 6815966.5 6815960.8	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8 8.7 8.7
HAUL THAUL T	FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK FRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553247.2 553234.9 553228.7 553222.4 553216	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815983.1 6815972.1 6815972.1 6815966.5 6815965.6 6815955	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.8 8.8 8.8 8.7 8.7 8.6 8.5 8.4
HAUL THAUL T	TRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553253.2 553247.2 553247.2 553241.1 553234.9 553228.7 553222.4 553216 553209.5	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815983.1 6815972.1 6815972.1 6815972.1 6815955 6815960.8	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.8 8.8 8.8 8.8
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553247.2 553241.1 553234.9 553222.4 553222.4 553216 553209.5 553202.9	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815988.6 6815983.1 6815977.6 6815972.1 6815966.5 6815955 6815943.2 6815943.2 6815943.2	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8
HAUL THAUL T	TRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553247.2 553241.1 553234.9 553222.4 553222.4 553216 553209.5 553202.9 553196.5	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815983.1 6815977.6 6815977.6 6815960.8 6815955 6815940.2 6815943.2 6815931.4	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.7 8.7 8.6 8.5 8.4 8.3 13.5 13.1
HAUL THAUL T	TRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553247.2 553241.1 553234.9 553222.4 553222.4 553216 553209.5 553202.9	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815988.6 6815983.1 6815977.6 6815972.1 6815966.5 6815955 6815943.2 6815943.2 6815943.2	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8
HAUL THAUL T	TRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553247.2 553241.1 553234.9 553222.4 553222.4 553216 553209.5 553202.9 553196.5	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815983.1 6815977.6 6815977.6 6815960.8 6815955 6815940.2 6815943.2 6815931.4	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.7 8.7 8.6 8.5 8.4 8.3 13.5 13.1
HAUL THAUL T	TRUCK	553293.7 553288 553282.3 553270.8 553270.8 553259.1 553259.1 553241.2 553241.1 553234.9 553222.4 553222.4 553220.5 553209.5 553202.9 553260.3	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6 6815972.1 6815972.1 6815960.8 6815955 6815949.2 6815943.2 6815943.2 6815943.2 6815943.2	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.7 8.7 8.6 8.5 8.4 8.3 13.5 13.1 28.2
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553270.8 553259.1 553253.2 553247.2 553241.1 553234.9 553222.4 553222.4 553220.5 553209.5 553202.9 553260.3 Y Posn	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6 6815972.1 6815972.1 6815976.5 6815943.2 6815943.2 6815937.2 6815931.4 6816148.2	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.7 8.7 8.6 8.5 8.4 8.3 113.5 13.1 28.2 Noise Level
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553241.1 553234.9 553228.7 553222.4 553202.9 553196.5 553202.9 553196.5 553260.3 Y Posn (m)	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6 6815983.1 6815977.6 6815972.1 6815965.5 6815960.8 6815955 6815949.2 6815937.2 6815937.2 Height (m)	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.7 8.7 8.6 8.5 8.4 8.3 13.5 13.1 228.2 Noise Level (dB(A))
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553241.1 553234.9 553222.4 553222.4 553202.9 553202.9 553196.5 553260.3 Y Posn (m) 6815469.6	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6 6815983.1 6815977.6 6815972.1 681596.5 681596.8 6815955 6815949.2 6815931.4 6816148.2 Height (m) 1.8	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553247.2 553241.1 553234.9 553222.4 553222.4 553202.9 553202.9 553260.3 Y Posn (m) 6815469.6 Y Posn	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815998.9 6815988.6 6815987.6 6815972.1 6815976.6 6815972.1 681596.5 6815949.2 6815943.2 6815931.4 6816148.2 Height (m) 1.8 Height	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve	9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553247.2 553247.2 553224.1 553234.9 553222.4 553220.9 553202.9 553260.3 Y Posn (m) 6815469.6 Y Posn (m)	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6 6815983.1 6815977.6 6815972.1 681596.5 681596.8 6815955 6815949.2 6815931.4 6816148.2 Height (m) 1.8	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5		9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553276.6 553270.8 553265 553259.1 553253.2 553247.2 553241.1 553234.9 553222.4 553222.4 553202.9 553202.9 553260.3 Y Posn (m) 6815469.6 Y Posn	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815998.9 6815988.6 6815987.6 6815972.1 6815976.6 6815972.1 681596.5 6815949.2 6815943.2 6815931.4 6816148.2 Height (m) 1.8 Height	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve (dB(A))	9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553265 553259.1 553253.2 553247.2 553247.2 553234.9 553222.4 553222.4 553202.9 553202.9 553260.3 Y Posn (m) 6815469.6 Y Posn (m) 553236.5	6816020.2 6816015 6816009.8 6816009.8 6816004.6 6815999.3 6815983.1 6815972.1 6815972.1 681596.5 6815949.2 6815943.2 6815931.4 6816148.2 Height (m) 1.8 Height (m) 6816087.4	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve	9 9 8.8 8.9 8.9 8.8 8.8 8.8 8.7 8.6 8.5 8.4 8.3 13.5 13.1 28.2 Noise Level (dB(A)) 34.6 1
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553265 553259.1 553253.2 553247.2 553247.2 553224.1 553234.9 553222.4 553202.9 553202.9 553196.5 553260.3 Y Posn (m) 6815469.6 Y Posn (m) 553236.5 5532406.4	6816020.2 6816015 6816009.8 6816009.8 6816004.6 6815999.3 6815983.1 6815972.1 6815972.1 6815972.1 6815973.2 6815943.2 6815943.2 6815943.2 6815943.2 6816148.2 Height (m) 1.8 Height (m) 6816087.4 6816087.4	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve	9 8.8 8.9 8.9 8.9 8.8 8.8 8.8 8.
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553265 553259.1 553253.2 553247.2 553247.2 553224.1 553228.7 553222.4 553202.9 553202.9 553260.3 Y Posn (m) 6815469.6 Y Posn (m) 553236.5 553240.4 553240.4	6816020.2 6816015 6816009.8 6816009.8 6816004.6 6815999.3 6815983.1 6815972.1 6815972.1 6815972.1 6815973.2 6815943.2 6815943.2 6815943.2 6815943.2 6816148.2 Height (m) 1.8 Height (m) 6816087.4 6816251.5 6816171.5	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve (dB(A))	9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553270.8 553259.1 553259.1 553253.2 553247.2 553241.1 553234.9 553222.4 553222.4 553216 553209.5 553202.9 553202.9 7 Posn (m) 6815469.6 Y Posn (m) 6815469.6 Y Posn (m) 553236.5 553406.4 553348 553348	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6 6815983.1 6815977.6 6815972.1 6815960.8 6815955 6815943.2 6815943.2 6815943.2 Height (m) 1.8 Height (m) 6816087.4 6816251.5 6816171.5 6816179.3	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve (dB(A))	9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553270.8 553259.1 553253.2 553247.2 553241.1 553234.9 553222.4 553222.4 553209.5 553202.9 553196.5 553260.3 Y Posn (m) 6815469.6 Y Posn (m) 6815469.6 553236.5 553406.4 553348 553341.5 553321	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6 6815983.1 6815972.1 6815972.1 681596.5 6815960.8 6815937.2 6815943.2 6815937.2 Height (m) 1.8 Height (m) 6816087.4 6816251.5 6816171.5 6816179.3 6816187.2	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve	9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.7 8.7 8.6 8.5 8.4 8.3 13.5 13.1 28.2 Noise Level (dB(A)) 34.6 1 29.1 15.8 16.9 16.9 16.9 16.9 16.9
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553270.8 553259.1 553253.2 553247.2 553241.1 553234.9 553222.4 553222.4 553209.5 553202.9 553196.5 553260.3 Y Posn (m) 6815469.6 Y Posn (m) 6815469.6 553236.5 553406.4 553348 553341.5 553321	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6 6815983.1 6815977.6 6815972.1 6815960.8 6815955 6815943.2 6815943.2 6815943.2 Height (m) 1.8 Height (m) 6816087.4 6816251.5 6816171.5 6816179.3	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve	9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.8
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553265 553259.1 553253.2 553241.1 553234.9 553228.7 553222.4 553216 553209.5 553209.5 553200.9 553260.3 Y Posn (m) 6815469.6 Y Posn (m) 553236.5 553406.4 553348 553348 553341.5 553307.5	6816020.2 6816015 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6 6815983.1 6815972.1 6815972.1 681596.5 6815949.2 6815937.2 6815937.2 Height (m) 1.8 Height (m) 6816087.4 6816251.5 6816171.5 6816179.3 6816187.2 6816195	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve (dB(A))	9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.7 8.7 8.6 8.5 8.4 8.3 13.5 13.1 28.2 Noise Level (dB(A)) 34.6 1 29.1 15.8 16.9 16.9 16.9 16.9 16.9
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553265 553259.1 553253.2 553241.1 553234.9 553222.4 553222.4 553202.9 553196.5 553202.9 553196.5 553260.3 Y Posn (m) 6815469.6 Y Posn (m) 553236.5 553334.5 553321 553337.5 553298.4	6816020.2 6816015 6816009.8 6816009.8 6816004.6 6815999.3 6815998.6 6815988.6 6815987.1 6815977.6 6815972.1 6815960.8 6815955 6815949.2 6815931.4 6816148.2 Height (m) 1.8 Height (m) 6816087.4 6816251.5 6816171.5 6816179.3 6816187.2 6816195 6816200.3	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve (dB(A))	9 9 8.8 8.9 8.9 8.9 8.9 8.8 8.8
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553265 553259.1 553253.2 553247.2 553241.1 553234.9 553222.4 553202.9 553202.9 553260.3 Y Posn (m) 6815469.6 Y Posn (m) 553236.5 553240.4 55324.1 55320.9 553196.5 553260.3	6816020.2 6816015 6816009.8 6816009.8 6816004.6 6815999.3 6815993.9 6815988.6 6815983.1 6815977.6 6815972.1 681596.5 6815960.8 6815955 6815949.2 6815931.4 6816148.2 Height (m) 1.8 Height (m) 6816087.4 6816251.5 6816171.5 6816179.3 6816187.2 6816195 6816200.3 6816208	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve (dB(A))	9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.7 8.7 8.6 8.5 8.4 8.3 13.5 13.1 228.2 Noise Level (dB(A)) 34.6 1 15.8 16.9 16.9 16.9 12.4 17.1
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553265 553259.1 553253.2 553247.2 553247.2 553241.1 553234.9 553222.4 553202.9 553202.9 553260.3 Y Posn (m) 6815469.6 Y Posn (m) 553236.5 553260.4 553236.5 553260.3	6816020.2 6816015 6816009.8 6816009.8 6816004.6 6815999.3 6815998.9 6815988.6 6815983.1 6815977.6 6815972.1 681596.5 6815960.8 6815955 6815949.2 6815931.4 6816148.2 Height (m) 1.8 Height (m) 6816087.4 6816251.5 6816171.5 6816179.3 6816187.2 6816195 6816200.3 6816208 6816220.7	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve (dB(A))	9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.7 8.7 8.6 8.5 8.4 8.3 13.5 13.1 28.2 Noise Level (dB(A)) 34.6 1 15.8 16.9 16.9 16.9 17.1 17.1
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553265 553259.1 553253.2 553241.1 553234.9 553222.4 553222.4 553202.9 553202.9 553260.3 Y Posn (m) 6815469.6 Y Posn (m) 553236.5 553240.4 55329.5 55326.3	6816020.2 6816015 6816009.8 6816009.8 6816004.6 6815999.3 6815998.9 6815983.1 6815977.6 6815972.1 681596.5 681596.8 6815955 6815949.2 6815931.4 6816148.2 Height (m) 1.8 Height (m) 6816087.4 6816251.5 6816171.5 6816179.3 6816187.2 6816195 6816200.3 6816208 6816220.7 6816233.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve (dB(A))	9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.7 8.7 8.6 8.5 8.4 8.3 13.5 13.1 28.2 Noise Level (dB(A)) 34.6 1 15.8 16.9 16.9 16.9 16.9 17.1 17.1 17.1
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553265 553259.1 553253.2 553241.1 553234.9 553222.4 553222.4 553202.9 553202.9 553260.3 Y Posn (m) 6815469.6 Y Posn (m) 553236.5 553240.4 55329.5 55326.3	6816020.2 6816015 6816009.8 6816009.8 6816004.6 6815999.3 6815998.9 6815988.6 6815983.1 6815977.6 6815972.1 681596.5 6815960.8 6815955 6815949.2 6815931.4 6816148.2 Height (m) 1.8 Height (m) 6816087.4 6816251.5 6816171.5 6816179.3 6816187.2 6816195 6816200.3 6816208 6816220.7	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve (dB(A))	9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.7 8.7 8.6 8.5 8.4 8.3 13.5 13.1 28.2 Noise Level (dB(A)) 34.6 1 15.8 16.9 16.9 16.9 17.1 17.1
HAUL THAUL T	FRUCK	553293.7 553288 553282.3 553270.8 553265 553259.1 553253.2 553241.1 553234.9 553222.4 553220.9 553202.9 553260.3 Y Posn (m) 6815469.6 Y Posn (m) 553236.5 553260.3 553260.3	6816020.2 6816015 6816009.8 6816009.8 6816004.6 6815999.3 6815998.9 6815983.1 6815977.6 6815972.1 681596.5 681596.8 6815955 6815949.2 6815931.4 6816148.2 Height (m) 1.8 Height (m) 6816087.4 6816251.5 6816171.5 6816179.3 6816187.2 6816195 6816200.3 6816208 6816220.7 6816233.6	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Noise Leve (dB(A))	9 9 8.8 8.9 8.9 8.9 8.8 8.8 8.7 8.7 8.6 8.5 8.4 8.3 13.5 13.1 28.2 Noise Level (dB(A)) 34.6 1 15.8 16.9 16.9 16.9 16.9 17.1 17.1 17.1



