



CALVIN CONSULTING GROUP LTD.
SUITE 1A, 3850 - 19TH STREET N.E., CALGARY, ALBERTA T2E 6V2
PHONE: 403-547-7557
EMAIL: info@calvinconsulting.ca

**REVISED
AIR QUALITY
DISPERSION MODELLING ASSESSMENT
FOR ARMADA NOWLIT ENERGY LTD.
HOOLE SOUTH 16-36 POWER PROJECT
LSD 16-36-080-25 W4M**

Prepared for:
**Armada Nowlit Energy Ltd.
6 - 563 Hurricane Drive
Calgary, Alberta T3Z 3S8**

Prepared by:
**Calvin Consulting Group Ltd.
Suite 1A, 3850 - 19th Street N.E.
Calgary, Alberta T2E 6V2**

Job No. J2025-095R4

July 13, 2026



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PHONE: 403-547-7557
EMAIL: info@calvinconsulting.ca

Author

Signature

Mr. Brad Fournier, EP
Name

Senior Consultant
Title

Peer Review

Signature

Mr. Barry Lough, EP, P.Phys.
Name

Principal Consultant
Title

QA/QC

Signature

Ms. Laura Charlton, EP
Name

Principal Consultant
Title



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PHONE: 403-547-7557
EMAIL: info@calvinconsulting.ca

July 13, 2026

J2025-095R4

Armada Nowlit Energy Ltd.

SENT BY EMAIL: fred.wan@armada-nowlit.com

Attention: Mr. Fred Wan, Project Manager

**Subject: Revised Air Quality Dispersion Modelling Assessment
for Hoole South 16-36 Power Project**

At the request of Armada Power Ltd. (Armada), Calvin Consulting Group Ltd. (Calvin Consulting) has completed a revised Air Quality Dispersion Modelling Assessment (Assessment) for the proposed Hoole South 16-36 Power Project (Project), which will be located at Legal Subdivision (LSD) 16-36-080-25 W4M in Alberta. The purpose of the revised Assessment is to determine if the maximum predicted ground-level Nitrogen Dioxide (NO₂) concentrations associated with the operation of stationary combustion equipment at the Project comply with the applicable Alberta Ambient Air Quality Objectives (AAAQOs). This Assessment is a revision of the previous dispersion modelling assessment that was completed by Calvin Consulting on 07-Jul-2026 to incorporate the addition of Selective Catalytic Reduction (SCR) technology to the Project Nitrogen Oxides (NO_x) sources that will reduce emissions.

If you require any additional information, or have any comments or concerns pertaining to these results, please do not hesitate to contact me by phone at 587-582-7553 or by email at brad.fournier@calvinconsulting.ca.

Sincerely,
Calvin Consulting Group Ltd.

Brad Fournier, EP
VP Technical Services



DISCLAIMER

Calvin Consulting Group Ltd. (Calvin Consulting) has prepared this report to provide Armada Nowlit Energy Ltd. (Armada) with the predicted maximum concentrations of air contaminants that may occur in the vicinity of the proposed Hoole South 16-36 Power Project (Project). These maximum concentrations were estimated based on, but not limited to, the following:

- Data provided by Armada, noting that in the absence of data for any emission source, estimated parameters were developed based on the professional experience of Calvin Consulting personnel
- Digital terrain data that are publicly available from the Government of Canada
- Historical meteorology data provided by the Alberta Government
- Estimates of land use percentages for land classes (e.g., vegetation cover, urban development, agricultural land, forest, etc.) within the selected modelling domain provided by the Alberta Government
- Ambient air quality data collected from continuous monitoring Stations and provided by the Alberta Air data Warehouse
- A computer modelling system required for use by the Alberta Air Quality Model Guideline (AQMG) and distributed by the United States Environmental Protection Agency (U.S. EPA)

Information, data, facts and the computer model provided by others and used in preparation of this report are assumed to be accurate without any verification or confirmation by Calvin Consulting.

As a result of the uncertainty and inherent variability in the preceding data and/or estimates, Calvin Consulting makes no representation or warranty with respect to this report or the information contained herein other than that Calvin Consulting has exercised reasonable skill, care and diligence in accordance with accepted practice and usual standards of thoroughness and competence for the Environmental Profession with respect to the collection, assessment and evaluation of the information used in the preparation of this report. Liability for the acceptance and implementation of the information and/or recommendations made in this report is limited to the actual dollar value of professional fees charged by Calvin Consulting for the scope of work as indicated in this report.



GLOSSARY

AAAQO	Alberta Ambient Air Quality Objective
AEPA	Alberta Environment and Protected Areas
AQMG	Air Quality Model Guideline
ASL	Above Sea-Level
BPIP	Building Profile Input Program
ISR	In-Stack Ratio
LSD	Legal Subdivision
NO ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxides
O ₃	Ozone
PVMRM	Plume Volume Molar Ratio Method
SCR	Selective Catalytic Reduction
U.S. EPA	United States Environmental Protection Agency
WRF	Weather Research and Forecasting



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1.0 INTRODUCTION

At the request of Armada Power Ltd. (Armada), Calvin Consulting Group Ltd. (Calvin Consulting) has completed a revised Air Quality Dispersion Modelling Assessment (Assessment) for the proposed Hoole South 16-36 Power Project (Project), which will be located at Legal Subdivision (LSD) 16-36-080-25 W4M in Alberta. The purpose of the revised Assessment is to determine if the maximum predicted ground-level Nitrogen Dioxide (NO₂) concentrations associated with the operation of stationary combustion equipment at the Project comply with the applicable Alberta Ambient Air Quality Objectives (AAAQOs). This Assessment is a revision of the previous dispersion modelling assessment that was completed by Calvin Consulting on 07-Jul-2026 to incorporate the addition of Selective Catalytic Reduction (SCR) technology to the Project Nitrogen Oxides (NO_x) sources that will reduce emissions.



2.0 APPROACH

The revised Assessment was performed as per the 2021 Alberta Air Quality Model Guideline (AQMG) using the United States Environmental Protection Agency (U.S. EPA) AERMOD v.24142 dispersion model, five years of meteorological data and elevated terrain as described in the following sections.

2.1 Meteorological Data

Meteorological data were obtained from the Alberta Environment and Protected Areas (AEPA) Weather Research and Forecasting (WRF) Meteorological Data Repository. The data cover the period from 01-Jan-2015 to 31-Dec-2019 and are centred on the geographical point at 55.982°N and 113.766°W. Five years of the data were processed in AERMET v.24142 to produce meteorological files suitable for use in AERMOD.

Figure 1 provides a wind direction and wind speed frequency diagram (i.e., windrose) for the area based on the hourly-average data. As indicated in the windrose, the hourly-average winds are predominantly from the western quadrant.

2.2 Terrain Data

Terrain data were obtained from the Government of Canada, Department of Natural Resources Geobase online portal, which provides public access to a base of quality geospatial data for all of Canada. The domain used for this Assessment incorporates topographic data from map tiles identified as 083P13 and 084A04.

2.3 Modelling Receptors

The following receptor grids were used in the revised Assessment as per the 2021 Alberta AQMG:

- **Grid 1** Every 50 m out to 500 m
- **Grid 2** Every 250 m out to 2000 m
- **Grid 3** Every 500 m out to 5000 m
- **Grid 4** Every 1000 m out to 10000 m
- **Grid 5** Every 20 m along the Project perimeter
- **Grid 6** Every 20 m out to 200 m surrounding each maximum ground-level concentration predicted by the previous runs

Figure 2 presents the location of the Project, dispersion modelling receptors and terrain elevations Above Sea-Level (ASL) for the 10 km radius modelling domain surrounding the Project, noting that there is no neighbouring industrial emission source within 5 km of the Project.

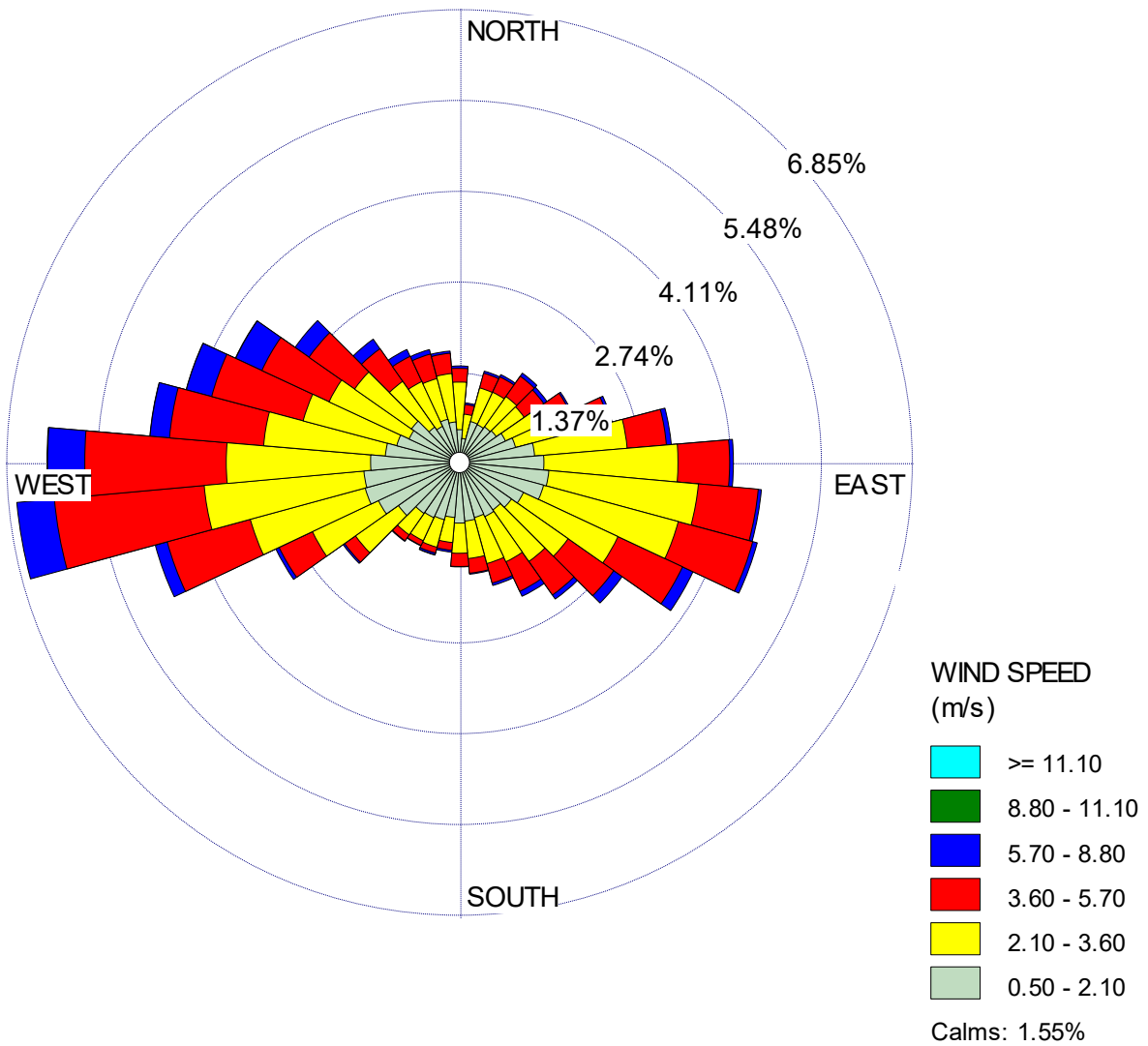


Figure 1 Windrose indicating the frequency of wind direction and wind speeds in the area.

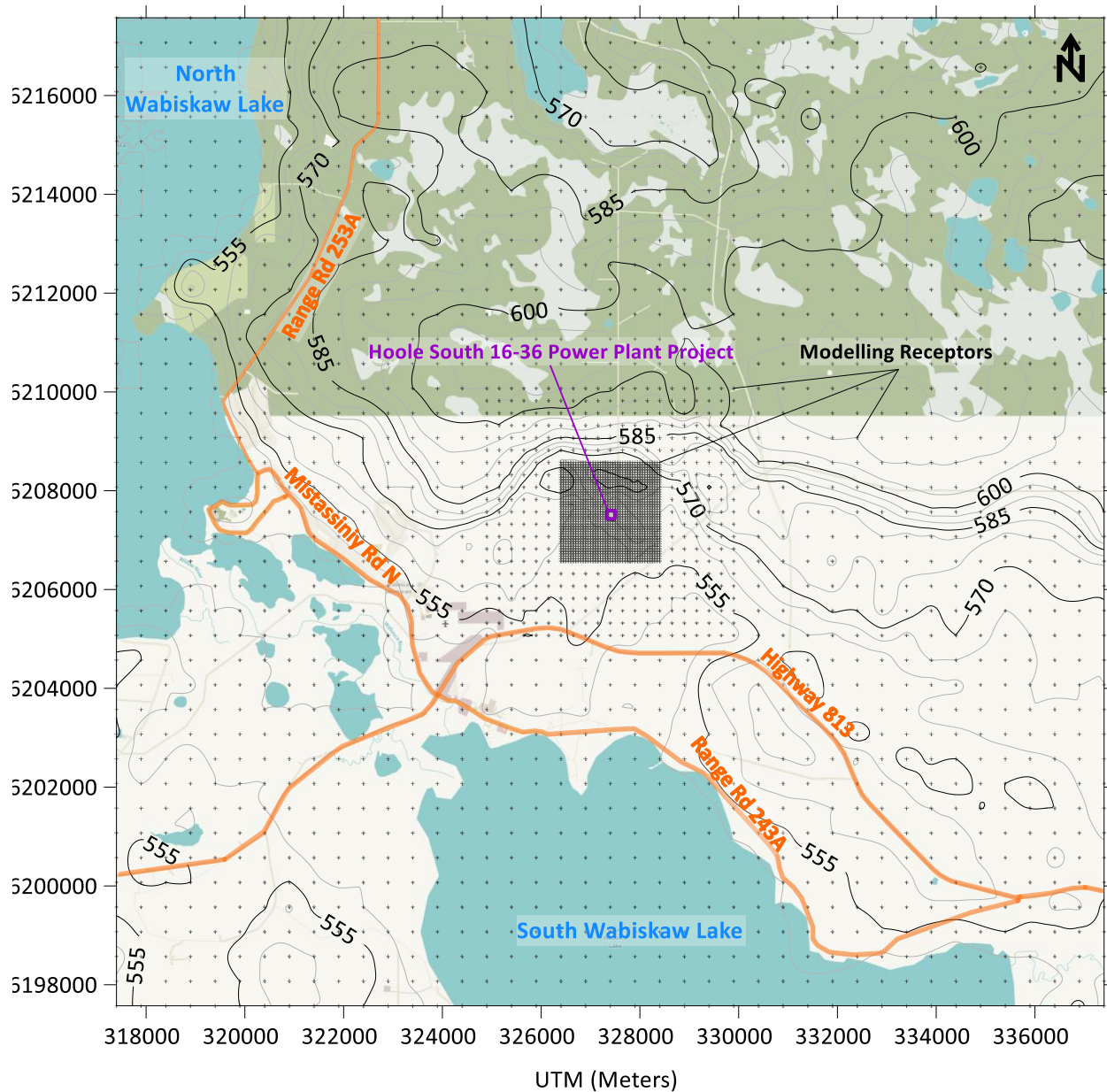


Figure 2 Location of dispersion modelling receptors and ground-level elevations (m) within 10 km of the Project.



2.4 Background Concentrations

As required by the 2021 Alberta AQMG, background concentrations must be added to the concentrations predicted by the air quality dispersion model. To obtain background concentrations, current and historical monitoring data available on the Alberta Ambient Air Data Management System (AEPA, Airdata Warehouse) website were assessed.

Data from the Power Monitoring Station were used to estimate the background NO₂ concentrations for this Assessment. This monitoring station is located ~265 km south-southwest of the Project. The data obtained from the monitoring station cover the period from 01-Apr-2022 to 31-Mar-2025.

The 90th percentile value of the measured hourly NO₂ data was used to estimate a one-hour background concentration using the available data for each of the three most recent years. The three values were then averaged to obtain a one-hour average background NO₂ concentration of 10.8 µg/m³. Based on the reduced hourly data set for each year with the greater than 90th percentile data removed, the annual concentrations were calculated and then the maximum of the three years was used as the annual background NO₂ concentration of 5.9 µg/m³.

2.5 Building Downwash

The U.S. EPA Building Profile Input Program (BPIP) was used to determine the effects of building downwash on dispersion of the exhaust from the stationary combustion equipment. The station will include nine generator buildings (Tag Nos. MWM1 to MWM9) and nine miner containers (Tag Nos. MC1 to MC9), noting that all buildings will be identical in size with a peak roof height of 2.896 m. The BPIP input and output files are provided in Attachment A.

2.6 NO_x to NO₂ Conversion

The NO_x modelling results were converted to NO₂ using the Plume Volume Molar Ratio Method (PVMRM) as outlined in the 2021 Alberta AQMG. The following modelling options were selected in AERMOD for the PVMRM calculations, as required by the 2021 Alberta AQMG:

- The default equilibrium NO₂/NO_x ratio of 0.90 was used.
- NO₂/NO_x In-Stack Ratio (ISR) was not available for the emission sources and as such, a value of 0.2 was assigned.

Onsite Ozone (O₃) concentrations were not available and as such, rural O₃ concentration background data were obtained from Appendix F of the 2021 Alberta AQMG and were used for the PVMRM conversions.



3.0 NO₂ MODELLING RESULTS

Stack and emission parameters associated with stationary combustion equipment at the Project are provided in Table 1. NO₂ dispersion modelling results, including background concentrations, are provided in Table 2, noting that for one-hour average ground-level concentrations, the ninth-highest predicted concentration is the value that is required to be reported for Air Quality Dispersion Modelling Assessments in Alberta. As indicated in Table 2, when all nine gensets at the Project are equipped with NO_x reduction technology, all predicted ground-level NO₂ concentrations comply with the applicable AAAQOs at and beyond the Project fenceline. The location of each maximum NO₂ concentration in relation to the MWM MGM-TCG3020 2.2 MW No. 3 (MWM3) exhaust stack is also provided in Table 2, along with Isopleth Figure Nos. The modelling input and output files are provided in Attachment B.



Table 1 Stack and NO_x emission parameters associated with stationary combustion sources at the Project.

Emission Source	ID	Engine Rating (kW)	NO _x Emission Factor (g/kW-h)	Stack Height (m)	Stack Diameter (m)	Exit Velocity (m/s)	Exit Temp (°C)	Release Direction (H/V)	Raincap (Y or N)	NO _x Emission (g/s) ^(a)	Total NO _x Emission (kg/h)
MWM MGM-TCG3020 2.2 MW No. 1	MWM1	2200	0.3000	8.30	0.6300	9.79	400	H	N	0.1833	0.6600
MWM MGM-TCG3020 2.2 MW No. 2	MWM2	2200	0.3000	8.30	0.6300	9.79	400	H	N	0.1833	0.6600
MWM MGM-TCG3020 2.2 MW No. 3	MWM3	2200	0.3000	8.30	0.6300	9.79	400	H	N	0.1833	0.6600
MWM MGM-TCG3020 2.2 MW No. 4	MWM4	2200	0.3000	8.30	0.6300	9.79	400	H	N	0.1833	0.6600
MWM MGM-TCG3020 2.2 MW No. 5	MWM5	2200	0.3000	8.30	0.6300	9.79	400	H	N	0.1833	0.6600
MWM MGM-TCG3020 2.2 MW No. 6	MWM6	2200	0.3000	8.30	0.6300	9.79	400	H	N	0.1833	0.6600
MWM MGM-TCG3020 2.2 MW No. 7	MWM7	2200	0.3000	8.30	0.6300	9.79	400	H	N	0.1833	0.6600
MWM MGM-TCG3020 2.2 MW No. 8	MWM8	2200	0.3000	8.30	0.6300	9.79	400	H	N	0.1833	0.6600
MWM MGM-TCG3020 2.2 MW No. 9	MWM9	2200	0.3000	8.30	0.6300	9.79	400	H	N	0.1833	0.6600
TOTAL										1.65	5.94

^(a) Assumes installation of NO_x reduction technology



Table 2 Maximum predicted ground-level NO₂ concentrations associated with continuous operation of stationary combustion equipment at the Project.

Averaging Period	Predicted NO _x (µg/m ³)	Predicted NO ₂ (µg/m ³) ^(a)	Background NO ₂ Concentrations (µg/m ³)	Predicted NO ₂ with Background (µg/m ³)	AAAQO (µg/m ³)	Isopleth Figure No.	Location of Maximum	
							Distance (m)	Direction
One-Hour ^(b)	105.4	84.6	10.8	95.4	300	3	147	SSE
Annual ^(c)	7.3	6.2	5.9	12.1	45	4	130	ESE

^(a) NO₂ concentrations predicted using PVMRM as outlined in the 2021 Alberta AQMG

^(b) Ninth-highest one-hour average predicted concentration as per the 2021 Alberta AQMG

^(c) Maximum predicted annual concentration as per the 2021 Alberta AQMG

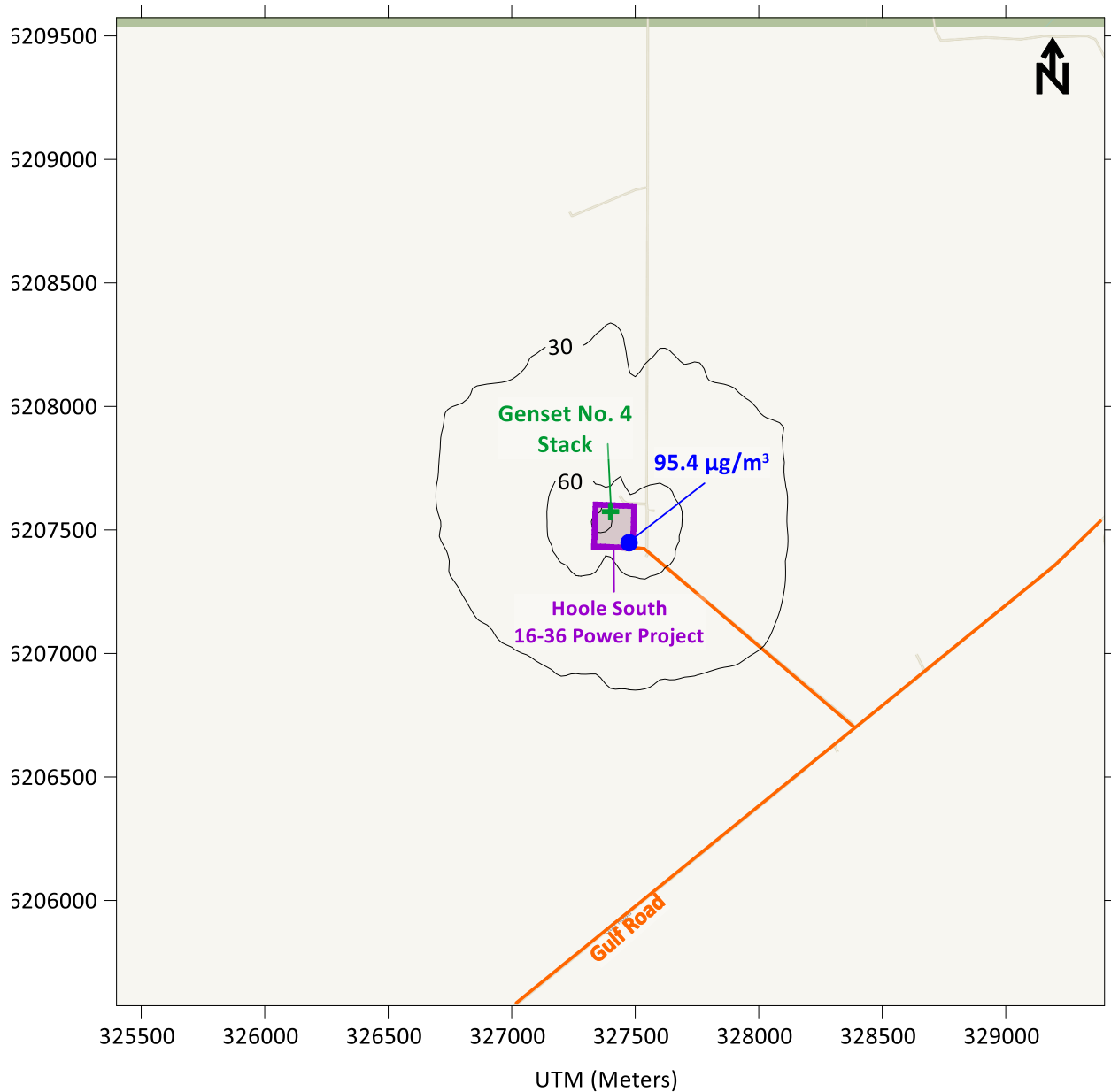


Figure 3 Ninth-highest predicted one-hour average ground-level NO₂ concentrations associated with continuous operation of stationary combustion equipment at the Project, including ambient background concentrations. Isopleths shown include 30 and 60 µg/m³.