Road to	nek	553380.2	6816257.	725	10.7
			6816260.		
Road to					10.7
Road to			6816263.		10.8
Road tr		553324	6816265.		10.8
Road to	uck	553305.9	6816268.	3 2.5	10.8
Road tr	uck	553292.5	6816270.	2 2.5	7.9
Road tr	uck	553289.6	6816257.	8 2.5	12.6
Road tr			6816244		2.3
Road tr		553301	6816243		11.4
Road tr			6816243.		11.4
Road tr		553341	6816243.		11.3
Road tr	uck	553359.3	6816244.	2 2.5	10.2
Road tr	uck	553377.5	6816243.	9 2.5	11.1
Road tr	uck	553398.2	6816243	2.5	11
Road tr			6816242		ìi -
Road tr		553441.1			10.9
Road tr			6816240		10.9
Road tr	uck	553486.3	6816239	2.5	10.9
Road tr	uck	553509.9	6816237.	9 2.5	10.8
Road tr	uck	553522.1	6816237.	4 2.5	-8.6
Road tr	uck	5535354	6816243.	625	10.4
Road tr			6816240.		10.4
Road tr			6816237.		10.3
Road tr			6816234		10.3
Road tr	uck	553632	6816230.	7 2.5	10.2
Road tr	uck	553657.9	6816227.	2 2.5	10.2
Road tr	uck	553684.6	6816223.	6 2.5	10.1
Road tr		553712.1			10.1
_			6816216.3		10
Road tr		553770	6816212.		10
Road tr	uck	553792.8	6816209.	2 2.5	6.9
Road tr	uck	553808.8	6816200.	8 2.5	8.4
Road tr	nck	553825.5	6816185.9	9 2.5	8.4
Road to			6816171.6		7.9
	TRUCK	553259.9			14.8
	TRUCK	553244.1			15
	TRUCK	553230	6816033.		15.1
HAUL	TRUCK	553217.4	6815997.3	3 2.5	15.2
HAUL	TRUCK	553206	6815965	2.5	15.2
HAUL.	TRUCK	553196.4	6815937.9	9 2.5	14.5
	TRUCK		6816195.		8.7
	TRUCK				8.8
	TRUCK		6816202.4		8.8
HAUL	TRUCK	553413.1	6816206	2.5	8.8
HAUL'	TRUCK	553394.4	6816209.5	5 2.5	8.8
HAUL'	TRUCK	553376.1	6816213	2.5	8.9
	TRUCK	553358.1			8.9
	TRUCK		6816219.		9
	TRUCK		6816222.9		9
	TRUCK	553305.8	6816226.2		9
HAUL'	TRUCK	553288.9	6816229.3	3 2.5	9
HAUL'	TRUCK	553272.2	6816232.4	4 2.5	9
HAUL.	TRUCK	553257.5	6816235.2	2.2.5	8.1
	TRUCK	553394.8			19.3
	TRUCK	553280.6			19.7
	TRUCK	553214.4			17.9
EXCAV	'ATOR	553260.3	6816148.2	2 2.5	28.3
Receptor	X Posn	Y Posn	Height	Ground	Noise Level
•	(m)	(m)	(m)	(m)	(dB(A))
R4B	552865.6	6815421	1.8	18.9	34.5
Source	X Posn		Height	10.7	Noise Level
Source		Y Posn	-		
	(m)	(m)	(m)		(dB(A))
EXCAV	ATOR	553236.5	6816087.4		29
Generat	or	553406.4	6816251.5	5 1	15.7
LOADE	R	553348.1	6816171.4		16.8
LOADE		553334.6	6816179.3		16.8
					16.8
LOADE		553321.2	6816187.1		
LOADE		553307.7	6816194.9		16.8
LOADE	R	553298.5	6816200.2	2 2.5	12.4
LOADE	.R	553290.8	6816208.2	2 2.5	17.1
LOADE	R	553280.1	6816221.5	5 2.5	17.1
LOADE		553269.2	6816235.1		17.1
	- *		JULUE/U.1	Am 1 40'	* * * *