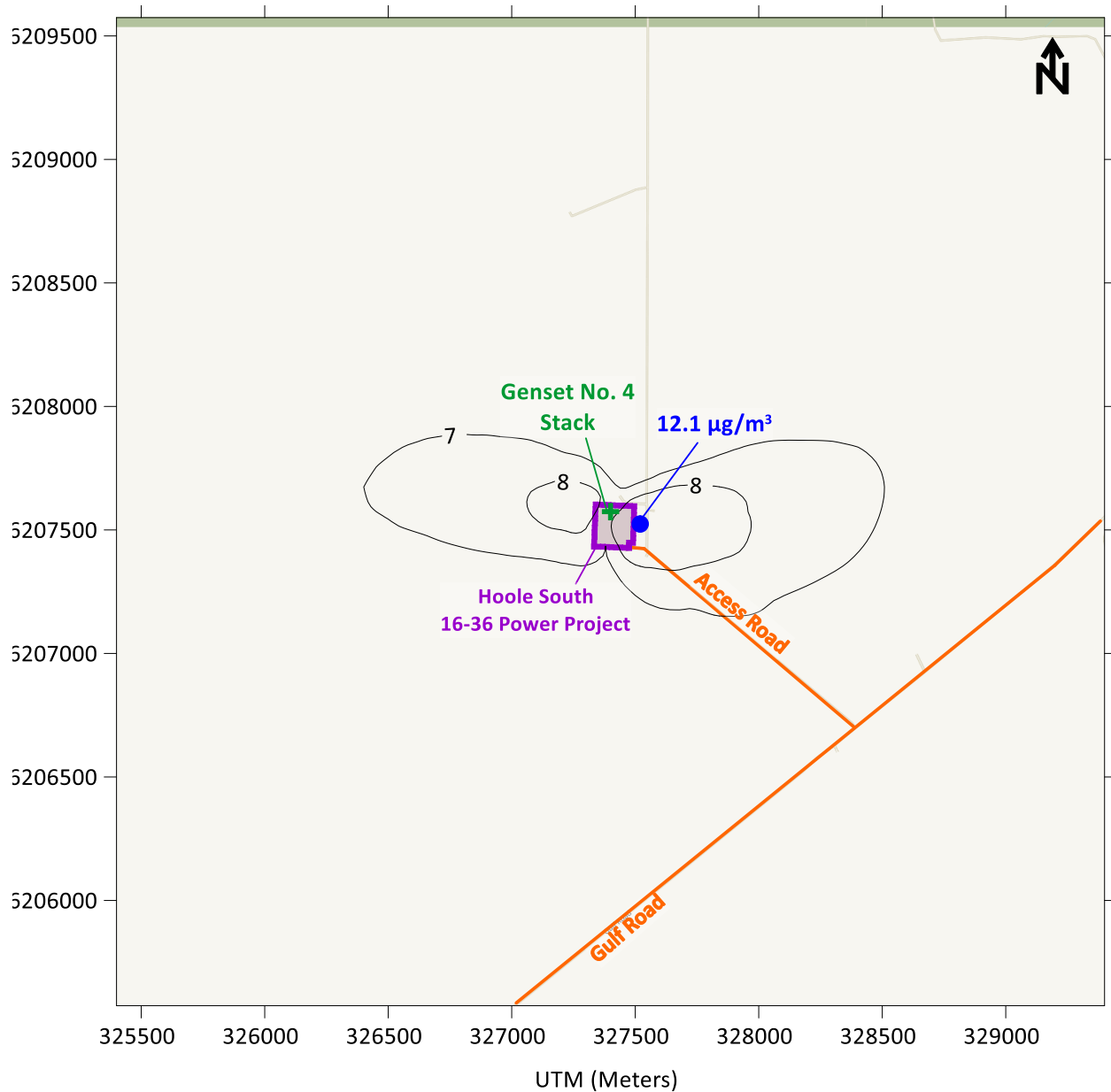


Figure 4 Maximum predicted annual ground-level NO₂ concentrations associated with continuous operation of stationary combustion equipment at the Project, including ambient background concentrations. Isopleths shown include 7 and 8 µg/m³.



4.0 CONCLUSION

As indicated in this revised Assessment, maximum predicted ground-level NO₂ concentrations comply with the applicable AAAQOs when the nine gensets at the Project are equipped with NO_x reduction technology. As such, no significant air quality impact is predicted to occur in association with the operations modelled in this Assessment.



ATTACHMENT A

BPIP INPUT AND OUTPUT FILES



BIPI INPUT FILE

```
'16-36 Hoole South'
'p'
'Meters' 1.0
'UTMY' 0.0
18
MC1      1      0
  4      2.896
        327361.86 6207582.49
        327373.67 6207581.79
        327373.53 6207579.68
        327361.71 6207580.14
MC2      1      0
  4      2.896
        327361.18 6207569.49
        327373.05 6207569.08
        327372.99 6207566.75
        327361.07 6207567.15
MC3      1      0
  4      2.896
        327360.92 6207556.42
        327372.74 6207555.76
        327372.55 6207553.62
        327360.62 6207553.89
MC4      1      0
  4      2.896
        327360.3  6207543.38
        327372.14 6207542.91
        327372.02 6207540.56
        327360.25 6207541.14
MC5      1      0
  4      2.896
        327359.7  6207530.89
        327371.55 6207530.25
        327371.49 6207527.85
        327359.53 6207528.33
MC6      1      0
  4      2.896
        327359.17 6207517.97
        327371.04 6207517.44
        327370.98 6207514.88
        327359.19 6207515.4
MC7      1      0
  4      2.896
        327358.75 6207504.81
        327370.55 6207504.28
        327370.49 6207501.98
        327358.53 6207502.55
MC8      1      0
  4      2.896
        327358.23 6207491.64
        327370.16 6207491.23
        327370.09 6207489.01
        327358.2  6207489.52
MC9      1      0
  4      2.896
        327357.77 6207478.88
        327369.48 6207478.26
        327369.35 6207476.07
        327357.6  6207476.47
MWM1     1      0
```



4	2.896		
	327379.6	6207581.7	
	327393.21	6207581.19	
	327393.01	6207578.92	
	327379.34	6207579.34	
MWM2	1	0	
4	2.896		
	327379.09	6207568.66	
	327392.54	6207568.13	
	327392.53	6207565.83	
	327378.9	6207566.3	
MWM3	1	0	
4	2.896		
	327378.6	6207555.68	
	327392.1	6207555.18	
	327391.94	6207553	
	327378.43	6207553.37	
MWM4	1	0	
4	2.896		
	327378.06	6207543.04	
	327391.65	6207542.37	
	327391.52	6207540.14	
	327377.79	6207540.41	
MWM5	1	0	
4	2.896		
	327377.48	6207530.02	
	327390.92	6207529.64	
	327390.9	6207527.25	
	327377.39	6207527.71	
MWM6	1	0	
4	2.896		
	327377.04	6207517.05	
	327390.5	6207516.41	
	327390.45	6207514.14	
	327376.87	6207514.54	
MWM7	1	0	
4	2.896		
	327376.59	6207504.01	
	327390.06	6207503.45	
	327389.91	6207501.19	
	327376.27	6207501.43	
MWM8	1	0	
4	2.896		
	327376.18	6207491.03	
	327389.43	6207490.54	
	327389.29	6207488.52	
	327375.87	6207488.64	
MWM9	1	0	
4	2.896		
	327375.48	6207478.28	
	327388.91	6207477.63	
	327388.83	6207475.39	
	327375.24	6207475.75	
9			
MWM1	0.0	8.30 327395.57	6207575.79
MWM2	0.0	8.30 327394.95	6207562.92
MWM3	0.0	8.30 327394.82	6207557.91
MWM4	0.0	8.30 327394.02	6207537.19
MWM5	0.0	8.30 327393.83	6207532.18
MWM6	0.0	8.30 327393.01	6207511.32
MWM7	0.0	8.30 327392.83	6207506.35
MWM8	0.0	8.30 327392.05	6207485.48
MWM9	0.0	8.30 327391.69	6207480.23



BPIP OUTPUT FILE

16-36 Hoole South

BPIP (Dated: 04274)

DATE : 7/ 3/2026

TIME : 16:25:27

16-36 Hoole South

=====
BPIP PROCESSING INFORMATION:
=====

The p flag has been set for preparing downwash related data
for a model run utilizing the PRIME algorithm.

Inputs entered in Meters will be converted to meters using
a conversion factor of 1.0000. Output will be in meters.

The UTM variable is set to UTM. The input is assumed to be in
UTM coordinates. BPIP will move the UTM origin to the first pair of
UTM coordinates read. The UTM coordinates of the new origin will
be subtracted from all the other UTM coordinates entered to form
this new local coordinate system.

Plant north is set to 0.00 degrees with respect to True North.

16-36 Hoole South

PRELIMINARY* GEP STACK HEIGHT RESULTS TABLE
(Output Units: meters)

Stack Name	Stack-Building		Preliminary*	
	Stack Height	Base Elevation Differences	GEP** EQN1	GEP Stack Height Value
MWM1	8.30	0.00	7.24	65.00
MWM2	8.30	0.00	7.24	65.00
MWM3	8.30	0.00	7.24	65.00
MWM4	8.30	0.00	7.24	65.00
MWM5	8.30	0.00	7.24	65.00
MWM6	8.30	0.00	7.24	65.00
MWM7	8.30	0.00	7.24	65.00
MWM8	8.30	0.00	7.24	65.00
MWM9	8.30	0.00	7.24	65.00

* Results are based on Determinants 1 & 2 on pages 1 & 2 of the GEP
Technical Support Document. Determinant 3 may be investigated for
additional stack height credit. Final values result after
Determinant 3 has been taken into consideration.

** Results were derived from Equation 1 on page 6 of GEP Technical
Support Document. Values have been adjusted for any stack-building
base elevation differences.

Note: Criteria for determining stack heights for modeling emission
limitations for a source can be found in Table 3.1 of the
GEP Technical Support Document.



BPIP (Dated: 04274)

DATE : 7/ 3/2026
TIME : 16:25:27

16-36 Hoole South

BPIP output is in meters

SO BUILDHGT MWM1	2.90	2.90	2.90	2.90	2.90	2.90
SO BUILDHGT MWM1	2.90	0.00	0.00	2.90	2.90	2.90
SO BUILDHGT MWM1	2.90	2.90	2.90	2.90	2.90	0.00
SO BUILDHGT MWM1	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT MWM1	2.90	0.00	0.00	2.90	2.90	2.90
SO BUILDHGT MWM1	2.90	2.90	2.90	2.90	2.90	0.00
SO BUILDWID MWM1	13.73	13.60	13.05	12.11	10.81	9.17
SO BUILDWID MWM1	7.26	0.00	0.00	4.23	6.48	8.54
SO BUILDWID MWM1	10.33	11.81	12.94	13.67	13.98	0.00
SO BUILDWID MWM1	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID MWM1	7.26	0.00	0.00	4.23	6.48	8.54
SO BUILDWID MWM1	10.33	11.81	12.94	13.67	13.98	0.00
SO BUILDLN MWM1	4.17	6.38	8.40	10.17	11.63	12.73
SO BUILDLN MWM1	13.44	0.00	0.00	13.69	13.55	13.00
SO BUILDLN MWM1	12.06	10.75	9.11	7.20	5.07	0.00
SO BUILDLN MWM1	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDLN MWM1	13.44	0.00	0.00	13.69	13.55	13.00
SO BUILDLN MWM1	12.06	10.75	9.11	7.20	5.07	0.00
SO XBADJ MWM1	-12.24	-14.62	-16.55	-17.99	-18.87	-19.18
SO XBADJ MWM1	-18.91	0.00	0.00	-16.75	-17.03	-16.79
SO XBADJ MWM1	-16.03	-14.79	-13.10	-11.02	-8.59	0.00
SO XBADJ MWM1	0.00	0.00	0.00	0.00	0.00	0.00
SO XBADJ MWM1	5.47	0.00	0.00	3.06	3.48	3.78
SO XBADJ MWM1	3.97	4.04	3.99	3.82	3.53	0.00
SO YBADJ MWM1	8.13	6.25	4.18	1.98	-0.27	-2.52
SO YBADJ MWM1	-4.69	0.00	0.00	2.79	1.03	-0.77
SO YBADJ MWM1	-2.55	-4.24	-5.81	-7.20	-8.38	0.00
SO YBADJ MWM1	0.00	0.00	0.00	0.00	0.00	0.00
SO YBADJ MWM1	4.69	0.00	0.00	-2.79	-1.03	0.77
SO YBADJ MWM1	2.55	4.24	5.81	7.20	8.38	0.00

SO BUILDHGT MWM2	2.90	2.90	2.90	2.90	2.90	2.90
SO BUILDHGT MWM2	2.90	0.00	0.00	2.90	2.90	2.90
SO BUILDHGT MWM2	2.90	2.90	2.90	2.90	0.00	0.00
SO BUILDHGT MWM2	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT MWM2	2.90	0.00	0.00	2.90	2.90	2.90
SO BUILDHGT MWM2	2.90	2.90	2.90	2.90	0.00	0.00
SO BUILDWID MWM2	13.60	13.45	12.89	11.94	10.63	8.99
SO BUILDWID MWM2	7.08	0.00	0.00	4.17	6.38	8.40
SO BUILDWID MWM2	10.17	11.63	12.73	13.44	0.00	0.00
SO BUILDWID MWM2	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID MWM2	7.08	0.00	0.00	4.17	6.38	8.40
SO BUILDWID MWM2	10.17	11.63	12.73	13.44	0.00	0.00
SO BUILDLN MWM2	4.16	6.38	8.40	10.17	11.64	12.74
SO BUILDLN MWM2	13.46	0.00	0.00	13.73	13.60	13.05
SO BUILDLN MWM2	12.11	10.81	9.17	7.26	0.00	0.00
SO BUILDLN MWM2	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDLN MWM2	13.46	0.00	0.00	13.73	13.60	13.05



SO BUILDLEN MWM2	12.11	10.81	9.17	7.26	0.00	0.00
SO XBADJ MWM2	-12.27	-14.62	-16.53	-17.93	-18.79	-19.08
SO XBADJ MWM2	-18.79	0.00	0.00	-16.62	-16.87	-16.61
SO XBADJ MWM2	-15.84	-14.59	-12.90	-10.82	0.00	0.00
SO XBADJ MWM2	0.00	0.00	0.00	0.00	0.00	0.00
SO XBADJ MWM2	5.33	0.00	0.00	2.89	3.27	3.55
SO XBADJ MWM2	3.72	3.78	3.73	3.56	0.00	0.00
SO YBADJ MWM2	8.04	6.16	4.09	1.90	-0.35	-2.59
SO YBADJ MWM2	-4.75	0.00	0.00	2.63	0.88	-0.90
SO YBADJ MWM2	-2.64	-4.31	-5.85	-7.20	0.00	0.00
SO YBADJ MWM2	0.00	0.00	0.00	0.00	0.00	0.00
SO YBADJ MWM2	4.75	0.00	0.00	-2.63	-0.88	0.90
SO YBADJ MWM2	2.64	4.31	5.85	7.20	0.00	0.00