V2500000						
LOAD	ER	553258.2	6816248.	.8 2.5		17.1
LOAD	ER	553248.3	6816261.	1 2.5		15.9
Road t			6816257.			10.4
Road to			6816260.			10.5
Road to	ruck	553344.1	6816262.	9 2.5		10.5
Road to	nick	553326 2	6816265.	125		10.5
Road to			6816267.	9 2.5		10.5
Road to	ruck	553293.9	6816270	2.5		8.9
Road to	mek	553289.7	6816256.			12.8
Road to	ruck	553300.6	6816243	2.5		11.1
Road to	ruck	553319.3	6816243.	4 2.5		11
Road to	nick	553338.5				11
Road ti			6816244.	2 2.5		10.8
Road to	ruck	553377	6816243.	9 2.5		10.8
Road to	nick	553396.6	6816243	2.5		10.7
Road to		553416.6				10.7
Road tr	uck	553437	6816241.	2 2.5		10.7
Road tr	uck	553457.8	6816240.	3 2 5		10.6
Road tr		553479.1	6816239.			10.6
Road tr	uck	553501	6816238.	3 2.5		10.6
Road tr	nck	553517.2				7.1
Road tr			6816243.	12.5		10.2
Road tr	uck	553556.5	6816240.	7 2.5		10.2
Road tr	uck	553578.8	6816237.	825		10.1
Road tr		553601.6	6816234.	12.5		10.1
Road tr	uck	553624.9	6816231.	6 2.5		10.1
Road tr	nek	553648 8	6816228.4	125		10
Road tr	uck		6816225.			9.9
Road tr	uck	553698.5	6816221.3	3 2.5		9.9
Road tr	nek	553724 4	6816218.3	2 2 5		9.9
Road tr	uck	553751.1	6816214.8			9.8
Road tr	uck	553778,6	6816211.	1 2:.5		9.8
Road tr	nek		6816208.3			4.2
Road tr	uck	553808.5	6816201	2.5		8.5
Road tr	uck	553824.7	6816186.6	5 2.5		8.5
Road tr	uck	553841	6816172.1			8.5
HAUL	TRUCK	553255	6816103.8	3 2.5		16.7
HAUL	TRUCK	553231.6	6816037.6	5 2.5		16.9
	TRUCK	553212	6815982	2.5		
						17
HAUL	TRUCK	553197.7	6815941.5	5 2.5		15.6
HAUL!	TRUCK	553472.1	6816195	2.5		8.5
	TRUCK					
			6816198.5			8.5
HAUL	TRUCK	553434.7	6816202	2.5		8.6
HAUL'	TRUCK	553416.5	6816205.4	12.5		8.6
	TRUCK	553398.6	6816208.7			
						8.6
HAUL	TRUCK	553380.9	6816212.1	2.5		8.6
HAUL	TRUCK	553363.5	6816215.3	2.5		8.7
	TRUCK	553346.4	6816218.5			
						8.7
HAUL	TRUCK	553329.4	6816221.7	2.5		8.7
HAUL	TRUCK	553312.7	6816224.9	2.5		8.7
	TRUCK	553296.1	6816228	2.5		
						8.7
HAUL	TRUCK	553279.8	6816231	2.5		8.8
HAUL	TRUCK	553263.6	6816234.1	2.5		8.8
HAUL'		553253.3	6816236	2.5		3.4
HAUL	TRUCK	553434.6	6816149	2.5		16
HAUL	TRUCK	553369.6	6816089.6	2.5		16.2
HAUL		553315.8	6816040.4			16.4
HAUL	IRUCK	553270.4	6815998.9	2.5		16.5
HAUL	TRUCK	553231.6	6815963.5	2.5		16.7
HAUL		553203.6	6815937.9			14.9
EXCAV	ATOR	553260.3	6816148.2	2.5		28.2
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
receptor			_			
	(m)	(m)	(m)	(m)		(dB(A))
R5A	552762.8	6815886.6	1.8	24		38
Source	X Posn	Y Posn	Height		Noise Leve	
Source			_			1
	(m)	(m)	(m)		(dB(A))	
EXCAV	ATOR	553236.5	6816087.4	2.5		32.8
Generate		553406.4	6816251.5			19.1
LOADE		553348.9	6816171			18.9
LOADE	R	553337.2	6816177.8	2.5		18.9
LOADE		553325.7	6816184.4			18.9
LOADE	71	553314.5	6816191	2.5		18.9
20.122						