SO BUILDHGT MWM3	0.00	2.90	2.90	2.90	2.90	2.90
SO BUILDHGT MWM3	2.90	2.90	0.00	0.00	0.00	2.90
SO BUILDHGT MWM3	2.90	2.90	2.90	2.90	2.90	0.00
SO BUILDHGT MWM3	0.00	2.90	2.90	2.90	2.90	2.90
SO BUILDHGT MWM3	2.90	2.90	0.00	0.00	0.00	0.00
SO BUILDHGT MWM3	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID MWM3	0.00	13.45	12.89	11.94	10.63	8.99
SO BUILDWID MWM3	7.08	4.96	0.00	0.00	0.00	8.40
SO BUILDWID MWM3	10.17	11.63	12.73	13.44	13.75	0.00
SO BUILDWID MWM3	0.00	13.45	12.89	11.94	10.63	8.99
SO BUILDWID MWM3	7.08	4.96	0.00	0.00	0.00	0.00
SO BUILDWID MWM3	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDLEN MWM3	0.00	6.38	8.40	10.17	11.64	12.74
SO BUILDLEN MWM3	13.46	13.78	0.00	0.00	0.00	13.05
SO BUILDLEN MWM3	12.11	10.81	9.17	7.26	5.12	0.00
SO BUILDLEN MWM3	0.00	6.38	8.40	10.17	11.64	12.74
SO BUILDLEN MWM3	13.46	13.78	0.00	0.00	0.00	0.00
SO BUILDLEN MWM3	0.00	0.00	0.00	0.00	0.00	0.00
SO XBADJ MWM3	0.00	-9.87	-12.13	-14.01	-15.47	-16.46
SO XBADJ MWM3	-16.95	-16.93	0.00	0.00	0.00	-19.00
SO XBADJ MWM3	-18.96	-18.35	-17.17	-15.48	-13.32	0.00
SO XBADJ MWM3	0.00	3.50	3.72	3.84	3.84	3.72
SO XBADJ MWM3	3.49	3.15	0.00	0.00	0.00	0.00
SO XBADJ MWM3	0.00	0.00	0.00	0.00	0.00	0.00
SO YBADJ MWM3	0.00	7.75	6.49	5.02	3.40	1.68
SO YBADJ MWM3	-0.09	-1.86	0.00	0.00	0.00	3.51
SO YBADJ MWM3	1.28	-0.99	-3.23	-5.37	-7.35	0.00
SO YBADJ MWM3	0.00	-7.75	-6.49	-5.02	-3.40	-1.68
SO YBADJ MWM3	0.09	1.86	0.00	0.00	0.00	0.00
SO YBADJ MWM3	0.00	0.00	0.00	0.00	0.00	0.00

SO BUILDHGT MWM4	2.90	2.90	2.90	2.90	2.90	2.90
SO BUILDHGT MWM4	2.90	0.00	0.00	2.90	2.90	2.90
SO BUILDHGT MWM4	2.90	2.90	2.90	2.90	2.90	0.00
SO BUILDHGT MWM4	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT MWM4	2.90	0.00	0.00	2.90	2.90	2.90
SO BUILDHGT MWM4	2.90	2.90	2.90	2.90	2.90	0.00
SO BUILDWID MWM4	13.70	13.56	13.01	12.06	10.75	9.11
SO BUILDWID MWM4	7.19	0.00	0.00	4.34	6.58	8.63
SO BUILDWID MWM4	10.41	11.88	12.98	13.69	13.99	0.00
SO BUILDWID MWM4	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID MWM4	7.19	0.00	0.00	4.34	6.58	8.63
SO BUILDWID MWM4	10.41	11.88	12.98	13.69	13.99	0.00
SO BUILDLEN MWM4	4.25	6.44	8.44	10.18	11.61	12.68
SO BUILDLEN MWM4	13.37	0.00	0.00	13.76	13.64	13.11
SO BUILDLEN MWM4	12.18	10.87	9.24	7.33	5.19	0.00
SO BUILDLEN MWM4	0.00	0.00	0.00	0.00	0.00	0.00



SO BUILDLEN MWM4	13.37	0.00	0.00	13.76	13.64	13.11
SO BUILDLEN MWM4	12.18	10.87	9.24	7.33	5.19	0.00
SO XBADJ MWM4	-12.22	-14.60	-16.52	-17.95	-18.83	-19.14
SO XBADJ MWM4	-18.87	0.00	0.00	-16.73	-17.00	-16.75
SO XBADJ MWM4	-15.99	-14.74	-13.05	-10.96	-8.53	0.00
SO XBADJ MWM4	0.00	0.00	0.00	0.00	0.00	0.00
SO XBADJ MWM4	5.50	0.00	0.00	2.97	3.36	3.64
SO XBADJ MWM4	3.81	3.87	3.80	3.63	3.34	0.00
SO YBADJ MWM4	8.20	6.31	4.24	2.03	-0.23	-2.49
SO YBADJ MWM4	-4.68	0.00	0.00	2.52	0.77	-1.01
SO YBADJ MWM4	-2.76	-4.42	-5.95	-7.30	-8.43	0.00
SO YBADJ MWM4	0.00	0.00	0.00	0.00	0.00	0.00
SO YBADJ MWM4	4.68	0.00	0.00	-2.52	-0.77	1.01
SO YBADJ MWM4	2.76	4.42	5.95	7.30	8.43	0.00
SO BUILDHGT MWM5	0.00	2.90	2.90	2.90	2.90	2.90
SO BUILDHGT MWM5	2.90	2.90	0.00	0.00	0.00	2.90
SO BUILDHGT MWM5	2.90	2.90	2.90	2.90	2.90	0.00
SO BUILDHGT MWM5	0.00	2.90	2.90	2.90	2.90	2.90
SO BUILDHGT MWM5	2.90	2.90	0.00	0.00	0.00	0.00
SO BUILDHGT MWM5	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID MWM5	0.00	13.56	13.01	12.06	10.75	9.11
SO BUILDWID MWM5	7.19	5.06	0.00	0.00	0.00	8.63
SO BUILDWID MWM5	10.41	11.88	12.98	13.69	13.99	0.00
SO BUILDWID MWM5	0.00	13.56	13.01	12.06	10.75	9.11
SO BUILDWID MWM5	7.19	5.06	0.00	0.00	0.00	0.00
SO BUILDWID MWM5	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDLEN MWM5	0.00	6.44	8.44	10.18	11.61	12.68
SO BUILDLEN MWM5	13.37	13.66	0.00	0.00	0.00	13.11
SO BUILDLEN MWM5	12.18	10.87	9.24	7.33	5.19	0.00
SO BUILDLEN MWM5	0.00	6.44	8.44	10.18	11.61	12.68
SO BUILDLEN MWM5	13.37	13.66	0.00	0.00	0.00	0.00
SO BUILDLEN MWM5	0.00	0.00	0.00	0.00	0.00	0.00
SO XBADJ MWM5	0.00	-9.82	-12.09	-13.99	-15.47	-16.47
SO XBADJ MWM5	-16.98	-16.97	0.00	0.00	0.00	-19.09
SO XBADJ MWM5	-19.06	-18.46	-17.29	-15.60	-13.43	0.00
SO XBADJ MWM5	0.00	3.38	3.65	3.82	3.86	3.79
SO XBADJ MWM5	3.60	3.31	0.00	0.00	0.00	0.00
SO XBADJ MWM5	0.00	0.00	0.00	0.00	0.00	0.00
SO YBADJ MWM5	0.00	7.85	6.58	5.11	3.48	1.75
SO YBADJ MWM5	-0.03	-1.82	0.00	0.00	0.00	3.42
SO YBADJ MWM5	1.20	-1.06	-3.28	-5.41	-7.37	0.00
SO YBADJ MWM5	0.00	-7.85	-6.58	-5.11	-3.48	-1.75
SO YBADJ MWM5	0.03	1.82	0.00	0.00	0.00	0.00
SO YBADJ MWM5	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT MWM6	2.90	2.90	2.90	2.90	2.90	2.90
SO BUILDHGT MWM6	2.90	0.00	0.00	2.90	2.90	2.90
SO BUILDHGT MWM6	2.90	2.90	2.90	2.90	0.00	0.00
SO BUILDHGT MWM6	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT MWM6	2.90	0.00	0.00	2.90	2.90	2.90
SO BUILDHGT MWM6	2.90	2.90	2.90	2.90	0.00	0.00
SO BUILDWID MWM6	13.61	13.48	12.95	12.02	10.72	9.10
SO BUILDWID MWM6	7.21	0.00	0.00	4.21	6.42	8.43
SO BUILDWID MWM6	10.19	11.64	12.74	13.45	0.00	0.00
SO BUILDWID MWM6	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID MWM6	7.21	0.00	0.00	4.21	6.42	8.43
SO BUILDWID MWM6	10.19	11.64	12.74	13.45	0.00	0.00
SO BUILDLEN MWM6	4.38	6.61	8.64	10.41	11.86	12.95
SO BUILDLEN MWM6	13.65	0.00	0.00	13.71	13.60	13.07
SO BUILDLEN MWM6	12.14	10.85	9.23	7.32	0.00	0.00



SO BUILDLEN MWM6	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDLEN MWM6	13.65	0.00	0.00	13.71	13.60	13.07
SO BUILDLEN MWM6	12.14	10.85	9.23	7.32	0.00	0.00
SO XBADJ MWM6	-12.65	-15.02	-16.93	-18.34	-19.18	-19.44
SO XBADJ MWM6	-19.11	0.00	0.00	-16.72	-16.97	-16.70
SO XBADJ MWM6	-15.92	-14.65	-12.95	-10.85	0.00	0.00
SO XBADJ MWM6	0.00	0.00	0.00	0.00	0.00	0.00
SO XBADJ MWM6	5.46	0.00	0.00	3.01	3.37	3.63
SO XBADJ MWM6	3.77	3.81	3.72	3.53	0.00	0.00
SO YBADJ MWM6	8.10	6.19	4.09	1.87	-0.41	-2.67
SO YBADJ MWM6	-4.86	0.00	0.00	2.47	0.72	-1.06
SO YBADJ MWM6	-2.81	-4.47	-6.00	-7.34	0.00	0.00
SO YBADJ MWM6	0.00	0.00	0.00	0.00	0.00	0.00
SO YBADJ MWM6	4.86	0.00	0.00	-2.47	-0.72	1.06
SO YBADJ MWM6	2.81	4.47	6.00	7.34	0.00	0.00

SO BUILDHGT MWM7	0.00	2.90	2.90	2.90	2.90	2.90
SO BUILDHGT MWM7	2.90	2.90	0.00	0.00	0.00	2.90
SO BUILDHGT MWM7	2.90	2.90	2.90	2.90	2.90	0.00
SO BUILDHGT MWM7	0.00	2.90	2.90	2.90	2.90	2.90
SO BUILDHGT MWM7	2.90	2.90	0.00	0.00	0.00	0.00
SO BUILDHGT MWM7	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID MWM7	0.00	13.48	12.95	12.02	10.72	9.10
SO BUILDWID MWM7	7.21	5.09	0.00	0.00	0.00	8.43
SO BUILDWID MWM7	10.19	11.64	12.74	13.45	13.75	0.00
SO BUILDWID MWM7	0.00	13.48	12.95	12.02	10.72	9.10
SO BUILDWID MWM7	7.21	5.09	0.00	0.00	0.00	0.00
SO BUILDWID MWM7	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDLEN MWM7	0.00	6.61	8.64	10.41	11.86	12.95
SO BUILDLEN MWM7	13.65	13.93	0.00	0.00	0.00	13.07
SO BUILDLEN MWM7	12.14	10.85	9.23	7.32	5.19	0.00
SO BUILDLEN MWM7	0.00	6.61	8.64	10.41	11.86	12.95
SO BUILDLEN MWM7	13.65	13.93	0.00	0.00	0.00	0.00
SO BUILDLEN MWM7	0.00	0.00	0.00	0.00	0.00	0.00
SO XBADJ MWM7	0.00	-10.29	-12.54	-14.41	-15.85	-16.80
SO XBADJ MWM7	-17.24	-17.16	0.00	0.00	0.00	-19.02
SO XBADJ MWM7	-18.97	-18.35	-17.16	-15.46	-13.28	0.00
SO XBADJ MWM7	0.00	3.67	3.90	4.00	3.99	3.85
SO XBADJ MWM7	3.59	3.23	0.00	0.00	0.00	0.00
SO XBADJ MWM7	0.00	0.00	0.00	0.00	0.00	0.00
SO YBADJ MWM7	0.00	7.72	6.42	4.93	3.29	1.54
SO YBADJ MWM7	-0.25	-2.03	0.00	0.00	0.00	3.33
SO YBADJ MWM7	1.11	-1.14	-3.36	-5.47	-7.42	0.00
SO YBADJ MWM7	0.00	-7.72	-6.42	-4.93	-3.29	-1.54
SO YBADJ MWM7	0.25	2.03	0.00	0.00	0.00	0.00
SO YBADJ MWM7	0.00	0.00	0.00	0.00	0.00	0.00

SO BUILDHGT MWM8	2.90	2.90	2.90	2.90	2.90	2.90
SO BUILDHGT MWM8	2.90	0.00	0.00	2.90	2.90	2.90
SO BUILDHGT MWM8	2.90	2.90	2.90	2.90	0.00	0.00
SO BUILDHGT MWM8	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT MWM8	2.90	0.00	0.00	2.90	2.90	2.90
SO BUILDHGT MWM8	2.90	2.90	2.90	2.90	0.00	0.00
SO BUILDWID MWM8	13.65	13.53	13.01	12.08	10.80	9.18
SO BUILDWID MWM8	7.28	0.00	0.00	4.23	6.42	8.43
SO BUILDWID MWM8	10.17	11.61	12.69	13.39	0.00	0.00
SO BUILDWID MWM8	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID MWM8	7.28	0.00	0.00	4.23	6.42	8.43
SO BUILDWID MWM8	10.17	11.61	12.69	13.39	0.00	0.00
SO BUILDLEN MWM8	4.23	6.44	8.46	10.23	11.68	12.78
SO BUILDLEN MWM8	13.49	0.00	0.00	13.35	13.18	12.61