LOADER	553303.5	6816197.3 2.5	18.9
LOADER	553297.1		11.8
LOADER	553292.7	6816205.9 2.5	18.4
LOADER	553285.8	6816214.4 2.5	18.4
LOADER	553279.1	6816222.8 2.5	18.4
LOADER	553272.3		18.4
LOADER	553265.6	6816239.6 2.5	18.4
LOADER	553258.8		18.4
LOADER	553252.1	6816256.3 2.5	18.4
LOADER	553246.4		17
Road truck	553379.9		14.1
Road truck	553360.6		14,1
Road truck	553342	6816263.1 2.5	14.2
Road truck	553324.2		14.2
Road truck	553307.1		14.3
Road truck	553293.4		12.5
Road truck	553288.8		13.4
Road truck	553290.3 553291.2		13.4
Road truck	553301.8		6.7 15.5
Road truck Road truck	553323.5		15.5
Road truck	553346.4		15.4
Road truck	553362.9		11
Road truck	553378.7		14.8
Road truck	553402.4		14.8
Road truck	553427.4		14.7
Road truck	553453.9		14.6
Road truck	553482.1	6816239.2 2.5	14.5
Road truck	553509.4		13.6
Road truck	553537.7	10.11.11.11	13.6
Road truck	553566.1		13.6
Road truck	553596.1	6816235.5 2.5	13.5
Road truck	553628.1		13.4
Road truck	553662	6816226.7 2.5	13.3
Road truck	553698.3		13.2
Road truck	553737	6816216.6 2.5	13.1
Road truck	553778.6		13
Road truck	553808.8		9.9
Road truck	553825.7	6816185.7 2.5	9.8
Road truck	553841.7	6816171.5 2.5	9.1
HAUL TRUCK	553266.1	6816135.3 2.5	12.8
HAUL TRUCK	553261.5	6816122.3 2.5	12.8
HAUL TRUCK	553257.1	6816109.8 2.5	12.8
HAUL TRUCK	553252.8	6816097.6 2.5	12.8
HAUL TRUCK	553248.7	6816085.8 2.5	12.9
HAUL TRUCK	553244.6	6816074.4 2.5	12.9
HAUL TRUCK	553240.7	6816063.4 2.5	12.9
HAUL TRUCK		6816052.6 2.5	12.9
HAUL TRUCK	553233.2	6816042.2 2.5	12.9
HAUL TRUCK	553229.6	6816032 2.5	12.9
HAUL TRUCK	553226.1	6816022.1 2.5	13
HAUL TRUCK	553222.7	6816012.4 2.5	13
HAUL TRUCK	553219.4	6816003 2.5	13
HAUL TRUCK	553216.2	6815993.8 2.5	13
HAUL TRUCK	553213	6815984.7 2.5	13
HAUL TRUCK	553209.9	6815975.9 2.5	13
HAUL TRUCK	553206.8	6815967.3 2.5	13
HAUL TRUCK	553203.8	6815958.8 2.5	13
HAUL TRUCK	553200.9	6815950.5 2.5	13.1
HAUL TRUCK HAUL TRUCK	553198	6815942.3 2.5 6815934.3 2.5	13.1 13.1
HAUL TRUCK	553195.2	6815928.3 2.5	
HAUL TRUCK	553193.1 553469.7	6816195.4 2.5	10.2 11.9
HAUL TRUCK	553446.8	6816199.7 2.5	11.9
HAUL TRUCK	553424.9	6816203.8 2.5	12
HAUL TRUCK	553404.1	6816207.7 2.5	12
HAUL TRUCK	553384.2	6816211.4 2.5	12
HAUL TRUCK	553365.2	6816215 2.5	12.1
HAUL TRUCK	553347	6816218.4 2.5	12.2
HAUL TRUCK	553329.5	6816221.7 2.5	12.2
HAUL TRUCK	553312.7	6816224.9 2.5	12.2
HAUL TRUCK	553296.5	6816227.9 2.5	12.3
HAUL TRUCK	553280.9	6816230.8 2.5	12.3