SO BUILDLEN MWM8	11.66	10.35	8.73	6.84	0.00	0.00
SO BUILDLEN MWM8	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDLEN MWM8	13.49	0.00	0.00	13.35	13.18	12.61
SO BUILDLEN MWM8	11.66	10.35	8.73	6.84	0.00	0.00
SO XBADJ MWM8	-12.50	-14.89	-16.83	-18.26	-19.13	-19.42
SO XBADJ MWM8	-19.12	0.00	0.00	-16.59	-16.81	-16.52
SO XBADJ MWM8	-15.72	-14.45	-12.74	-10.64	0.00	0.00
SO XBADJ MWM8	0.00	0.00	0.00	0.00	0.00	0.00
SO XBADJ MWM8	5.64	0.00	0.00	3.25	3.63	3.91
SO XBADJ MWM8	4.07	4.10	4.01	3.80	0.00	0.00
SO YBADJ MWM8	8.24	6.34	4.25	2.02	-0.26	-2.54
SO YBADJ MWM8	-4.74	0.00	0.00	2.42	0.65	-1.14
SO YBADJ MWM8	-2.89	-4.56	-6.09	-7.43	0.00	0.00
SO YBADJ MWM8	0.00	0.00	0.00	0.00	0.00	0.00
SO YBADJ MWM8	4.74	0.00	0.00	-2.42	-0.65	1.14
SO YBADJ MWM8	2.89	4.56	6.09	7.43	0.00	0.00

SO BUILDHGT MWM9	0.00	2.90	2.90	2.90	2.90	2.90
SO BUILDHGT MWM9	2.90	2.90	0.00	0.00	0.00	2.90
SO BUILDHGT MWM9	2.90	2.90	2.90	2.90	2.90	0.00
SO BUILDHGT MWM9	0.00	2.90	2.90	2.90	2.90	2.90
SO BUILDHGT MWM9	2.90	2.90	0.00	0.00	0.00	0.00
SO BUILDHGT MWM9	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDWID MWM9	0.00	13.53	13.01	12.08	10.80	9.18
SO BUILDWID MWM9	7.28	5.16	0.00	0.00	0.00	8.43
SO BUILDWID MWM9	10.17	11.61	12.69	13.39	13.68	0.00
SO BUILDWID MWM9	0.00	13.53	13.01	12.08	10.80	9.18
SO BUILDWID MWM9	7.28	5.16	0.00	0.00	0.00	0.00
SO BUILDWID MWM9	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDLEN MWM9	0.00	6.44	8.46	10.23	11.68	12.78
SO BUILDLEN MWM9	13.49	13.79	0.00	0.00	0.00	12.61
SO BUILDLEN MWM9	11.66	10.35	8.73	6.84	4.75	0.00
SO BUILDLEN MWM9	0.00	6.44	8.46	10.23	11.68	12.78
SO BUILDLEN MWM9	13.49	13.79	0.00	0.00	0.00	0.00
SO BUILDLEN MWM9	0.00	0.00	0.00	0.00	0.00	0.00
SO XBADJ MWM9	0.00	-9.84	-12.10	-14.01	-15.48	-16.49
SO XBADJ MWM9	-16.99	-16.98	0.00	0.00	0.00	-18.83
SO XBADJ MWM9	-18.82	-18.24	-17.11	-15.45	-13.33	0.00
SO XBADJ MWM9	0.00	3.39	3.64	3.78	3.80	3.71
SO XBADJ MWM9	3.50	3.19	0.00	0.00	0.00	0.00
SO XBADJ MWM9	0.00	0.00	0.00	0.00	0.00	0.00
SO YBADJ MWM9	0.00	7.80	6.56	5.12	3.53	1.83
SO YBADJ MWM9	0.07	-1.69	0.00	0.00	0.00	3.59
SO YBADJ MWM9	1.36	-0.91	-3.15	-5.29	-7.28	0.00
SO YBADJ MWM9	0.00	-7.80	-6.56	-5.12	-3.53	-1.83
SO YBADJ MWM9	-0.07	1.69	0.00	0.00	0.00	0.00
SO YBADJ MWM9	0.00	0.00	0.00	0.00	0.00	0.00



ATTACHMENT B

**NO₂ DISPERSION MODELLING
INPUT AND OUTPUT FILES**



ONE-HOUR AVERAGE NO₂ INPUT FILE

CO STARTING
TITLEONE Armada 16-36 Hoole South
MODELOPT CONC ELEV PVMRM BETA
AVERTIME 1
POLLUTID NO2 H1H
OZONEFIL "C:\Modelling\O3rur.txt" ppm
NO2EQUIL 0.90
NO2STACK 0.20
RUNORNOT RUN
ERRORFIL ERRORS.OUT
CO FINISHED

SO STARTING

LOCATION MWM1	POINTHOR	327395.57	6207575.79	567.00
LOCATION MWM2	POINTHOR	327394.95	6207562.92	567.00
LOCATION MWM3	POINTHOR	327394.82	6207557.91	567.00
LOCATION MWM4	POINTHOR	327394.02	6207537.19	567.00
LOCATION MWM5	POINTHOR	327393.83	6207532.18	567.00
LOCATION MWM6	POINTHOR	327393.01	6207511.32	567.00
LOCATION MWM7	POINTHOR	327392.83	6207506.35	567.00
LOCATION MWM8	POINTHOR	327392.05	6207485.48	567.00
LOCATION MWM9	POINTHOR	327391.69	6207480.23	567.00

**Point Source Qs Hs Ts Vs Ds
**Parameters: --- --- --- --- ---
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SRCPARAM MWM1	0.1833	8.30	673.15	9.79	0.6300
SRCPARAM MWM2	0.1833	8.30	673.15	9.79	0.6300
SRCPARAM MWM3	0.1833	8.30	673.15	9.79	0.6300
SRCPARAM MWM4	0.1833	8.30	673.15	9.79	0.6300
SRCPARAM MWM5	0.1833	8.30	673.15	9.79	0.6300
SRCPARAM MWM6	0.1833	8.30	673.15	9.79	0.6300
SRCPARAM MWM7	0.1833	8.30	673.15	9.79	0.6300
SRCPARAM MWM8	0.1833	8.30	673.15	9.79	0.6300
SRCPARAM MWM9	0.1833	8.30	673.15	9.79	0.6300

SO BUILDHGT MWM1	2.9	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT MWM1	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT MWM1	2.9	2.9	2.9	2.9	2.9	0
SO BUILDHGT MWM1	0	0	0	0	0	0
SO BUILDHGT MWM1	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT MWM1	2.9	2.9	2.9	2.9	2.9	0
SO BUILDWID MWM1	13.73	13.6	13.05	12.11	10.81	9.17
SO BUILDWID MWM1	7.26	0	0	4.23	6.48	8.54
SO BUILDWID MWM1	10.33	11.81	12.94	13.67	13.98	0
SO BUILDWID MWM1	0	0	0	0	0	0
SO BUILDWID MWM1	7.26	0	0	4.23	6.48	8.54
SO BUILDWID MWM1	10.33	11.81	12.94	13.67	13.98	0
SO BUILDLN MWM1	4.17	6.38	8.4	10.17	11.63	12.73
SO BUILDLN MWM1	13.44	0	0	13.69	13.55	13
SO BUILDLN MWM1	12.06	10.75	9.11	7.2	5.07	0
SO BUILDLN MWM1	0	0	0	0	0	0
SO BUILDLN MWM1	13.44	0	0	13.69	13.55	13
SO BUILDLN MWM1	12.06	10.75	9.11	7.2	5.07	0
SO XBADJ MWM1	-12.24	-14.62	-16.55	-17.99	-18.87	-19.18
SO XBADJ MWM1	-18.91	0	0	-16.75	-17.03	-16.79
SO XBADJ MWM1	-16.03	-14.79	-13.1	-11.02	-8.59	0
SO XBADJ MWM1	0	0	0	0	0	0
SO XBADJ MWM1	5.47	0	0	3.06	3.48	3.78



SO XBADJ	MWM1	3.97	4.04	3.99	3.82	3.53	0
SO YBADJ	MWM1	8.13	6.25	4.18	1.98	-0.27	-2.52
SO YBADJ	MWM1	-4.69	0	0	2.79	1.03	-0.77
SO YBADJ	MWM1	-2.55	-4.24	-5.81	-7.2	-8.38	0
SO YBADJ	MWM1	0	0	0	0	0	0
SO YBADJ	MWM1	4.69	0	0	-2.79	-1.03	0.77
SO YBADJ	MWM1	2.55	4.24	5.81	7.2	8.38	0
SO BUILDHGT	MWM2	2.9	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM2	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM2	2.9	2.9	2.9	2.9	0	0
SO BUILDHGT	MWM2	0	0	0	0	0	0
SO BUILDHGT	MWM2	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM2	2.9	2.9	2.9	2.9	0	0
SO BUILDWID	MWM2	13.6	13.45	12.89	11.94	10.63	8.99
SO BUILDWID	MWM2	7.08	0	0	4.17	6.38	8.4
SO BUILDWID	MWM2	10.17	11.63	12.73	13.44	0	0
SO BUILDWID	MWM2	0	0	0	0	0	0
SO BUILDWID	MWM2	7.08	0	0	4.17	6.38	8.4
SO BUILDWID	MWM2	10.17	11.63	12.73	13.44	0	0
SO BUILDLN	MWM2	4.16	6.38	8.4	10.17	11.64	12.74
SO BUILDLN	MWM2	13.46	0	0	13.73	13.6	13.05
SO BUILDLN	MWM2	12.11	10.81	9.17	7.26	0	0
SO BUILDLN	MWM2	0	0	0	0	0	0
SO BUILDLN	MWM2	13.46	0	0	13.73	13.6	13.05
SO BUILDLN	MWM2	12.11	10.81	9.17	7.26	0	0
SO XBADJ	MWM2	-12.27	-14.62	-16.53	-17.93	-18.79	-19.08
SO XBADJ	MWM2	-18.79	0	0	-16.62	-16.87	-16.61
SO XBADJ	MWM2	-15.84	-14.59	-12.9	-10.82	0	0
SO XBADJ	MWM2	0	0	0	0	0	0
SO XBADJ	MWM2	5.33	0	0	2.89	3.27	3.55
SO XBADJ	MWM2	3.72	3.78	3.73	3.56	0	0
SO YBADJ	MWM2	8.04	6.16	4.09	1.9	-0.35	-2.59
SO YBADJ	MWM2	-4.75	0	0	2.63	0.88	-0.9
SO YBADJ	MWM2	-2.64	-4.31	-5.85	-7.2	0	0
SO YBADJ	MWM2	0	0	0	0	0	0
SO YBADJ	MWM2	4.75	0	0	-2.63	-0.88	0.9
SO YBADJ	MWM2	2.64	4.31	5.85	7.2	0	0
SO BUILDHGT	MWM3	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM3	2.9	2.9	0	0	0	2.9
SO BUILDHGT	MWM3	2.9	2.9	2.9	2.9	2.9	0
SO BUILDHGT	MWM3	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM3	2.9	2.9	0	0	0	0
SO BUILDHGT	MWM3	0	0	0	0	0	0
SO BUILDWID	MWM3	0	13.45	12.89	11.94	10.63	8.99
SO BUILDWID	MWM3	7.08	4.96	0	0	0	8.4
SO BUILDWID	MWM3	10.17	11.63	12.73	13.44	13.75	0
SO BUILDWID	MWM3	0	13.45	12.89	11.94	10.63	8.99
SO BUILDWID	MWM3	7.08	4.96	0	0	0	0
SO BUILDWID	MWM3	0	0	0	0	0	0
SO BUILDLN	MWM3	0	6.38	8.4	10.17	11.64	12.74
SO BUILDLN	MWM3	13.46	13.78	0	0	0	13.05
SO BUILDLN	MWM3	12.11	10.81	9.17	7.26	5.12	0
SO BUILDLN	MWM3	0	6.38	8.4	10.17	11.64	12.74
SO BUILDLN	MWM3	13.46	13.78	0	0	0	0
SO BUILDLN	MWM3	0	0	0	0	0	0
SO XBADJ	MWM3	0	-9.87	-12.13	-14.01	-15.47	-16.46
SO XBADJ	MWM3	-16.95	-16.93	0	0	0	-19
SO XBADJ	MWM3	-18.96	-18.35	-17.17	-15.48	-13.32	0
SO XBADJ	MWM3	0	3.5	3.72	3.84	3.84	3.72



SO XBADJ	MWM3	3.49	3.15	0	0	0	0
SO XBADJ	MWM3	0	0	0	0	0	0
SO YBADJ	MWM3	0	7.75	6.49	5.02	3.4	1.68
SO YBADJ	MWM3	-0.09	-1.86	0	0	0	3.51
SO YBADJ	MWM3	1.28	-0.99	-3.23	-5.37	-7.35	0
SO YBADJ	MWM3	0	-7.75	-6.49	-5.02	-3.4	-1.68
SO YBADJ	MWM3	0.09	1.86	0	0	0	0
SO YBADJ	MWM3	0	0	0	0	0	0

SO BUILDHGT	MWM4	2.9	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM4	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM4	2.9	2.9	2.9	2.9	2.9	0
SO BUILDHGT	MWM4	0	0	0	0	0	0
SO BUILDHGT	MWM4	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM4	2.9	2.9	2.9	2.9	2.9	0
SO BUILDWID	MWM4	13.7	13.56	13.01	12.06	10.75	9.11
SO BUILDWID	MWM4	7.19	0	0	4.34	6.58	8.63
SO BUILDWID	MWM4	10.41	11.88	12.98	13.69	13.99	0
SO BUILDWID	MWM4	0	0	0	0	0	0
SO BUILDWID	MWM4	7.19	0	0	4.34	6.58	8.63
SO BUILDWID	MWM4	10.41	11.88	12.98	13.69	13.99	0
SO BUILDLEN	MWM4	4.25	6.44	8.44	10.18	11.61	12.68
SO BUILDLEN	MWM4	13.37	0	0	13.76	13.64	13.11
SO BUILDLEN	MWM4	12.18	10.87	9.24	7.33	5.19	0
SO BUILDLEN	MWM4	0	0	0	0	0	0
SO BUILDLEN	MWM4	13.37	0	0	13.76	13.64	13.11
SO BUILDLEN	MWM4	12.18	10.87	9.24	7.33	5.19	0
SO XBADJ	MWM4	-12.22	-14.6	-16.52	-17.95	-18.83	-19.14
SO XBADJ	MWM4	-18.87	0	0	-16.73	-17	-16.75
SO XBADJ	MWM4	-15.99	-14.74	-13.05	-10.96	-8.53	0
SO XBADJ	MWM4	0	0	0	0	0	0
SO XBADJ	MWM4	5.5	0	0	2.97	3.36	3.64
SO XBADJ	MWM4	3.81	3.87	3.8	3.63	3.34	0
SO YBADJ	MWM4	8.2	6.31	4.24	2.03	-0.23	-2.49
SO YBADJ	MWM4	-4.68	0	0	2.52	0.77	-1.01
SO YBADJ	MWM4	-2.76	-4.42	-5.95	-7.3	-8.43	0
SO YBADJ	MWM4	0	0	0	0	0	0
SO YBADJ	MWM4	4.68	0	0	-2.52	-0.77	1.01
SO YBADJ	MWM4	2.76	4.42	5.95	7.3	8.43	0

SO BUILDHGT	MWM5	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM5	2.9	2.9	0	0	0	2.9
SO BUILDHGT	MWM5	2.9	2.9	2.9	2.9	2.9	0
SO BUILDHGT	MWM5	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM5	2.9	2.9	0	0	0	0
SO BUILDHGT	MWM5	0	0	0	0	0	0
SO BUILDWID	MWM5	0	13.56	13.01	12.06	10.75	9.11
SO BUILDWID	MWM5	7.19	5.06	0	0	0	8.63
SO BUILDWID	MWM5	10.41	11.88	12.98	13.69	13.99	0
SO BUILDWID	MWM5	0	13.56	13.01	12.06	10.75	9.11
SO BUILDWID	MWM5	7.19	5.06	0	0	0	0
SO BUILDWID	MWM5	0	0	0	0	0	0
SO BUILDLEN	MWM5	0	6.44	8.44	10.18	11.61	12.68
SO BUILDLEN	MWM5	13.37	13.66	0	0	0	13.11
SO BUILDLEN	MWM5	12.18	10.87	9.24	7.33	5.19	0
SO BUILDLEN	MWM5	0	6.44	8.44	10.18	11.61	12.68
SO BUILDLEN	MWM5	13.37	13.66	0	0	0	0
SO BUILDLEN	MWM5	0	0	0	0	0	0
SO XBADJ	MWM5	0	-9.82	-12.09	-13.99	-15.47	-16.47
SO XBADJ	MWM5	-16.98	-16.97	0	0	0	-19.09
SO XBADJ	MWM5	-19.06	-18.46	-17.29	-15.6	-13.43	0



SO XBADJ	MWM5	0	3.38	3.65	3.82	3.86	3.79
SO XBADJ	MWM5	3.6	3.31	0	0	0	0
SO XBADJ	MWM5	0	0	0	0	0	0
SO YBADJ	MWM5	0	7.85	6.58	5.11	3.48	1.75
SO YBADJ	MWM5	-0.03	-1.82	0	0	0	3.42
SO YBADJ	MWM5	1.2	-1.06	-3.28	-5.41	-7.37	0
SO YBADJ	MWM5	0	-7.85	-6.58	-5.11	-3.48	-1.75
SO YBADJ	MWM5	0.03	1.82	0	0	0	0
SO YBADJ	MWM5	0	0	0	0	0	0

SO BUILDHGT	MWM6	2.9	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM6	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM6	2.9	2.9	2.9	2.9	0	0
SO BUILDHGT	MWM6	0	0	0	0	0	0
SO BUILDHGT	MWM6	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM6	2.9	2.9	2.9	2.9	0	0
SO BUILDWID	MWM6	13.61	13.48	12.95	12.02	10.72	9.1
SO BUILDWID	MWM6	7.21	0	0	4.21	6.42	8.43
SO BUILDWID	MWM6	10.19	11.64	12.74	13.45	0	0
SO BUILDWID	MWM6	0	0	0	0	0	0
SO BUILDWID	MWM6	7.21	0	0	4.21	6.42	8.43
SO BUILDWID	MWM6	10.19	11.64	12.74	13.45	0	0
SO BUILDLN	MWM6	4.38	6.61	8.64	10.41	11.86	12.95
SO BUILDLN	MWM6	13.65	0	0	13.71	13.6	13.07
SO BUILDLN	MWM6	12.14	10.85	9.23	7.32	0	0
SO BUILDLN	MWM6	0	0	0	0	0	0
SO BUILDLN	MWM6	13.65	0	0	13.71	13.6	13.07
SO BUILDLN	MWM6	12.14	10.85	9.23	7.32	0	0
SO XBADJ	MWM6	-12.65	-15.02	-16.93	-18.34	-19.18	-19.44
SO XBADJ	MWM6	-19.11	0	0	-16.72	-16.97	-16.7
SO XBADJ	MWM6	-15.92	-14.65	-12.95	-10.85	0	0
SO XBADJ	MWM6	0	0	0	0	0	0
SO XBADJ	MWM6	5.46	0	0	3.01	3.37	3.63
SO XBADJ	MWM6	3.77	3.81	3.72	3.53	0	0
SO YBADJ	MWM6	8.1	6.19	4.09	1.87	-0.41	-2.67
SO YBADJ	MWM6	-4.86	0	0	2.47	0.72	-1.06
SO YBADJ	MWM6	-2.81	-4.47	-6	-7.34	0	0
SO YBADJ	MWM6	0	0	0	0	0	0
SO YBADJ	MWM6	4.86	0	0	-2.47	-0.72	1.06
SO YBADJ	MWM6	2.81	4.47	6	7.34	0	0

SO BUILDHGT	MWM7	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM7	2.9	2.9	0	0	0	2.9
SO BUILDHGT	MWM7	2.9	2.9	2.9	2.9	2.9	0
SO BUILDHGT	MWM7	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM7	2.9	2.9	0	0	0	0
SO BUILDHGT	MWM7	0	0	0	0	0	0
SO BUILDWID	MWM7	0	13.48	12.95	12.02	10.72	9.1
SO BUILDWID	MWM7	7.21	5.09	0	0	0	8.43
SO BUILDWID	MWM7	10.19	11.64	12.74	13.45	13.75	0
SO BUILDWID	MWM7	0	13.48	12.95	12.02	10.72	9.1
SO BUILDWID	MWM7	7.21	5.09	0	0	0	0
SO BUILDWID	MWM7	0	0	0	0	0	0
SO BUILDLN	MWM7	0	6.61	8.64	10.41	11.86	12.95
SO BUILDLN	MWM7	13.65	13.93	0	0	0	13.07
SO BUILDLN	MWM7	12.14	10.85	9.23	7.32	5.19	0
SO BUILDLN	MWM7	0	6.61	8.64	10.41	11.86	12.95
SO BUILDLN	MWM7	13.65	13.93	0	0	0	0
SO BUILDLN	MWM7	0	0	0	0	0	0
SO XBADJ	MWM7	0	-10.29	-12.54	-14.41	-15.85	-16.8
SO XBADJ	MWM7	-17.24	-17.16	0	0	0	-19.02



SO XBADJ	MWM7	-18.97	-18.35	-17.16	-15.46	-13.28	0
SO XBADJ	MWM7	0	3.67	3.9	4	3.99	3.85
SO XBADJ	MWM7	3.59	3.23	0	0	0	0
SO XBADJ	MWM7	0	0	0	0	0	0
SO YBADJ	MWM7	0	7.72	6.42	4.93	3.29	1.54
SO YBADJ	MWM7	-0.25	-2.03	0	0	0	3.33
SO YBADJ	MWM7	1.11	-1.14	-3.36	-5.47	-7.42	0
SO YBADJ	MWM7	0	-7.72	-6.42	-4.93	-3.29	-1.54
SO YBADJ	MWM7	0.25	2.03	0	0	0	0
SO YBADJ	MWM7	0	0	0	0	0	0

SO BUILDHGT	MWM8	2.9	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM8	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM8	2.9	2.9	2.9	2.9	0	0
SO BUILDHGT	MWM8	0	0	0	0	0	0
SO BUILDHGT	MWM8	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM8	2.9	2.9	2.9	2.9	0	0
SO BUILDWID	MWM8	13.65	13.53	13.01	12.08	10.8	9.18
SO BUILDWID	MWM8	7.28	0	0	4.23	6.42	8.43
SO BUILDWID	MWM8	10.17	11.61	12.69	13.39	0	0
SO BUILDWID	MWM8	0	0	0	0	0	0
SO BUILDWID	MWM8	7.28	0	0	4.23	6.42	8.43
SO BUILDWID	MWM8	10.17	11.61	12.69	13.39	0	0
SO BUILDLEN	MWM8	4.23	6.44	8.46	10.23	11.68	12.78
SO BUILDLEN	MWM8	13.49	0	0	13.35	13.18	12.61
SO BUILDLEN	MWM8	11.66	10.35	8.73	6.84	0	0
SO BUILDLEN	MWM8	0	0	0	0	0	0
SO BUILDLEN	MWM8	13.49	0	0	13.35	13.18	12.61
SO BUILDLEN	MWM8	11.66	10.35	8.73	6.84	0	0
SO XBADJ	MWM8	-12.5	-14.89	-16.83	-18.26	-19.13	-19.42
SO XBADJ	MWM8	-19.12	0	0	-16.59	-16.81	-16.52
SO XBADJ	MWM8	-15.72	-14.45	-12.74	-10.64	0	0
SO XBADJ	MWM8	0	0	0	0	0	0
SO XBADJ	MWM8	5.64	0	0	3.25	3.63	3.91
SO XBADJ	MWM8	4.07	4.1	4.01	3.8	0	0
SO YBADJ	MWM8	8.24	6.34	4.25	2.02	-0.26	-2.54
SO YBADJ	MWM8	-4.74	0	0	2.42	0.65	-1.14
SO YBADJ	MWM8	-2.89	-4.56	-6.09	-7.43	0	0
SO YBADJ	MWM8	0	0	0	0	0	0
SO YBADJ	MWM8	4.74	0	0	-2.42	-0.65	1.14
SO YBADJ	MWM8	2.89	4.56	6.09	7.43	0	0

SO BUILDHGT	MWM9	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM9	2.9	2.9	0	0	0	2.9
SO BUILDHGT	MWM9	2.9	2.9	2.9	2.9	2.9	0
SO BUILDHGT	MWM9	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM9	2.9	2.9	0	0	0	0
SO BUILDHGT	MWM9	0	0	0	0	0	0
SO BUILDWID	MWM9	0	13.53	13.01	12.08	10.8	9.18
SO BUILDWID	MWM9	7.28	5.16	0	0	0	8.43
SO BUILDWID	MWM9	10.17	11.61	12.69	13.39	13.68	0
SO BUILDWID	MWM9	0	13.53	13.01	12.08	10.8	9.18
SO BUILDWID	MWM9	7.28	5.16	0	0	0	0
SO BUILDWID	MWM9	0	0	0	0	0	0
SO BUILDLEN	MWM9	0	6.44	8.46	10.23	11.68	12.78
SO BUILDLEN	MWM9	13.49	13.79	0	0	0	12.61
SO BUILDLEN	MWM9	11.66	10.35	8.73	6.84	4.75	0
SO BUILDLEN	MWM9	0	6.44	8.46	10.23	11.68	12.78
SO BUILDLEN	MWM9	13.49	13.79	0	0	0	0
SO BUILDLEN	MWM9	0	0	0	0	0	0
SO XBADJ	MWM9	0	-9.84	-12.1	-14.01	-15.48	-16.49



B-7

Armada Nowlit Energy Ltd.
Hoole South 16-36 Power Project
Revised Dispersion Modelling Assessment
July 13, 2026

SO XBADJ	MWM9	-16.99	-16.98	0	0	0	-18.83
SO XBADJ	MWM9	-18.82	-18.24	-17.11	-15.45	-13.33	0
SO XBADJ	MWM9	0	3.39	3.64	3.78	3.8	3.71
SO XBADJ	MWM9	3.5	3.19	0	0	0	0
SO XBADJ	MWM9	0	0	0	0	0	0
SO YBADJ	MWM9	0	7.8	6.56	5.12	3.53	1.83
SO YBADJ	MWM9	0.07	-1.69	0	0	0	3.59
SO YBADJ	MWM9	1.36	-0.91	-3.15	-5.29	-7.28	0
SO YBADJ	MWM9	0	-7.8	-6.56	-5.12	-3.53	-1.83
SO YBADJ	MWM9	-0.07	1.69	0	0	0	0
SO YBADJ	MWM9	0	0	0	0	0	0