HAUL	TRUCK	553265.9	6816233.	625		12.3
	TRUCK	553254.7				9.6
	TRUCK		6816170.			14.1
	TRUCK	553431.3	6816146			14.2
HAUL	TRUCK	553406.9	6816123.	7 2.5		14.3
HAUL	TRUCK	553384.5				14.3
	TRUCK	553363.8				14.4
	TRUCK	553344.7				14.4
HAUL	TRUCK	553327	6816050.6	5 2.5		14.5
HAUL	TRUCK	553310.4	6816035.5	5 2.5		14.5
HAUL.	TRUCK	553295	6816021	3 2 5		14.6
	TRUCK	553280.5				14.6
	TRUCK		6815995.			14.6
	TRUCK	553254.1	6815984	2.5		14.7
HAUL'	TRUCK	553242	6815972.9	2.5		14.7
HAUL "	TRUCK	553230.5				14.7
	TRUCK	553219.7				14.8
	TRUCK	553209.4				14.8
HAUL	TRUCK	553199.5	6815934.1	2.5		14.8
HAUL	TRUCK	553194.1	6815929,2	2.5		6.5
EXCAV		553260.3				31.9
LACAV	ATOR	333200.3	0010140.2	2.3		31.9
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
	(m)	(m)	(m)	(m)		(dB(A))
R5B	552747.8	6815977.3		26.9		38.2
Source	X Posn	Y Posn	Height	20.5	Noise Lev	
Source			17.73			ei
	(m)	(m)	(m)		(dB(A))	
EXCAV	ATOR	553236.5	6816087.4	2.5		33
Generate	or	553406.4	6816251.5	1		19.3
LOADE		553348.4				19.5
LOADE		553335.8				19.5
LOADE	R	553323.5	6816185.7	2.5		19.5
LOADE	R	553311.7	6816192.6	2.5		19.5
LOADE	R	553300.9				18.8
LOADE		553292.7				
			6816205.9			18.7
LOADE		553286	6816214.2			18.7
LOADE	R	553279.4	6816222.4	2.5		18.7
LOADE	R	553272.8	6816230.6	2.5		18.7
LOADE		553266.3	6816238.7			18.7
LOADE		553259.8	6816246.7			18.7
LOADE	R	553253.4	6816254.7	2.5		18.7
LOADE	R	553247.1	6816262.6	2.5		18.6
Road tru	ck	553378.5	6816258	2.5		15
Road tru		553356.6	6816261.1			15.1
Road tru		553335.9		2.5		15.2
Road tru		553316.2	6816266.8	2.5		15.2
Road tru	ck	553297.4	6816269.5	2.5		15.3
Road tru	ck	553288.2	6816270.8	2.5		-1.2
Road tru		553288.7	6816265.1			13.4
Road tru		553290	6816253.8			13.4
Road tru	ck	553291	6816245.5	2.5		10.3
Road tru	ck	553304.2	6816243.1	2.5		16.9
Road tru	ck	553331.3	6816243.6	25		16.8
Road tru			6816244.1			15.3
Road tru		553381.1	6816243.7			16
Road tru	ck	553410.2	6816242.4	2.5		15.9
Road tru	ck	553441.5	6816241	2.5		15.8
Road tru	ck	553475.5	6816239.5			15.7
Road tru		553507.7	6816238	2.5		
						14.4
Road tru		553540.2	6816242.9			14.5
Road true	ck	553574.3	6816238.4	2.5		14.5
Road true	ck	553611	6816233.5	2.5		14.4
Road true		553650.6	6816228.2			14.2
Road tru						
		553693.7	6816222.4			14.1
Road true		553740.6	6816216.2			14
Road true	ck	553782.8	6816210.5	2.5		12.1
Road true	ck	553809.2	6816200.4	2.5		10.1
Road true		553827	6816184.5			10.1
Road true		553842.6				8.5
			6816170.6			
HAUL T		553266.5	6816136.4			12.3
HAUL T	RUCK	553262.6	6816125.5	2.5		12.3
HAUL T	RUCK	553258.9	6816114.8	2.5		12.3
HAUL T			6816104.3			12.3
				-		



HAIII	TRUCK	553251.6	6816094.	125		12.3
	TRUCK	553248.1				12.4
	TRUCK		6816074.4			12.4
	TRUCK		6816064.8			12.4
	TRUCK		6816055.			12.4
HAUL	TRUCK	553234.7	6816046.3	3 2.5		12.4
HAUL	TRUCK	553231.5	6816037.2	2 2.5		12.4
HAUL	TRUCK	553228.4	6816028.3	3 2.5		12.4
	TRUCK	553225.3	6816019.6	5.2.5		12.4
	TRUCK		6816011			12.4
						12.5
	TRUCK		6816002.5			
		553216.3	6815994.2	2 2.5		12.5
	TRUCK		6815986			12.5
HAUL	TRUCK	553210.5	6815977.8	3 2.5		12.5
HAUL	TRUCK	553207.7	6815969.8	3 2.5		12.5
HAUL	TRUCK	553204.9	6815961.9	2.5		12.5
		553202.1				12.5
	TRUCK		6815946.3			12.5
		T. C.				
	TRUCK		6815938.6			12.5
	TRUCK	553194				12.5
HAUL'	TRUCK	553192.5	6815926.7	7 2.5		2.9
HAUL'	TRUCK	553467.4	6816195.8	3 2.5		12.8
HAUL '	TRUCK	553440.4	6816200.9	2.5		12.9
	TRUCK	553415	6816205.7	2.5		12.9
	TRUCK		6816210.1	2.5		13
	TRUCK	553331.2	6916210.1	12.5		13
		333308.7	6816210.1 6816214.4	2.5		
	TRUCK		0010=1010			13.1
HAUL	TRUCK	553327.4	6816222.1	2.5		13.2
HAUL '	TRUCK	553308.3	6816225.7	2.5		13.2
HAUL	TRUCK	553290.2	6816229.1	2.5		13.2
HAUL.	TRUCK	553273	6816232.3			13.3
	TRUCK	553257.7				12.6
	TRUCK		6816173.8			13
	TRUCK		6816155.3			13
HAUL'	TRUCK	553422.5	6816137.9	2.5		13.1
HAUL 1	TRUCK	553404.7	6816121.6	2.5		13.1
	TRUCK	553387.9	6816106.3	2.5		13.2
	TRUCK	553372	6816091.8			13.2
	TRUCK	553357.1	6816078.1			13.2
	TRUCK		6816065.1			13.2
HAUL	FRUCK	553329.4	6816052.8	2.5		13.3
HAUL	TRUCK	553316.6	6816041.1	2.5		13.3
HAUL ?	TRUCK	553304.3	6816029.9	2.5		13.3
	TRUCK		6816019.2			13.4
		553281.5				13.4
	TRUCK					
	ΓRUCK		6815999.3	2.5		13.4
HAUL	ΓRUCK	553260.5		2.5		13.5
HAUL	ΓRUCK	553250.7	6815980.9	2.5		13.5
HAUL	TRUCK	553241.2	6815972.2	2.5		13.5
HAULT		553232.1	6815963.8			13.5
HAUL		553223.2	6815955.8			13.6
HAUL			6815948	2.5		13.6
		553214.7				
HAUL		553206.5				13.6
HAUL		553198.5				13.6
HAUL	TRUCK	553194.1	6815929.1	2.5		5.5
EXCAV	'ATOR	553260.3	6816148.2	2.5		32.2
Receptor	X Posn	Y Posn	Height	Ground		Noise Level
•	(m)	(m)	(m)	(m)		(dB(A))
R6A	552849.5	6816597	1.8	7.7		36.2
				1.1	NT. 9 T	
Source	X Posn	Y Posn	Height		Noise Leve	el
	(m)	(m)	(m)		(dB(A))	
EXCAV	ATOR	553236.5	6816087.4	2.5		27.4
Generate	or	553406.4	6816251.5			19.7
LOADE		553327.9	6816183.2			26.2
LOADE			6816199.6			18.3
LOADE		553277.6	6816224.6			26.9
LOADE		553252.2	6816256.2			24.5
Road tru		553376.6	6816258.2			17.4
Road tru	1.	553351.6	6816261.8	2.5		17.5
	CK	333331.0	0010201.0			
Road tru		553328.4	6816265.1			17.5
	ck	553328.4	6816265.1	2.5		
Road tru Road tru Road tru	ck ck			2.5 2.5		17.5 17.6 13.9



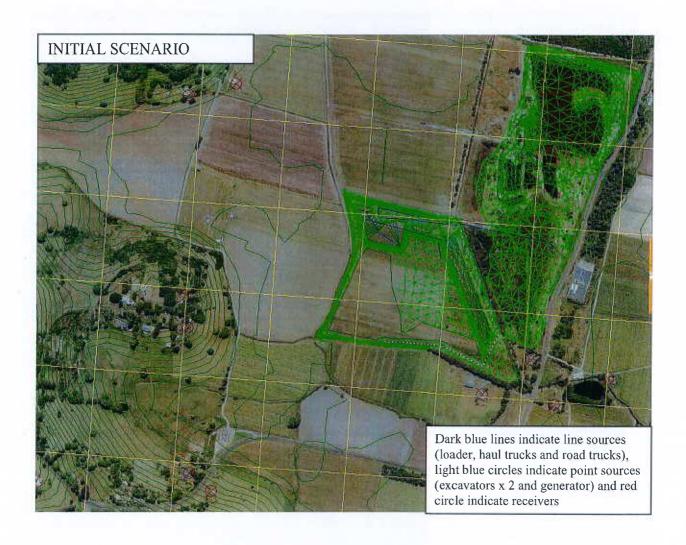
Road truck	553288.8	8 6816264,2 2.5	15.9
Road truck	553290.4		15.9
Road truck	553291.3		4.4
Road truck	553299.		16,2
Road truck	553315.2		16.1
Road truck	553332	6816243.6 2.5	16.1
Road truck	553349.0	6816244 2.5	16
Road truck	553363	6816244.3 2.5	12.7
Road truck	553378	6816243.9 2.5	16.4
Road truck	553400	6816242.9 2.5	16.3
Road truck	553423.4	6816241.8 2.5	7.9
Road truck	553448.3		16.1
Road truck	553474.9		16.1
Road truck	553503.4		16
Road truck	553520.3		6.9
Road truck	553543.9		16.8
Road truck	553586.5		16.7
Road truck	553633.8		16.6
Road truck Road truck	553686.7		16.3
Road truck	553746.3	6816215.4 2.5 6816209.6 2.5	16.2
Road truck	553821.1		11.1
Road truck	553845.9		6.3
HAUL TRUCK	553266.4		8.1
HAUL TRUCK		6816124.5 2.5	8
HAUL TRUCK	553258.1		8
HAUL TRUCK	553253.7		8
HAUL TRUCK	553249.3		8
HAUL TRUCK	553244.8	6816075 2.5	8 8
HAUL TRUCK	553240.2	6816062 2.5	8
HAUL TRUCK	553235.5	6816048.6 2.5	8
HAUL TRUCK	553230.7	6816034.9 2.5	8
HAUL TRUCK	553225.7		8
HAUL TRUCK	553220.6		8
HAUL TRUCK	553215.3		8
HAUL TRUCK		6815976.2 2.5	8.1
HAUL TRUCK	553204.4		8.1
HAUL TRUCK	553198.7		8
HAUL TRUCK	553194	6815931.1 2.5	5.5
HAUL TRUCK	553464.8		14.4
HAUL TRUCK	553433.1		14.5
HAUL TRUCK	553403.9	6816207.7 2.5 6816212.8 2.5	14.6
HAUL TRUCK		6816217.5 2.5	14.7 14.8
HAUL TRUCK		6816221.9 2.5	14.9
HAUL TRUCK		6816226 2.5	15
HAUL TRUCK		6816229.9 2.5	15
HAUL TRUCK		6816233.5 2.5	15.1
HAUL TRUCK	553254.1	6816235.8 2.5	10.7
HAUL TRUCK	553467.4	6816179 2.5	10.3
HAUL TRUCK	553457.6	6816170 2.5	10.3
HAUL TRUCK	553447.8	6816161.1 2.5	10.3
HAUL TRUCK	553438.1	6816152.2 2.5	10.4
HAUL TRUCK	553428.5	6816143.4 2.5	10.4
HAUL TRUCK	553418.9	6816134.7 2.5	10.4
HAUL TRUCK	553409.4	6816125.9.2.5	10.4
HAUL TRUCK	553399.9	6816117.3 2.5	10.4
HAUL TRUCK	553390.4	6816108.6 2.5	10.4
HAUL TRUCK	553381	6816100 2.5	10.4
HAUL TRUCK HAUL TRUCK	553371.6	6816091.4 2.5	10.4
HAUL TRUCK	553362.3 553352.9	6816082.9 2.5 6816074.3 2.5	10.3
HAUL TRUCK	553343.6	6816065.8 2.5	10.3
HAUL TRUCK	553334.2	6816057.2 2.5	10.3
HAUL TRUCK	553324.9	6816048.7 2.5	10.3
HAUL TRUCK	553315.5	6816040.1 2.5	6.9
HAUL TRUCK	553306.1	6816031.6 2.5	6.9
HAUL TRUCK	553296.7	6816023 2.5	6.9
HAUL TRUCK	553287.3	6816014.4 2.5	6.9
HAUL TRUCK	553277.9	6816005.7 2.5	6.9
HAUL TRUCK	553268.4	6815997.1 2.5	6.9
HAUL TRUCK	553258.9	6815988.3 2.5	6.9
HAUL TRUCK	553249.3	6815979.6 2.5	6.9



HAIII	TRUCK	553230 6	6815970.8	2.5	6.9
HAUL	TRUCK	553229.9	6815961.9	2.5	6.9
HAUL	TRUCK	553220.2	6815953	2.5	6.9
HAUL		553210.3	6815944	2.5	6.9
HAUL		553200.4	6815934.9	2.5	6.8
HAUL	TRUCK	553194.4	6815929.4	2.5	-0.3
EXCAV	ATOR	553260.3			28.1
LACAV	ATOR	333200.3	0010140.2	2.3	20.1
Receptor	X Posn	Y Posn	Height	Ground	Noise Level
•	(m)	(m)	(m)	(m)	(dB(A))
DO					
R6B	552715.7	6816554.2		10.6	36.5
Source	X Posn	Y Posn	Height		Noise Level
	(m)	(m)	(m)		(dB(A))
EVOAN		1.30339.0		2.5	
EXCAV		553236.5	6816087.4		30.2
Generate	or	553406.4	6816251.5	1	18.3
LOADE	R	553324.1	6816185.4	25	25.5
LOADE		553285.4			23.1
LOADE	R	553265.6	6816239.6	2.5	23.1
LOADE	R	553250	6816258.9	2.5	21.6
Road tru		553367.1	6816259.6		18.1
Road tru	ıck	553325.5	6816265.5	2.5	18.2
Road tru	ick	553297.1	6816269.5	2.5	15.4
Road tru					
- 4-11-11-11-11-11-11-11-11-11-11-11-11-11		553288.8			14.1
Road tru	ck	553290.4	6816250.6	2.5	14.1
Road tru	ck	553291.3	6816243.3	2.5	2.4
Road tru					16.2
		553303.1		2.5	
Road tru	ck	553327.7	6816243.5	2.5	16.1
Road tru	ck	553353.8	6816244.1	2.5	16
Road tru			6816243.6		16.6
Road tru	ck	553419.2	6816242	2.5	16.4
Road tru	ck	553457.8	6816240.3	2.5	16.3
Road tru			6816238.4		16.1
Road tru	ck	553557.8	6816240.6	2.5	17.4
Road tru	ck	553633.7	6816230.4	2.5	17.2
Road tru	ck		6816218.5		16.9
Road tru	ck	553787.5	6816209.9	2.5	10.5
Road tru	ck	553819.1	6816191.6	2.5	13
Road tru	ck	553843.8	6816169.6	2.5	7.3
HAUL T			6816136.1		10.7
HAUL T	RUCK	553262.1	6816124	2.5	10.7
HAUL T	RUCK	553257.8	6816111.9	2.5	10.6
HAUL T			6816099.6		10.6
HAUL T	RUCK	553249.1	6816087.1	2.5	10.6
HAUL T	RUCK	553244.6	6816074.4	2.5	10.6
HAUL T			6816061.6		10.6
HAUL T	RUCK	553235.5	6816048.5	2.5	10.6
HAUL T	RUCK	553230.8	6816035.3	2.5	10.6
HAUL T		553226.1			10.5
HAUL T	RUCK	553221.2	6816008.1	2.5	10.5
HAUL T	RUCK	553216.3	6815994.1	2.5	10.5
HAUL T			6815979.9		10.5
HAULT		553206.1	6815965.3	2.5	10.5
HAULT	RUCK	553200.9	6815950.5	2.5	10.5
HAUL T	RUCK	553195.5	6815935.3	2.5	10.4
HAUL T			6815927		-0.3
HAUL T	RUCK	553453.8	6816198.4	2.5	15.2
HAUL T	RUCK	553403.1	6816207.9	2.5	15.4
HAUL T			6816216.3		15.6
HAUL T	RUCK	553318.2	6816223.8	2.5	15.7
HAUL T	RUCK	553282.2	6816230.6	2.5	15.8
HAUL T			6816235.1		12.5
HAUL T			6816178.2		9.6
HAUL T	RUCK	553455.1	6816167.7	2.5	9.6
HAUL T		553443.7	6816157.3	2.5	9.6
HAUL T			6816147.1		9.7
HAUL T	RUCK	553421.4	6816136.9	2.5	9.7
HAUL T	RUCK	553410.4	6816126.9	2.5	9.7
HAUL T			6816116.9		9.7
HAUL T	KUCK	553388.7	6816107.1	2.5	9.7
HAUL T	RUCK	553378.1	6816097.3	2.5	9.7
HAUL T			6816087.6		9.7
HAUL T				2.5	9.7
HAUL T	RUCK	553346.5	6816068.5	2.5	9.7



HAUL TRUCK	553336.1	6816059 2.5	9.7
HAUL TRUCK	553325.8	6816049.5 2.5	9.7
HAUL TRUCK	553315.5	6816040.1 2.5	9.7
HAUL TRUCK	553305.3	6816030.8 2.5	9.7
HAUL TRUCK	553295.1	6816021.5 2.5	9.7
HAUL TRUCK	553284.9	6816012.2 2.5	9.7
HAUL TRUCK	553274.8	6816002.9 2.5	9.7
HAUL TRUCK	553264.7	6815993.7 2.5	9.7
HAUL TRUCK	553254.6	6815984.4 2.5	9.7
HAUL TRUCK	553244.5	6815975.2 2.5	9.7
HAUL TRUCK	553234.4	6815965.9 2.5	9.7
HAUL TRUCK	553224.3	6815956.7 2.5	9.7
HAUL TRUCK	553214.1	6815947.5 2.5	9.7
HAUL TRUCK	553204	6815938.2 2.5	9.7
HAUL TRUCK	553196.2	6815931 2.5	7
EXCAVATOR	553260.3	6816148.2 2.5	30.5

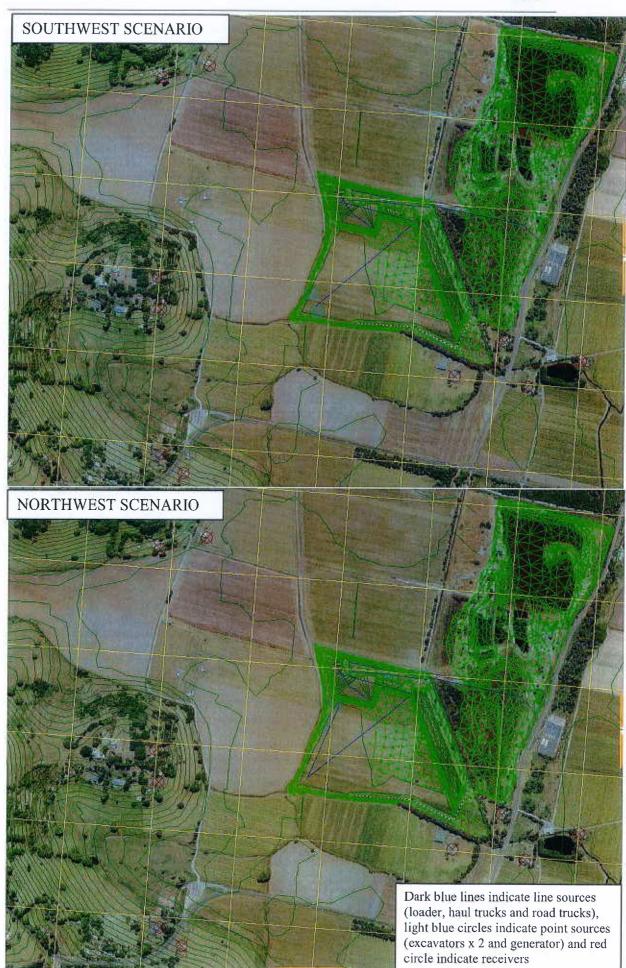






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CONSTRUCTION NOISE IMPACT PREDICTIONS

SOUTHEAST CORNER

Pen3D2000 V 1.9.11 Project Code:10453a

Project Description: Noise assessment of Newrybar Swamp Rd Quarry

Wednesday 18 Apr, 2012 at 11:21:28

Environmental Calculations

All point and line sources included. Line source segmentation angle: 1 degrees. Calculations for specified meteorology.

Noise level results are the logarithmic addition of all the noise sources

Noise level results incorporate the incoherent ground reflection algorithm

Wind speed 0.0 (m/s) Wind direction 0 Mast height 10.0 (m)
Temperature 20.0 (C) Temperature Gradient 0.0 (C/100m) Humidity 50.0 (%)

Surface Roughness of terrain 0.023000000 (m) Zero plane offset 0.080000000 (m)

Receptor	X Posn	Y Posn	Height	Ground	Noise Level
	(m)	(m)	(m)	(m)	(dB(A))
R1	553772.1	6815867.2	2 1.8	3	52
R2A	553848.7	6815742.3	3 1.8	3.6	45.8
R2B	554002.8	6815828.9	1.8	4	40.8
R3	553634.8	6815756.9	9 1.8	3.6	51.6
R4A	552797.6	6815469.6	5 1.8	16.9	33
R4B	552865.6	6815421	1.8	18.9	33.3
R5A	552762.8	6815886.6	5 1.8	24.1	33.7
R5B	552747.8	6815977.7	7 1.8	26.9	33.5
R6A	552849.5	6816597	1.8	7.7	32.8
R6B	552715.7	6816554.2	2 1.8	10.6	31.8

SOUTH BOUNDARY

Wednesday 18 Apr, 2012 at 11:20:04

Environmental Calculations

All point and line sources included. Line source segmentation angle: 1 degrees. Calculations for specified meteorology.

Noise level results are the logarithmic addition of all the noise sources

Noise level results incorporate the incoherent ground reflection algorithm

Meteorology:

Wind speed 0.0 (m/s) Wind direction 0 Mast height 10.0 (m)

Temperature 20.0 (C) Temperature Gradient 0.0 (C/100m) Humidity 50.0 (%)

Surface Roughness of terrain 0.023000000 (m) Zero plane offset 0.080000000 (m)

Receptor	X Posn	Y Posn	Height	Ground	Noise Level
	(m)	(m)	(m)	(m)	(dB(A))
R1	553772.1	6815867.2	1.8	3	50.1
R2A	553848.7	6815742.3	1.8	3.6	45.4
R2B	554002.8	6815828.9	1.8	4	41.4
R3	553634.8	6815756.9	1.8	3.6	53.9
R4A	552797.6	6815469.6	1.8	16.9	33.4
R4B	552865.6	6815421	1.8	18.9	33.7
R5A	552762.8	6815886.6	1.8	24.1	34.1
R5B	552747.8	6815977.7	1.8	26.9	33.8
R6A	552849.5	6816597	1.8	7.7	32.8
R6B	552715.7	6816554.2	1.8	10.6	31.9

NORTH AT STOCKPILE AND ROAD

Wednesday 18 Apr, 2012 at 11:17:20

Environmental Calculations

All point and line sources included. Line source segmentation angle: 1 degrees. Calculations for specified meteorology.

Noise level results are the logarithmic addition of all the noise sources

Noise level results incorporate the incoherent ground reflection algorithm

Wind speed 0.0 (m/s) Wind direction 0 Mast height 10.0 (m)

Temperature 20.0 (C) Temperature Gradient 0.0 (C/100m) Humidity 50.0 (%)

Surface Roughness of terrain 0.023000000 (m) Zero plane offset 0.080000000 (m)

Receptor	X Posn	Y Posn	Height	Ground	Noise Level
•	(m)	(m)	(m)	(m)	(dB(A))
R1	553772.1	6815867.2	1.8	3.2	36.4
R2A	553848.7	6815742.3	1.8	3.4	34.8
R2B	554002.8	6815828.9	1.8	4	33.7
R3	553634.8	6815756.9	1.8	3.3	37.4
R4A	552797.6	6815469.6	1.8	16.9	32.4
R4B	552865.6	6815421	1.8	18.9	32.3
R5A	552762.8	6815886.6	1.8	24	36
R5B	552747.8	6815977.7	1.8	26.9	36.4
R6A	552849.5	6816597	1.8	7.7	37.5
R6B	552715.7	6816554.2	1.8	10.6	35.9