SRCGROUP ALL
SO FINISHED

RE STARTING
INCLUDED "C:\Modelling\Armada\16-36\receptors.ROU"
RE FINISHED

ME STARTING
SURFFILE "C:\Modelling\Armada\16-36\aermet.SFC"
PROFFILE "C:\Modelling\Armada\16-36\aermet.PFL"
SURFDATA 12345 2015
UAIRDATA 12345678 2015
PROFBASE 579. METERS
STARTEND 17 01 01 17 12 31
ME FINISHED

OU STARTING
RECTABLE ALLAVE ninth
MAXTABLE ALLAVE 100
PLOTFILE 1 ALL ninth 1h17.plt
SUMMFILE max.SUM
OU FINISHED



ONE-HOUR AVERAGE NO₂ OUTPUT FILE

*** AERMOD - VERSION 24142 *** *** Armada 16-36 Hoole South *** 07/10/26
*** AERMET - VERSION 24142 *** *** *** 11:51:52

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*** MODELOPTs: NonDEFAULT CONC ELEV PVMRM BETA RURAL ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NO2 IN MICROGRAMS/M**3 **

GROUP ID	DATE	NETWORK	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE
GRID-ID	AVERAGE CONC (YYMMDDHH)			

ALL HIGH 9TH HIGH VALUE IS **84.59648** ON 17102818: AT (327475.00, 6207448.00, 565.56, 565.56, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR



ANNUAL NO₂ INPUT FILE

CO STARTING
TITLEONE Armada 16-36 Hoole South
MODELOPT CONC ELEV PVMRM BETA
AVERTIME Annual
POLLUTID NO2
OZONEFIL "C:\Modelling\O3rur.txt" ppm
NO2EQUIL 0.90
NO2STACK 0.20
RUNORNOT RUN
ERRORFIL ERRORS.OUT
CO FINISHED

SO STARTING
LOCATION MWM1 POINTHOR 327395.57 6207575.79 567.00
LOCATION MWM2 POINTHOR 327394.95 6207562.92 567.00
LOCATION MWM3 POINTHOR 327394.82 6207557.91 567.00
LOCATION MWM4 POINTHOR 327394.02 6207537.19 567.00
LOCATION MWM5 POINTHOR 327393.83 6207532.18 567.00
LOCATION MWM6 POINTHOR 327393.01 6207511.32 567.00
LOCATION MWM7 POINTHOR 327392.83 6207506.35 567.00
LOCATION MWM8 POINTHOR 327392.05 6207485.48 567.00
LOCATION MWM9 POINTHOR 327391.69 6207480.23 567.00

**Point Source Qs Hs Ts Vs Ds
**Parameters: --- --- --- --- ---
**
SRCPARAM MWM1 0.1833 8.30 673.15 9.79 0.6300
SRCPARAM MWM2 0.1833 8.30 673.15 9.79 0.6300
SRCPARAM MWM3 0.1833 8.30 673.15 9.79 0.6300
SRCPARAM MWM4 0.1833 8.30 673.15 9.79 0.6300
SRCPARAM MWM5 0.1833 8.30 673.15 9.79 0.6300
SRCPARAM MWM6 0.1833 8.30 673.15 9.79 0.6300
SRCPARAM MWM7 0.1833 8.30 673.15 9.79 0.6300
SRCPARAM MWM8 0.1833 8.30 673.15 9.79 0.6300
SRCPARAM MWM9 0.1833 8.30 673.15 9.79 0.6300

SO BUILDHGT MWM1 2.9 2.9 2.9 2.9 2.9 2.9
SO BUILDHGT MWM1 2.9 0 0 2.9 2.9 2.9
SO BUILDHGT MWM1 2.9 2.9 2.9 2.9 2.9 0
SO BUILDHGT MWM1 0 0 0 0 0 0
SO BUILDHGT MWM1 2.9 0 0 2.9 2.9 2.9
SO BUILDHGT MWM1 2.9 2.9 2.9 2.9 2.9 0
SO BUILDWID MWM1 13.73 13.6 13.05 12.11 10.81 9.17
SO BUILDWID MWM1 7.26 0 0 4.23 6.48 8.54
SO BUILDWID MWM1 10.33 11.81 12.94 13.67 13.98 0
SO BUILDWID MWM1 0 0 0 0 0 0
SO BUILDWID MWM1 7.26 0 0 4.23 6.48 8.54
SO BUILDWID MWM1 10.33 11.81 12.94 13.67 13.98 0
SO BUILDLEN MWM1 4.17 6.38 8.4 10.17 11.63 12.73
SO BUILDLEN MWM1 13.44 0 0 13.69 13.55 13
SO BUILDLEN MWM1 12.06 10.75 9.11 7.2 5.07 0
SO BUILDLEN MWM1 0 0 0 0 0 0
SO BUILDLEN MWM1 13.44 0 0 13.69 13.55 13
SO BUILDLEN MWM1 12.06 10.75 9.11 7.2 5.07 0
SO XBADJ MWM1 -12.24 -14.62 -16.55 -17.99 -18.87 -19.18
SO XBADJ MWM1 -18.91 0 0 -16.75 -17.03 -16.79
SO XBADJ MWM1 -16.03 -14.79 -13.1 -11.02 -8.59 0
SO XBADJ MWM1 0 0 0 0 0 0
SO XBADJ MWM1 5.47 0 0 3.06 3.48 3.78



SO XBADJ	MWM1	3.97	4.04	3.99	3.82	3.53	0
SO YBADJ	MWM1	8.13	6.25	4.18	1.98	-0.27	-2.52
SO YBADJ	MWM1	-4.69	0	0	2.79	1.03	-0.77
SO YBADJ	MWM1	-2.55	-4.24	-5.81	-7.2	-8.38	0
SO YBADJ	MWM1	0	0	0	0	0	0
SO YBADJ	MWM1	4.69	0	0	-2.79	-1.03	0.77
SO YBADJ	MWM1	2.55	4.24	5.81	7.2	8.38	0
SO BUILDHGT	MWM2	2.9	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM2	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM2	2.9	2.9	2.9	2.9	0	0
SO BUILDHGT	MWM2	0	0	0	0	0	0
SO BUILDHGT	MWM2	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM2	2.9	2.9	2.9	2.9	0	0
SO BUILDWID	MWM2	13.6	13.45	12.89	11.94	10.63	8.99
SO BUILDWID	MWM2	7.08	0	0	4.17	6.38	8.4
SO BUILDWID	MWM2	10.17	11.63	12.73	13.44	0	0
SO BUILDWID	MWM2	0	0	0	0	0	0
SO BUILDWID	MWM2	7.08	0	0	4.17	6.38	8.4
SO BUILDWID	MWM2	10.17	11.63	12.73	13.44	0	0
SO BUILDLN	MWM2	4.16	6.38	8.4	10.17	11.64	12.74
SO BUILDLN	MWM2	13.46	0	0	13.73	13.6	13.05
SO BUILDLN	MWM2	12.11	10.81	9.17	7.26	0	0
SO BUILDLN	MWM2	0	0	0	0	0	0
SO BUILDLN	MWM2	13.46	0	0	13.73	13.6	13.05
SO BUILDLN	MWM2	12.11	10.81	9.17	7.26	0	0
SO XBADJ	MWM2	-12.27	-14.62	-16.53	-17.93	-18.79	-19.08
SO XBADJ	MWM2	-18.79	0	0	-16.62	-16.87	-16.61
SO XBADJ	MWM2	-15.84	-14.59	-12.9	-10.82	0	0
SO XBADJ	MWM2	0	0	0	0	0	0
SO XBADJ	MWM2	5.33	0	0	2.89	3.27	3.55
SO XBADJ	MWM2	3.72	3.78	3.73	3.56	0	0
SO YBADJ	MWM2	8.04	6.16	4.09	1.9	-0.35	-2.59
SO YBADJ	MWM2	-4.75	0	0	2.63	0.88	-0.9
SO YBADJ	MWM2	-2.64	-4.31	-5.85	-7.2	0	0
SO YBADJ	MWM2	0	0	0	0	0	0
SO YBADJ	MWM2	4.75	0	0	-2.63	-0.88	0.9
SO YBADJ	MWM2	2.64	4.31	5.85	7.2	0	0
SO BUILDHGT	MWM3	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM3	2.9	2.9	0	0	0	2.9
SO BUILDHGT	MWM3	2.9	2.9	2.9	2.9	2.9	0
SO BUILDHGT	MWM3	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM3	2.9	2.9	0	0	0	0
SO BUILDHGT	MWM3	0	0	0	0	0	0
SO BUILDWID	MWM3	0	13.45	12.89	11.94	10.63	8.99
SO BUILDWID	MWM3	7.08	4.96	0	0	0	8.4
SO BUILDWID	MWM3	10.17	11.63	12.73	13.44	13.75	0
SO BUILDWID	MWM3	0	13.45	12.89	11.94	10.63	8.99
SO BUILDWID	MWM3	7.08	4.96	0	0	0	0
SO BUILDWID	MWM3	0	0	0	0	0	0
SO BUILDLN	MWM3	0	6.38	8.4	10.17	11.64	12.74
SO BUILDLN	MWM3	13.46	13.78	0	0	0	13.05
SO BUILDLN	MWM3	12.11	10.81	9.17	7.26	5.12	0
SO BUILDLN	MWM3	0	6.38	8.4	10.17	11.64	12.74
SO BUILDLN	MWM3	13.46	13.78	0	0	0	0
SO BUILDLN	MWM3	0	0	0	0	0	0
SO XBADJ	MWM3	0	-9.87	-12.13	-14.01	-15.47	-16.46
SO XBADJ	MWM3	-16.95	-16.93	0	0	0	-19
SO XBADJ	MWM3	-18.96	-18.35	-17.17	-15.48	-13.32	0
SO XBADJ	MWM3	0	3.5	3.72	3.84	3.84	3.72



SO XBADJ	MWM3	3.49	3.15	0	0	0	0
SO XBADJ	MWM3	0	0	0	0	0	0
SO YBADJ	MWM3	0	7.75	6.49	5.02	3.4	1.68
SO YBADJ	MWM3	-0.09	-1.86	0	0	0	3.51
SO YBADJ	MWM3	1.28	-0.99	-3.23	-5.37	-7.35	0
SO YBADJ	MWM3	0	-7.75	-6.49	-5.02	-3.4	-1.68
SO YBADJ	MWM3	0.09	1.86	0	0	0	0
SO YBADJ	MWM3	0	0	0	0	0	0

SO BUILDHGT	MWM4	2.9	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM4	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM4	2.9	2.9	2.9	2.9	2.9	0
SO BUILDHGT	MWM4	0	0	0	0	0	0
SO BUILDHGT	MWM4	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM4	2.9	2.9	2.9	2.9	2.9	0
SO BUILDWID	MWM4	13.7	13.56	13.01	12.06	10.75	9.11
SO BUILDWID	MWM4	7.19	0	0	4.34	6.58	8.63
SO BUILDWID	MWM4	10.41	11.88	12.98	13.69	13.99	0
SO BUILDWID	MWM4	0	0	0	0	0	0
SO BUILDWID	MWM4	7.19	0	0	4.34	6.58	8.63
SO BUILDWID	MWM4	10.41	11.88	12.98	13.69	13.99	0
SO BUILDLN	MWM4	4.25	6.44	8.44	10.18	11.61	12.68
SO BUILDLN	MWM4	13.37	0	0	13.76	13.64	13.11
SO BUILDLN	MWM4	12.18	10.87	9.24	7.33	5.19	0
SO BUILDLN	MWM4	0	0	0	0	0	0
SO BUILDLN	MWM4	13.37	0	0	13.76	13.64	13.11
SO BUILDLN	MWM4	12.18	10.87	9.24	7.33	5.19	0
SO XBADJ	MWM4	-12.22	-14.6	-16.52	-17.95	-18.83	-19.14
SO XBADJ	MWM4	-18.87	0	0	-16.73	-17	-16.75
SO XBADJ	MWM4	-15.99	-14.74	-13.05	-10.96	-8.53	0
SO XBADJ	MWM4	0	0	0	0	0	0
SO XBADJ	MWM4	5.5	0	0	2.97	3.36	3.64
SO XBADJ	MWM4	3.81	3.87	3.8	3.63	3.34	0
SO YBADJ	MWM4	8.2	6.31	4.24	2.03	-0.23	-2.49
SO YBADJ	MWM4	-4.68	0	0	2.52	0.77	-1.01
SO YBADJ	MWM4	-2.76	-4.42	-5.95	-7.3	-8.43	0
SO YBADJ	MWM4	0	0	0	0	0	0
SO YBADJ	MWM4	4.68	0	0	-2.52	-0.77	1.01
SO YBADJ	MWM4	2.76	4.42	5.95	7.3	8.43	0

SO BUILDHGT	MWM5	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM5	2.9	2.9	0	0	0	2.9
SO BUILDHGT	MWM5	2.9	2.9	2.9	2.9	2.9	0
SO BUILDHGT	MWM5	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM5	2.9	2.9	0	0	0	0
SO BUILDHGT	MWM5	0	0	0	0	0	0
SO BUILDWID	MWM5	0	13.56	13.01	12.06	10.75	9.11
SO BUILDWID	MWM5	7.19	5.06	0	0	0	8.63
SO BUILDWID	MWM5	10.41	11.88	12.98	13.69	13.99	0
SO BUILDWID	MWM5	0	13.56	13.01	12.06	10.75	9.11
SO BUILDWID	MWM5	7.19	5.06	0	0	0	0
SO BUILDWID	MWM5	0	0	0	0	0	0
SO BUILDLN	MWM5	0	6.44	8.44	10.18	11.61	12.68
SO BUILDLN	MWM5	13.37	13.66	0	0	0	13.11
SO BUILDLN	MWM5	12.18	10.87	9.24	7.33	5.19	0
SO BUILDLN	MWM5	0	6.44	8.44	10.18	11.61	12.68
SO BUILDLN	MWM5	13.37	13.66	0	0	0	0
SO BUILDLN	MWM5	0	0	0	0	0	0
SO XBADJ	MWM5	0	-9.82	-12.09	-13.99	-15.47	-16.47
SO XBADJ	MWM5	-16.98	-16.97	0	0	0	-19.09
SO XBADJ	MWM5	-19.06	-18.46	-17.29	-15.6	-13.43	0



SO XBADJ	MWM5	0	3.38	3.65	3.82	3.86	3.79
SO XBADJ	MWM5	3.6	3.31	0	0	0	0
SO XBADJ	MWM5	0	0	0	0	0	0
SO YBADJ	MWM5	0	7.85	6.58	5.11	3.48	1.75
SO YBADJ	MWM5	-0.03	-1.82	0	0	0	3.42
SO YBADJ	MWM5	1.2	-1.06	-3.28	-5.41	-7.37	0
SO YBADJ	MWM5	0	-7.85	-6.58	-5.11	-3.48	-1.75
SO YBADJ	MWM5	0.03	1.82	0	0	0	0
SO YBADJ	MWM5	0	0	0	0	0	0

SO BUILDHGT	MWM6	2.9	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM6	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM6	2.9	2.9	2.9	2.9	0	0
SO BUILDHGT	MWM6	0	0	0	0	0	0
SO BUILDHGT	MWM6	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM6	2.9	2.9	2.9	2.9	0	0
SO BUILDWID	MWM6	13.61	13.48	12.95	12.02	10.72	9.1
SO BUILDWID	MWM6	7.21	0	0	4.21	6.42	8.43
SO BUILDWID	MWM6	10.19	11.64	12.74	13.45	0	0
SO BUILDWID	MWM6	0	0	0	0	0	0
SO BUILDWID	MWM6	7.21	0	0	4.21	6.42	8.43
SO BUILDWID	MWM6	10.19	11.64	12.74	13.45	0	0
SO BUILDLN	MWM6	4.38	6.61	8.64	10.41	11.86	12.95
SO BUILDLN	MWM6	13.65	0	0	13.71	13.6	13.07
SO BUILDLN	MWM6	12.14	10.85	9.23	7.32	0	0
SO BUILDLN	MWM6	0	0	0	0	0	0
SO BUILDLN	MWM6	13.65	0	0	13.71	13.6	13.07
SO BUILDLN	MWM6	12.14	10.85	9.23	7.32	0	0
SO XBADJ	MWM6	-12.65	-15.02	-16.93	-18.34	-19.18	-19.44
SO XBADJ	MWM6	-19.11	0	0	-16.72	-16.97	-16.7
SO XBADJ	MWM6	-15.92	-14.65	-12.95	-10.85	0	0
SO XBADJ	MWM6	0	0	0	0	0	0
SO XBADJ	MWM6	5.46	0	0	3.01	3.37	3.63
SO XBADJ	MWM6	3.77	3.81	3.72	3.53	0	0
SO YBADJ	MWM6	8.1	6.19	4.09	1.87	-0.41	-2.67
SO YBADJ	MWM6	-4.86	0	0	2.47	0.72	-1.06
SO YBADJ	MWM6	-2.81	-4.47	-6	-7.34	0	0
SO YBADJ	MWM6	0	0	0	0	0	0
SO YBADJ	MWM6	4.86	0	0	-2.47	-0.72	1.06
SO YBADJ	MWM6	2.81	4.47	6	7.34	0	0

SO BUILDHGT	MWM7	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM7	2.9	2.9	0	0	0	2.9
SO BUILDHGT	MWM7	2.9	2.9	2.9	2.9	2.9	0
SO BUILDHGT	MWM7	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM7	2.9	2.9	0	0	0	0
SO BUILDHGT	MWM7	0	0	0	0	0	0
SO BUILDWID	MWM7	0	13.48	12.95	12.02	10.72	9.1
SO BUILDWID	MWM7	7.21	5.09	0	0	0	8.43
SO BUILDWID	MWM7	10.19	11.64	12.74	13.45	13.75	0
SO BUILDWID	MWM7	0	13.48	12.95	12.02	10.72	9.1
SO BUILDWID	MWM7	7.21	5.09	0	0	0	0
SO BUILDWID	MWM7	0	0	0	0	0	0
SO BUILDLN	MWM7	0	6.61	8.64	10.41	11.86	12.95
SO BUILDLN	MWM7	13.65	13.93	0	0	0	13.07
SO BUILDLN	MWM7	12.14	10.85	9.23	7.32	5.19	0
SO BUILDLN	MWM7	0	6.61	8.64	10.41	11.86	12.95
SO BUILDLN	MWM7	13.65	13.93	0	0	0	0
SO BUILDLN	MWM7	0	0	0	0	0	0
SO XBADJ	MWM7	0	-10.29	-12.54	-14.41	-15.85	-16.8
SO XBADJ	MWM7	-17.24	-17.16	0	0	0	-19.02



SO XBADJ	MWM7	-18.97	-18.35	-17.16	-15.46	-13.28	0
SO XBADJ	MWM7	0	3.67	3.9	4	3.99	3.85
SO XBADJ	MWM7	3.59	3.23	0	0	0	0
SO XBADJ	MWM7	0	0	0	0	0	0
SO YBADJ	MWM7	0	7.72	6.42	4.93	3.29	1.54
SO YBADJ	MWM7	-0.25	-2.03	0	0	0	3.33
SO YBADJ	MWM7	1.11	-1.14	-3.36	-5.47	-7.42	0
SO YBADJ	MWM7	0	-7.72	-6.42	-4.93	-3.29	-1.54
SO YBADJ	MWM7	0.25	2.03	0	0	0	0
SO YBADJ	MWM7	0	0	0	0	0	0

SO BUILDHGT	MWM8	2.9	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM8	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM8	2.9	2.9	2.9	2.9	0	0
SO BUILDHGT	MWM8	0	0	0	0	0	0
SO BUILDHGT	MWM8	2.9	0	0	2.9	2.9	2.9
SO BUILDHGT	MWM8	2.9	2.9	2.9	2.9	0	0
SO BUILDWID	MWM8	13.65	13.53	13.01	12.08	10.8	9.18
SO BUILDWID	MWM8	7.28	0	0	4.23	6.42	8.43
SO BUILDWID	MWM8	10.17	11.61	12.69	13.39	0	0
SO BUILDWID	MWM8	0	0	0	0	0	0
SO BUILDWID	MWM8	7.28	0	0	4.23	6.42	8.43
SO BUILDWID	MWM8	10.17	11.61	12.69	13.39	0	0
SO BUILDLEN	MWM8	4.23	6.44	8.46	10.23	11.68	12.78
SO BUILDLEN	MWM8	13.49	0	0	13.35	13.18	12.61
SO BUILDLEN	MWM8	11.66	10.35	8.73	6.84	0	0
SO BUILDLEN	MWM8	0	0	0	0	0	0
SO BUILDLEN	MWM8	13.49	0	0	13.35	13.18	12.61
SO BUILDLEN	MWM8	11.66	10.35	8.73	6.84	0	0
SO XBADJ	MWM8	-12.5	-14.89	-16.83	-18.26	-19.13	-19.42
SO XBADJ	MWM8	-19.12	0	0	-16.59	-16.81	-16.52
SO XBADJ	MWM8	-15.72	-14.45	-12.74	-10.64	0	0
SO XBADJ	MWM8	0	0	0	0	0	0
SO XBADJ	MWM8	5.64	0	0	3.25	3.63	3.91
SO XBADJ	MWM8	4.07	4.1	4.01	3.8	0	0
SO YBADJ	MWM8	8.24	6.34	4.25	2.02	-0.26	-2.54
SO YBADJ	MWM8	-4.74	0	0	2.42	0.65	-1.14
SO YBADJ	MWM8	-2.89	-4.56	-6.09	-7.43	0	0
SO YBADJ	MWM8	0	0	0	0	0	0
SO YBADJ	MWM8	4.74	0	0	-2.42	-0.65	1.14
SO YBADJ	MWM8	2.89	4.56	6.09	7.43	0	0

SO BUILDHGT	MWM9	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM9	2.9	2.9	0	0	0	2.9
SO BUILDHGT	MWM9	2.9	2.9	2.9	2.9	2.9	0
SO BUILDHGT	MWM9	0	2.9	2.9	2.9	2.9	2.9
SO BUILDHGT	MWM9	2.9	2.9	0	0	0	0
SO BUILDHGT	MWM9	0	0	0	0	0	0
SO BUILDWID	MWM9	0	13.53	13.01	12.08	10.8	9.18
SO BUILDWID	MWM9	7.28	5.16	0	0	0	8.43
SO BUILDWID	MWM9	10.17	11.61	12.69	13.39	13.68	0
SO BUILDWID	MWM9	0	13.53	13.01	12.08	10.8	9.18
SO BUILDWID	MWM9	7.28	5.16	0	0	0	0
SO BUILDWID	MWM9	0	0	0	0	0	0
SO BUILDLEN	MWM9	0	6.44	8.46	10.23	11.68	12.78
SO BUILDLEN	MWM9	13.49	13.79	0	0	0	12.61
SO BUILDLEN	MWM9	11.66	10.35	8.73	6.84	4.75	0
SO BUILDLEN	MWM9	0	6.44	8.46	10.23	11.68	12.78
SO BUILDLEN	MWM9	13.49	13.79	0	0	0	0
SO BUILDLEN	MWM9	0	0	0	0	0	0
SO XBADJ	MWM9	0	-9.84	-12.1	-14.01	-15.48	-16.49



SO XBADJ	MWM9	-16.99	-16.98	0	0	0	-18.83
SO XBADJ	MWM9	-18.82	-18.24	-17.11	-15.45	-13.33	0
SO XBADJ	MWM9	0	3.39	3.64	3.78	3.8	3.71
SO XBADJ	MWM9	3.5	3.19	0	0	0	0
SO XBADJ	MWM9	0	0	0	0	0	0
SO YBADJ	MWM9	0	7.8	6.56	5.12	3.53	1.83
SO YBADJ	MWM9	0.07	-1.69	0	0	0	3.59
SO YBADJ	MWM9	1.36	-0.91	-3.15	-5.29	-7.28	0
SO YBADJ	MWM9	0	-7.8	-6.56	-5.12	-3.53	-1.83
SO YBADJ	MWM9	-0.07	1.69	0	0	0	0
SO YBADJ	MWM9	0	0	0	0	0	0

SRCGROUP ALL
SO FINISHED

RE STARTING
INCLUDED "C:\Modelling\Armada\16-36\locators.ter"
RE FINISHED

ME STARTING
SURFFILE "C:\Modelling\Armada\16-36\aermet.SFC"
PROFFILE "C:\Modelling\Armada\16-36\aermet.PFL"
SURFDATA 12345 2015
UAIRDATA 12345678 2015
PROFBASE 579. METERS
STARTEND 17 01 01 17 12 31
ME FINISHED

OU STARTING
RECTABLE ALLAVE First
MAXTABLE ALLAVE 100
PLOTFILE Annual All Ann17.plt
OU FINISHED

**ANNUAL NO₂ OUTPUT FILE**

*** AERMOD - VERSION 24142 *** *** Armada 16-36 Hoole South *** 07/10/26
*** AERMET - VERSION 24142 *** *** *** 11:39:11

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*** MODELOPTs: NonDEFAULT CONC ELEV PVMRM BETA RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 1 YEARS ***

** CONC OF NO2 IN MICROGRAMS/M**3 **

GROUP ID AVERAGE CONC RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL 1ST HIGHEST VALUE IS **6.20924** AT (327520.00, 6207524.00, 567.00, 567.00, 0.00) DC
2ND HIGHEST VALUE IS 6.09146 AT (327540.00, 6207524.00, 567.00, 567.00, 0.00) DC
3RD HIGHEST VALUE IS 6.02258 AT (327520.00, 6207504.00, 566.80, 566.80, 0.00) DC
4TH HIGHEST VALUE IS 5.95840 AT (327540.00, 6207504.00, 567.00, 567.00, 0.00) DC
5TH HIGHEST VALUE IS 5.93092 AT (327520.00, 6207544.00, 567.00, 567.00, 0.00) DC
6TH HIGHEST VALUE IS 5.87427 AT (327560.00, 6207524.00, 567.30, 567.30, 0.00) DC
7TH HIGHEST VALUE IS 5.86568 AT (327540.00, 6207544.00, 567.50, 567.50, 0.00) DC
8TH HIGHEST VALUE IS 5.75101 AT (327560.00, 6207504.00, 567.00, 567.00, 0.00) DC
9TH HIGHEST VALUE IS 5.72102 AT (327500.00, 6207544.00, 567.00, 567.00, 0.00) DC
10TH HIGHEST VALUE IS 5.70332 AT (327494.00, 6207522.00, 566.50, 566.50, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR