









Kwinana Ammonium Nitrate Expansion – Air Dispersion Modelling Report

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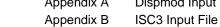
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1 Introduction

1.1 Background

CSBP Limited (CSBP), one of Australia's largest manufacturers and suppliers of high quality fertilisers and industrial and mining chemical products, is proposing to increase the ammonium nitrate production capacity at its Kwinana Industrial Complex, located approximately 40 km south of Perth, Western Australia.

CSBP's Kwinana Industrial Complex is licensed under the *Environmental Protection Act* 1986 (Licence Number: L6107/1967), and includes the following production facilities:

Ammonium Nitrate Business:

- Integrated Nitric Acid Ammonium Nitrate Plants 1 and 2; and
- 2008 Ammonium Nitrate Prilling Plant.

Other:

- Superphosphate Plant;
- · Compound Fertiliser Granulating Plant; and
- Ammonia Plant.

The 2008 Ammonium Nitrate Prilling Plant (also referred to as Prilling Plant 2) was commissioned by CSBP in 2008 and makes use of improved pollution control technology. This plant replaced CSBP's original Prilling Plant, which was decommissioned in 2009.

The expansion would involve the construction of a third integrated Nitric Acid Ammonium Nitrate plant (Plant 3), debottlenecking of the two existing Nitric Acid Ammonium Nitrate plants and proposed third plant, construction of a second auxiliary boiler and an upgrade of the existing prilling plant. The expansion project would result in an increase in the total ammonium nitrate production capacity at CSBP's Kwinana Industrial Complex from 520,000 tonnes per annum (tpa) to 936,000 tpa.

CSBP engaged ENVIRON Australia Pty Ltd (ENVIRON) to undertake air dispersion modelling in order to assess the potential air quality impacts arising from the atmospheric emissions and to support the environmental regulatory approval for the expansion project. The air dispersion modelling study has been carried out in two phases: the impact of emissions from existing sources at the CSBP Kwinana Industrial Complex was first assessed in order to establish a baseline of air quality impacts (baseline emissions scenario), followed by an assessment of emissions from the new and upgraded emissions sources in order to determine the air quality impacts associated with the increased ammonium nitrate production (expansion emissions scenario).



1.2 Purpose of this Report

This report outlines the approach, methodology and results for both the baseline and expansion emission scenarios. Ground level concentrations (GLCs) of nitrogen dioxide (NO₂), particulate matter (as PM_{2.5}) and ammonia (NH₃) have been predicted for all non-trivial sources of these pollutants at CSBP's Kwinana Industrial Complex.

Air quality impacts have been assessed for both the baseline and expansion emission scenarios, with each source operating under normal conditions, as well as with the Nitric Acid Plants operating under start-up and shutdown conditions. Ambient monitoring data have also been utilised in order to assess the cumulative impact of emissions associated with CSBP's operations along with other sources of emissions within the Kwinana area.

1.3 Site Description and Plant Layout

The CSBP Kwinana Industrial Complex is located in the Kwinana Industrial Area (KIA) approximately 40 km south of Perth. The CSBP Kwinana Industrial Complex encompasses an area of 138 ha and is adjacent to the intersection of Kwinana Beach Road and Rockingham Beach Road (Figure 1). A layout of the site is provided as Figure 2 and the locations of the emission sources considered in this assessment are highlighted in Figure 3.



2 Process Description and Emissions Control

Brief descriptions of the processes and emission control technologies utilised by the production facilities associated with CSBP's expansion project (i.e. Nitric Acid Ammonium Nitrate Plants 1, 2 and 3, the Auxiliary Boiler and the 2008 Ammonium Nitrate Prilling Plant) are provided in the following sections.

2.1 Integrated Nitric Acid Ammonium Nitrate Plants

The nitric acid process involves the production of oxides of nitrogen (NO_x) through the oxidisation of ammonia (NH_3) with air over platinum/rhodium gauzes to form nitric oxide (NO) (an exothermic reaction which generates heat and which is used to generate electricity). The NO is oxidised to NO_2 with additional air and is then passed through the absorber tower (the tallest part of the plant) where it is absorbed in water to create nitric acid (HNO_3) . Unabsorbed NO_x gas leaves the absorber tower as tail gas which is treated prior to discharge to atmosphere via the Nitric Acid Plant Stack. The HNO_3 is then reacted in a pipe reactor with NH_3 to form ammonium nitrate; this part of the process does not produce any gaseous emissions.

Each of the Nitric Acid Ammonium Nitrate plants has been designed and operates in the same manner.

It should be noted that as there are no gaseous emissions from the ammonium nitrate manufacturing component of the integrated plant, this report will refer to emissions from the Nitric Acid plants only, to ensure consistency with Environmental Protection Act Licence (L6107/1967).

2.1.1 Emission Control

The untreated tail gas leaving the absorber tower has a NO_x concentration of approximately 800 ppm. Before being exhausted to atmosphere, the tail gas NO_x content is reduced in a selective catalytic reactor (SCR). In the SCR, the NO_x is reduced to N_2 via reaction with small quantities of ammonia. The treated tail gas, with a NO_x concentration of approximately 50 ppm is then released to atmosphere through the stack, which is mounted alongside the absorber tower. The treated tail gas also contains small concentrations of NH_3 (typically less than 1 ppm) as a result of slippage of NH_3 past the SCR.

 NO_x concentrations from the SCR are measured continuously by an analyser located immediately upstream of the Tail-Gas Expander following the SCR and these are configured to alarm on high NO_x concentrations, and trip the plant if elevated NO_x concentrations are detected for a duration of greater than five minutes. Alarms are also configured to detect possible faults with the NO_x analyser and detect low NH_3 flow to the SCR. The SCR catalyst performance is monitored continuously with alarms and trips when not operating at acceptable activity. Shut down of the SCR leads to a plant shut down on high NO_x concentration alarm.



Elevated emissions of NO_x occur during the start-up process as the tail gas is heated to the operating temperature required for effective performance of the SCR catalyst (around 200° C). This process takes around 30-minutes, after which time NO_x emissions decrease. Shutdown of the Nitric Acid Plants can also lead to elevated NO_x emissions as it takes time for NO_x to be cleared from the plant. Analysis of stack monitoring data for Nitric Acid Plants 1 and 2 provided by CSBP, indicates that start-up and shutdown conditions occur no more than four times a month. As NH_3 slippage is only associated with the operation of the SCR, NH_3 emissions from the Nitric Acid Plants are not expected during start-up or shut down conditions, when the SCR is offline.

The existing and proposed additional Nitric Acid Ammonium Nitrate plants will be debottlenecked as part of the expansion project in order to increase capacity and improve efficiency. This process is expected to result in an increase in the volumetric flow rate of emissions from the Nitric Acid Plants stacks to 39.5 m³/s, which represents an increase of approximately 33% for Nitric Acid Plant 1, and 10% for Nitric Acid Plant 2.

2.2 Auxiliary Boiler

The existing auxiliary boiler is a natural gas-fired package boiler used to supply supplementary steam to the ammonia plant for use in the production process. The existing boiler has a steam generating capacity of 27 tonnes/hour. The new boiler proposed as part of the expansion project will have a steam generating capacity of 40 tonnes/hour. CSBP anticipates that once the new boiler has been commissioned, the existing boiler will no longer be required, except in the event of multiple plant trips that may require start up of the Ammonia Plant at the same time as one of the Nitric Acid Plants and for boiler maintenance (no more than 5% of the time).

2.2.1 Emission Control

The auxiliary boiler flue gas is vented to atmosphere via the Auxiliary Boiler Stack. Controlled gas to air ratio and flue gas oxygen analysis assists in optimising combustion.

It is anticipated that the volumetric flow rate of emissions from the new boiler will be 50% greater, based on the 50% increase in steam generating capacity, as compared to the existing boiler. However, the concentration of NO_x emissions in the waste gas stream is expected to remain the same as that for the existing boiler.

2.3 2008 Ammonium Nitrate Prilling Plant

In the Prilling Plant (which contains a large tower approximately 60 m tall) hot ammonium nitrate solution is pumped to the top of the prilling tower and sprayed at a temperature of between 140°C and 150°C into the void inside the tower, where it falls under gravity against a fan forced air stream. The liquid cools as it falls, and creates the small round prill. The prill are then dried in the pre-dryer(s) and dryer, cooled, screened and coated to provide raw material for use in the mining industry.



2.3.1 Emission Control

The prilling air is scrubbed by the prilling air scrubber to remove any vaporised NH₃ and entrained fine particulates. NH₃ and ammonium nitrate (NH₄NH₃) particulates are caught by the slightly acidified and pH-controlled dilute NH₄NH₃ solution. After scrubbing the prilling air is recycled to the bottom of the prilling tower by the prilling air scrubber fans.

Waste air from the pre-dryer, dryer, and screen and transfer points dust recovery is sent to the final scrubber (a two stage packed tower scrubber) to be washed to remove NH₄NH₃ particulates and NH₃. Bleed air from the prilling tower air circulation system is also passed to the final scrubber. The pH of the scrubbing liquor is controlled automatically to ensure efficient removal of NH₃. Failure of scrubbing liquor circulation will result in a plant shut down.

After treatment, the waste air is discharged to atmosphere via the final scrubber fan to the Prilling Plant Stack, which runs to a height above the top of the prilling tower. The water effluent from the scrubber is recycled through the plant to recover the ammonium nitrate.

The Prilling Plant will be debottlenecked as part of the expansion project in order to increase capacity and improve efficiency. This process is expected to result in an increase in the volumetric flow rate of emissions from the Prilling Plant stack by up to 25%. However, the scrubbing system has sufficient capacity to accommodate the increased volume and the concentration of NH₃ and PM emissions in the exhaust gas stream is not expected to increase as part of the expansion project.



3 Air Quality Criteria

3.1 Ambient Air Quality Guidelines

In June 1998 the National Environment Protection Council (NEPC) set uniform standards for ambient air quality to allow for the adequate protection of human health and well being. This was achieved via the creation of the National Environmental Protection (Ambient Air Quality) Measure (NEPM) (NEPC, 2003) which defined ambient air quality standards for criteria pollutants, including NO₂ and PM₁₀. The NEPM also sets Advisory Reporting Standards for PM_{2.5}, with a goal to gather sufficient data to facilitate a review of Standards as part of the review of the ambient air quality NEPM that is currently underway. The Western Australian State Government has adopted the NEPM standards for ambient air quality as part of the *State Environmental (Ambient Air) Policy 2009* (EPA, 2009) and the NEPM standards for NO₂, PM₁₀ and PM_{2.5} have subsequently been applied in this assessment.

The Victorian State Environmental Protection Policy (Vic SEPP) (Vic EPA, 2001) has established 3-minute average Design Criteria for a number of pollutants, including NH₃. The Design Criteria have been derived from the National Occupational Health and Safety Commission's (NOHSC) exposure standards for atmospheric contaminants in the occupational environment (Vic EPA, 2001) and are designed to protect against adverse health effects. The UK Environmental Agency (UKEA) has also defined Environmental Assessment Levels (EALs) for NH₃ which are derived from the UK Health and Safety Executive (HSE)'s Occupational Exposure Limits 2001 (UKEA, 2009). The UKEA criteria were referenced by the DEC in its assessment of monitored NH₃ concentrations collected as part of the Background Air Quality (Air Toxics) Study.

In the absence of a NEPM standard for NH₃, both the Vic SEPP and UKEA EALs have been applied in this assessment. The Vic SEPP 3-minute average Design Criteria has been converted to a 1-hour average concentration using the power law for timescale conversion, based on the approach recommended by Hanna *et al.* (1977). A summary of the air quality criteria applied in this assessment is provided in Table 1.



Table 1: A	mbient Air Qu	ality Criteria		
Compound	Averaging Period	Concentratio n (µg/m³)	Goal ¹	Source
NO ₂	1-hour	246	Not to be exceeded more than 1 day per year	NEPC NEPM
	Annual	62	NA	
PM ₁₀	24-hour	50	Not to be exceeded more than 5 days per year	NEPC NEPM
D. 1	24-hour	25	Goal is to gather sufficient data	NEDO NEDI
PM _{2.5}	Annual	8	nationally to facilitate a review of the Advisory Reporting Standards	NEPC NEPM
	1-hour	330 ^[2]	NA	Vic SEPP
NH_3	1-110UI	2,500 ^[3]	NA	UKEA
İ	Annual	180 ^[4]	NA	UNEA

Notes

- 1. From July 2008.
- 2. Derived from 3-minute average Vic SEPP (2001) design criteria and converted to 1-hour average using the 0.2 power law for timescale conversion, based on the approach recommended by Hanna *et al.* (1977).
- 3. Derived from 15-minute average Occupational Exposure Level and converted to 1-hour average by UKEA.
- 4. Derived from 8-hour average Occupational Exposure Level and converted to annual mean by UKEA.

3.2 Emission Limits

CSBP's Kwinana Industrial Complex currently operates under an Environmental Licence (L6107/1967/16) which contains emission limits and targets for NO_x , Total Particulates and NH_3 for a number of sources including the Nitric Acid Plants (operating under normal and start-up conditions), Granulating Plant, Ammonia Plant and 2008 Ammonium Nitrate Prilling Plant. A summary of the atmospheric emission licence conditions relevant to this assessment is provided in Table 2.

Table 2: CSBP Environmental Licence Atmospheric Emission Conditions							
Compound	Averaging Period	Emission Limit ¹					
NO _x	1-hour	0.41 g/m ³					
NO _x	30-minutes	2.0 g/m ³					
NH ₃	Not specified	1.0 g/m ³					
NO _x	1-hour	144 mg/m ³					
NO _x	1-hour	144 mg/m ³					
Total Particulates	1-hour	0.05 g/m ³					
1	1	1					
	Compound NO _x NO _x NH ₃ NO _x NO _x Total Particulates	Compound NO _x 1-hour NO _x 30-minutes NH ₃ Not specified NO _x 1-hour NO _x 1-hour Total					

The licence conditions also specify that the two existing Nitric Acid Plants cannot be started up at the same time. CSBP is required to maintain a minimum of one hour between the start-up of each Plant.

While the Superphosphate Plant Scrubber and Granulation Plant Deduster stacks are not subject to TSP or NH₃ licence emission conditions, they have also been included in the modelling assessment as non-trivial sources of emissions including PM and NH₃.

4 Ambient Air Quality

Background ambient concentration data were available for two of the pollutants of interest in this study:

- NO₂; and
- NH₃.

The DEC has conduct ambient air quality monitoring of nitrogen oxide (NO) and NO₂ concentrations within the Kwinana region. Monitoring has been conducted at the Hope Valley (until April 2008 when this station was decommissioned) and North Rockingham stations, both located within approximately 5 km of the CSBP facility (Figure 1). The NO₂ concentrations are collected by the DEC in compliance with the NEPM (NEPC, 2003) and are made available in the annual DEC air monitoring reports.

As noted in the 2008 Western Australian Annual Air Monitoring Report (DEC, 2009a) the NEPM NO₂ 1-hour standard of 0.12 ppm has not been exceeded at either the Hope Valley or North Rockingham monitoring stations over the last ten years (1999 to 2008). The highest maximum 1-hour NO₂ concentration monitored at Hope Valley between these years was 0.084 ppm (recorded in 2007). The highest maximum 1-hour NO₂ concentration monitored at North Rockingham during the same period was 0.055 ppm (recorded in 2004).

To assess the cumulative impacts of the current proposal on ambient NO₂ concentrations at each site, the maximum 1-hour and annual averaged NO₂ concentrations monitored between 1999 and 2008 have been used, as detailed in Table 3.

bient NO	₂ Concer	ntrations M	easured i	in Kwina	na
	Hope Valle	ey	No	rth Rockir	ngham
ppm	μg/m³	% NEPM ¹	ppm	μg/m³	% NEPM ¹
,	1-hour Ave	erage			
0.084 ^[2]	173	70%	0.055 ^[3]	113	46%
,	Annual Av	erage			,
0.009	18	30%	0.013	27	43%
	ppm 0.084 ^[2]	Hope Valle ppm μg/m³ 1-hour Ave 0.084 ^[2] 173 Annual Ave Annual Ave Annual Ave Part Part	Hope Valley ppm μg/m³ % NEPM¹ 1-hour Average 0.084 ^[2] 173 70% Annual Average	Hope Valley No	ppm μg/m³ % NEPM¹ ppm μg/m³ 1-hour Average 0.084 ^[2] 173 70% 0.055 ^[3] 113 Annual Average

Notes

- 1. 1 hour NO_2 NEPM = 0.12 ppm; Annual NO_2 NEPM = 0.03 ppm.
- 2. As recorded in 2007.
- 3. As recorded in 2004.

The DEC conducted the Background Air Quality (Air Toxics) Study that involved monitoring of ambient concentrations of various air toxics in the Perth metropolitan area (including Kwinana). The results of the study are posted on the DEC website:

(http://portal.environment.wa.gov.au/portal/page?_pageid=54,3168889&_dad=portal&_sche ma=PORTAL).



Passive samplers were used to collect six day samples of NH_3 at Wells Park between May 2005 and July 2006. The average concentration of NH_3 collected over the duration of the study was found to be 17 μ g/m³, and is considered to be the best information available to determine the annual average background NH_3 concentration.

Due to the limitations of the passive samplers used in the Background Air Quality (Air Toxics) Study to measure NH₃ concentrations, shorter term average NH₃ background concentrations were not available for analysis within this study.

The 2008 Western Australia Air Monitoring Report (DEC 2009a) contains ambient air concentrations of PM_{10} and $PM_{2.5}$ throughout the Perth metropolitan region. The South Lake station is the closest site to Kwinana, however the site is between fifteen and twenty kilometres away and would not be representative of the PM_{10} and $PM_{2.5}$ concentrations in the model domain. Therefore, no PM_{10} or $PM_{2.5}$ background data were used in the analysis.

5 Modelling Methodology

5.1 Air Dispersion Models

The Gaussian dispersion models Dispmod (Version 2005) and the Industrial Source Complex 3 (ISC3) (Version 5.1.0) were both used in this study to predict the air quality impacts for the baseline emissions scenario. Dispmod was developed by the DEC and includes the effects of coastal fumigation on plume dispersion, and is therefore considered to be an appropriate model to predict dispersion characteristics of emissions on the Western Australian coastline. ISC3 was developed by the United States Environmental Protection Agency (USEPA) and includes enhanced treatment of the effects of buildings on plume dispersion. ISC3 has since been replaced by AERMOD as the USEPA's preferred model for most small scale regulatory applications, however it is still used extensively for regulatory assessments of industrial sources within Australia, particularly when buildings or structures are expected to impact the plume dispersion.

These two models have been chosen in order to ensure the modelling results account for coastal dispersion influences and building wake effects. The Dispmod air dispersion model has very limited capacity for considering the influence of building wake effects on plume dispersion, while the ISC3 model can account for building wakes but does not include an algorithm for coastal fumigation. As a general rule, building wake effects are likely to influence plume dispersion if the height of the exhaust stack is less than 2.5 times the height of the nearest building. As there are a number of buildings and structures within the vicinity of the modelled sources (refer to Figure 3), building wakes effects were considered a potential influence on plume dispersion.

Previous modelling carried out by ENVIRON (2009) for CSBP indicated that the worst case predicted impacts varied depending on source characteristics (i.e. stack height) and that no one model generated the most conservative results. As such, this assessment has also utilised both the Dispmod and ISC3 air dispersion models in order to predict NH $_3$, PM (as PM $_{2.5}$) and NO $_2$ GLCs.

5.2 Meteorological Data

Meteorological data collected by the DEC, at Hope Valley during the 1996 and 1997 calendar years were used for Dispmod and ISC3 modelling respectively. The Dispmod and ISC3 models have different meteorological data requirements and as data for a single year are not available in both of the required formats, meteorological data files for successive years were selected for this assessment. The 1996 and 1997 data files were also used by ENVIRON in past assessments for CSBP (e.g. ENVIRON, 2008).

Hope Valley is located approximately 4 km north northeast of the CSBP site (Figure 1) and is considered to be generally representative of the meteorology of the area. In addition, the meteorological data sets were chosen for consistency as these data sets have been used for several previous air quality assessments for CSBP and other Kwinana industries.



Annual wind roses derived from the 1996 and 1997 datasets are presented in Figures 4. Each windrose illustrates the strong influence of south-southwesterly and easterly winds on the meteorological conditions throughout the year. Moderate to strong south-southwesterly winds of between 4.5 and 9 m/s are common, as are easterly winds of between 1.5 and 4.5 m/s.

5.3 Model Parameterisation

The Dispmod and ISC3 models were used to predict the dispersion of NO₂, PM (as PM_{2.5}) and NH₃ emissions for each source operating under normal conditions, as well as for the Nitric Acid Plants operating under start-up and shutdown conditions. Each scenario was conservatively modelled assuming constant and continuous emissions from each source throughout the modelled year. The maximum predicted GLCs outside of the CSBP site boundary were assessed against the relevant ambient air quality criteria.

GLCs were predicted over a model domain of 4.8 km by 6.8 km. Gridded receptors were spaced at 200 m intervals. Boundary receptors were also incorporated into the ISC3 model at 25 m spacings in order to differentiate between on-site and off-site impacts. As the Dispmod model does not enable this same function, the Dispmod results were post-processed in order to define the predicted on-site and off-site GLCs.

The terrain of the modelled domain is considered to be relatively flat for modelling purposes and is not expected to influence the predicted GLCs. As such, terrain data were not incorporated into the ISC3 model (the Dispmod model does not have the option to incorporate terrain effects).

Dispmod was run in both statistical and non-statistical modes with the standard input configurations as defined in the *Instructions for use of Dispmod and Post Processing Software*, previously supplied to ENVIRON by the DEC. The development of a probabilistic emissions profile for use in the statistical analysis is described further in Section 5.4.1. A sample of the Dispmod model inputs for both statistical and non-statistical modes is provided in Appendix A.

ISC3 was run using regulatory default parameters and with both the urban and rural wind profile exponents. While the area within 3 km of CSBP is primarily rural, there are also industrial regions immediately surrounding the site which could influence the dispersive characteristics of the atmosphere. Both the urban and rural wind profile exponents were run in order to determine the most conservative setting. A sample of the ISC3 input file is provided in Appendix B.

Building wake effects were incorporated into the ISC3 model using the Building Profile Input Program (BPIP) – Plume Rise Model Enhancements (PRIME) building algorithm. Building locations and dimensions were based on facility drawings as provided by CSBP as part of previous air quality assessments (ENVIRON, 2008). The coordinates and building heights and the resulting PRIME algorithm parameters are provided as part of the sample ISC3 input file in Appendix B.



The ISC3 outputs were also post-processed using the Dispmod tools developed by the DEC to calculate GLCs from emissions that are described probabilistically. This approach is described further in Section 5.4.1.

5.4 Emission Estimates and Stack Parameters

The sources and associated compounds considered in the modelling assessment are as follows:

Ammonium Nitrate Business:

- Nitric Acid Plants Stacks: NO_x, NH₃;
- 2008 Ammonium Nitrate Prilling Plant: NH₃, PM (as PM_{2.5}); and
- Proposed Auxiliary Boiler Stack: NO_x.

Other:

- Superphosphate Plant Scrubber Stack: PM (as PM_{2.5});
- Granulation Plant Scrubber Stack: NH₃, PM (as PM_{2.5});
- Granulation Plant De-duster Stack: NH₃, PM (as PM_{2.5});
- Ammonia Plant Primary Reformer Stack: NO_x; and
- Existing Auxiliary Boiler Stack: NO_x.

The stack parameters, exhaust characteristics and emissions estimates associated with each of the above sources were based on data provided by CSBP (unless otherwise indicated). It has been assumed that the exhaust characteristics for Nitric Acid Plant 3 are the same as Nitric Acid Plant 2, based on the same design and operation.

Stack monitoring data were analysed by ENVIRON in order to determine the average volumetric flow rate for each source for use in the modelling. The maximum mass emission rates measured under normal operations for each of the modelled compounds were also selected from the monitoring data for each source. However, analysis of continuous emissions monitoring data for the Nitric Acid Plants indicates that the concentration of NO_x emissions varies under 'normal' operating conditions and is generally much lower than the maximum concentrations. A probabilistic approach was adopted to model NO_x emissions during 'normal' operation of the Nitric Acid Plants in order to account for this variation in the emissions. The probabilistic emissions profile used in this assessment is described further in Section 5.4.1.

Emissions of NH₃ from the Nitric Acid Plants however, were modelled using a non-probabilistic approach. The modelled NH₃ emission rate was conservatively based on the maximum NH₃ concentration of 4.8 ppm, as recorded for Nitric Acid Plant 2 during normal operations (excluding data associated with calibration events). As this concentration is only



expected to occur for a small proportion (0.02%) of the time and NH_3 concentrations are typically much lower (i.e. less than 1 ppm), the modelled NH_3 emission rate is considered conservative.

For the Nitric Acid Plants operating under start-up conditions, the modelled NO_x emission rate was conservatively based on the emission concentration limit of 2,000 mg/m³ (at STP, dry) as specified in CSBP's Environmental Licence (see Section 3.2). In the absence of site specific data, a moisture content of 0.3% was adopted in order to calculate the mass emission rate at stack conditions. This percentage is based on the typical moisture content of tail gas from Nitric Acid Plants operating in line with best available pollution control techniques (EFMA, 2000).

The exhaust characteristics for the new Auxiliary Boiler were based on a 50% increase in emissions as compared to the existing boiler stack (refer to Section 2.2.1) based on a 50% larger boiler. It is assumed the new Auxiliary Boiler stack will be constructed to the same specifications as the existing boiler stack.

The volumetric flow rate and mass emission rate for the debottlenecked Prilling Plant were assumed to increase by 25%, as compared to the emission estimates defined for the baseline emissions scenario (refer to Section 2.3.1).

Exhaust gas density, which is required in order to run the Dispmod model, was based on the reported exhaust gas temperature. As Dispmod is not able to process negative buoyancy, sources which have a calculated density greater than that of air at 40°C (i.e. 1.13 kg/m³), were assumed to have an exhaust gas density of 1.13 kg/m³ in order to enable the model to run. Negative buoyancy sources included the Granulation Plant De-duster Stack, Nitric Acid Plant 2 (during start-up), Nitric Acid Plant 1, 2 and 3 (during shut-down), and the 2008 Ammonium Nitrate Prilling Plant.

In the absence of particle sizing information, all reported PM emissions have conservatively been assumed to be $PM_{2.5}$. Compliance of the maximum predicted 24-hour average PM (as $PM_{2.5}$) GLCs with the respective NEPM advisory reporting standard would also indicate compliance with the higher 24-hour average PM_{10} standard.

The stack monitoring data from which the modelled PM (as $PM_{2.5}$) emission rate for the Deduster Stack was based consists of four separate samples collected over a 3-year period. The maximum of the reported particulate emission rates of 1.16 g/s (ECS, 2008) is not considered to be representative of normal operations (*Pers comm.* Nick Burkett, CSBP. 17 June 2010), and as such for the purposes of this assessment, has been excluded from the dataset. The maximum reported particulate emission rate of the remaining three samples (which range from 0.2 g/s to 0.3 g/s) has been adopted for modelling purposes.

Summaries of the source parameters and non-statistical emission estimates used in the model for the baseline and expansion emissions scenarios are provided in Tables 4 and 5 respectively.



Source	Coord	linates	Distance from Coast	Stack Height	Stack Diameter	Velocity ^[1]	Volumetric Flow rate ^[2]	Exhaust Density	Exhaust Temperature	Compound	Emission Rate ^[3]						
	mE	mN	m	m	m	m/s	m³/s	kg/m³	K		g/s						
Superphosphate Plant Scrubber	383,476	6,432,254	312	37.4	2.5	5.7	27.9	1.126	315	PM _{2.5} ^[4]	0.64						
Granulation Plant Scrubber	383,615	6,432,437	430	43.1	1.8	7.1	18.7	1.074	330	NH ₃	0.29						
Granulation Flant Scrubbei	303,013	0,432,437	430	43.1	1.0	7.1	10.7	1.074	330	PM _{2.5} ^[4]	0.18						
Granulation Plant De-duster	383,620	6,432,451	430	36.8	1.6	12.2	24.0	1.157 ^[5]	307	NH ₃	0.24						
Gianulation Flant De-dustei	303,020	0,432,431	430	30.6	1.0	12.2	24.0	1.101	001	PM _{2.5} ^[4]	0.29						
Nitric Acid Plant 1 (Normal)						31.4	29.8	0.932	378	NH ₃	0.079 ^[6]						
Millic Acid Plant 1 (Normal)	383,624	6,432,497	460	63.8	1.1	31.4	29.6	0.932	376	NO _x ^[7]	See Table 6						
Nitric Acid Plant 1 (Shutdown)		3,132,131				32.1	30.5	1.191 ^[5]	298	NO _x	70.37 ^[8]						
Nitria Asid Plant 2 (Normal)												37.8	35.9	0.932	378	NH ₃	0.096 ^[6]
Nitric Acid Plant 2 (Normal)	202.020	C 400 FC4	450	70.7	4.4	37.0	33.9	0.932	376	NO _x ^[7]	See Table 6						
Nitric Acid Plant 2 (Start-up)[9]	383,626	6,432,564	456	70.7	1.1	22.3	21.2	1.159	306	NO _x	37.81 ^[10]						
Nitric Acid Plant 2 (Shutdown)						35.9	34.1	1.191 ^[5]	298	NO _x	50.8 ^[8]						
Ammonia Plant Primary Reformer	383,811	6,432,690	640	30	2.1	13.7	48.9	0.774	458	NO _x	5.17						
Ammonia Plant Auxiliary Boiler	383,812	6,432,704	640	30	1.2	5.7	6.5	0.802	443	NO _x	1.59						
2008 Ammonium Nitrate Prilling	383,913	6 432 597	728	65	1.7	16.6	38.5	1.171 ^[5]	303	NH ₃	0.04						
Plant	303,813	6,432,587		65		16.6	38.5			PM _{2.5} ^[4]	0.26						

Notes

- 1. Based on average reported volumetric flow rate.
- 2. Average reported volumetric flow rate.
- 3. Maximum reported mass emission rate, except as noted.
- 4. In the absence of particulate sizing information, all reported PM was conservatively assumed to be PM_{2.5}.
- 5. An exhaust gas density of 1.13 kg/m³ was selected for use in the Dispmod in order to avoid negative buoyancy and enable the model to run.
- 6. The mass emission rate has been conservatively based on the maximum reported half hour average emission concentration of 4.8 ppm. This concentration is only expected to occur for 0.02% of the time and NH₃ concentrations are typically less than 1 ppm.
- 7. A probabilistic emissions profile was applied to NO_x emissions from the Nitric Acid Plants operating under normal conditions. The probabilistic emissions profile is presented in Table 6.
- 8. The mass emission rate has been based on the maximum concentration, as contained in the emission monitoring data for Nitric Acid Plant shut-downs provide by CSBP.
- 9. As start-up of the Nitric Acid Plants is restricted to one plant at a time, the baseline start-up scenario was modelled assuming Nitric Acid Plant 1 was operating under normal conditions while Nitric Acid Plant 2 was starting up (refer to Section 5.4.2).
- 10. The mass emission rate has been conservatively based on the half hour average emission limit of 2,000 mg/m³ (at 0°C and 101.3 kPa, dry) and a moisture content of 0.3%.

Table 5: Summary of Stack Pa	arameters ar	nd Emission	Estimates – Ex	pansion Emissi	ions Scenario						
Source	Coord	linates	Distance from Coast	Stack Height	Stack Diameter	Velocity ^[1]	Volumetric Flow rate ^[2]	Exhaust Density	Exhaust Temperature	Compound	Emission Rate ^[3]
	mE	mN	m	m	m	m/s	m³/s	kg/m³	K		g/s
Superphosphate Plant Scrubber	383,476	6,432,254	312	37.4	2.5	5.7	27.9	1.126	315	PM _{2.5} ^[4]	0.64
Granulation Plant Scrubber	383,615	6,432,437	430	43.1	1.8	7.1	18.7	1.074	330	NH ₃	0.29
Grandiation Flam Gorabbei	000,010	0,402,401	400	40.1	1.0	7.1	10.7	1.07 4	300	PM _{2.5} ^[4]	0.18
Granulation Plant De-duster	383,620	6,432,451	430	36.8	1.6	12.2	24.0	1.157 ^[5]	307	NH ₃	0.24
Crandiation Flam Be duoter	000,020	0,402,401	400	00.0	1.0	12.2	24.0		007	PM _{2.5} ^[4]	0.29
Nitric Acid Plant 1 (Normal)				63.8		41.6	39.5	0.932	378	NH ₃	0.11 ^[6]
Tritle Acid Flant F (Normal)	383,624	6,432,497	460		1.1	41.0	33.3		370	NO _x ^[7]	See Table 6
Nitric Acid Plant 1 (Shutdown)						41.6	39.5	1.191 ^[5]	298	NO _x	91.2 ^[8]
Nitric Acid Plant 2 (Normal)						41.6	39.5	0.932	378	NH ₃	0.11 ^[6]
Twitte / told T lain 2 (Termal)	383,626	6,432,564	456	70.7	1.1	41.0	00.0	0.002	070	NO _x ^[7]	See Table 6
Nitric Acid Plant 2 (Start-up)[9]	303,020	0,432,304	430	70.7	1.1	22.3	21.2	1.159 ^[5]	306	NO _x	37.81 ^[10]
Nitric Acid Plant 2 (Shutdown)						41.6	39.5	1.191 ^[5]	298	NO _x	58.0 ^[8]
Nitric Acid Plant 3 (Normal)						41.6	39.5	0.932	378	NH ₃	0.11 ^[6]
Tritile Acid Flant & (Normal)	383,633	6,432,672	465	70.7	1.1	41.0	33.3	0.332	370	NO _x ^[7]	See Table 6
Nitric Acid Plant 3 (Shutdown)						41.6	39.5	1.191 ^[5]	298	NO _x	58.0 ^[8]
Ammonia Plant Primary Reformer	383,811	6,432,690	640	30	2.1	13.7	48.9	0.774	458	NO _x	5.17
Ammonia Plant Auxiliary Boiler	383,812	6,432,704	640	30	1.2	5.7	6.5	0.802	443	NO _x	1.59
New Ammonia Plant Auxiliary Boiler	383,824	6,432,697	655	30	1.2	8.5	9.7	0.802	443	NO _x	2.39
2008 Ammonium Nitrate Prilling	383,913	6,432,587	728	65	1.7	20.7	48.1	1.171 ^[5]	303	NH ₃	0.04
Plant (Debottlenecked)		0,402,007	720	33	1.1	20.1	70.1			PM _{2.5} ^[4]	0.33

Notes

- 1. Based on average reported volumetric flow rate.
- 2. Average reported volumetric flow rate.
- 3. Maximum reported mass emission rate, except as noted.
- 4. In the absence of particulate sizing information, all reported PM was conservatively assumed to be PM_{2.5}.
- 5. An exhaust gas density of 1.13 kg/m³ was selected for use in the Dispmod in order to avoid negative buoyancy and enable the model to run.
- 6. The mass emission rate has been conservatively based on the maximum reported half hour average emission concentration of 4.8 ppm. This concentration is only expected to occur for 0.02% of the time and NH₃ concentrations are typically less than 1 ppm.
- 7. A probabilistic emissions profile was applied to NO_x emissions from the Nitric Acid Plants operating under normal conditions. The probabilistic emissions profile is presented in Table 6.
- 8. The mass emission rate has been based on the maximum concentration, as contained in the emission monitoring data for Nitric Acid plant shut-downs provide by CSBP.
- 9. As start-up of the Nitric Acid Plants is restricted to one plant at a time, the baseline start-up scenario was modelled assuming Nitric Acid Plants 1 and 3 were operating under normal conditions while Nitric Acid Plant 2 was starting up (refer to Section 5.4.2).
- 10. The mass emission rate has conservatively been based on the half hour average emission limit of 2,000 mg/m³ (at 0°C and 101.3 kPa, dry) and a moisture content of 0.3%.

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5.4.1 Identification and Treatment of Probabilistic Emissions

Analysis of the continuous emissions monitoring data provided by CSBP for the Nitric Acid Plants indicates that during 'normal' operations, the one hour average NO_x concentrations remain between 100 mg/m³ (STP, dry) and 150 mg/m³ (STP, dry) for the vast majority (>98%) of the time. However, peaks in the one hour average NO_x concentrations of up to 370 mg/m³ (STP, dry) have occurred which is comparable to the licence limit of 410 mg/m³ and are generally associated with a time period of a few hours following a start-up event. CSBP understands that these excursions are primarily related to the transition from manual to automatic operation of the Nitric Acid Plant NO_x emission control system following start-up of the plant(s).

In order to account for the short-term peak NO_x concentrations that occur during 'normal' operation of the Nitric Acid Plants, while also taking into consideration that NO_x concentrations remain much lower for the large majority of the time, a probabilistic approach was adopted to model the NO_x emissions from these sources.

A series of post-processing tools were developed by the DEC to determine the predicted GLCs associated with different frequencies of emissions from modelled sources as used for the Kwinana EPP sulphur dioxide redetermination (DEC, 2009b). In essence, these tools compute exceedance frequencies of a range of concentrations for a combination of emissions and multiply these exceedance frequencies by the probability that the emissions combination will occur, before summing the probability-weighted exceedance frequencies to give a final result.

Following the definition of emission profiles and the probability of occurrence associated with each case, the following modelling procedures are followed to determine the probability-weighted GLCs:

- The air dispersion model is run once with all emission sources using a representative emission rate (based on the emissions identified for each case). Fixed emissions sources (i.e. those sources for which emissions are not expected to vary significantly) are also included in the model run using their actual emission rates. The predicted concentrations for each variable emission source and for the fixed emission sources are saved to a file for each hour of the year and for each grid point such that they can be used by the post-processor.
- The potential combinations of the emissions cases across each source are reviewed to select the non-negligible "emissions scenarios" that need to be considered. This selection is done by computing the joint probability of every possible combination of emissions cases across all sources, screening out those combinations which fail an emissions-weighted probability threshold test and then re-assigning the screened fragments of probability such that the set of retained scenarios have probabilities which total 1.0. The emissions-weighted threshold is determined for each scenario by multiplying a user-specified constant threshold probability (e.g. 0.0001) by a factor which is the sum of all emissions represented by the scenario divided by the sum of all emissions when all industries are operating in "normal" (highest probability) mode. This weighting attaches importance to large emissions which might occur infrequently.



- For each non-negligible emissions scenario that is selected, the post-processor reads the ambient concentrations predicted by the air dispersion model, scales these concentrations by the ratio of the actual emission rates to those used in the model. The predicted concentrations resulting from each emission source are then accumulated and combined with the concentrations resulting from the constant emission sources, to determine the total ground-level concentration for each model grid point for each timestep. The post-processor checks for exceedances of each of 20 "reference levels" which span the expected range of ground-level concentrations (e.g. 20 points over the range 0 to 200 μg/m³) and updates the running totals for each grid-point with the probability that the combination of emissions can occur and then proceeds to the next time-step.
- Once the post-processing of a scenario is complete the accumulated number of hours above each of the 20 reference levels are multiplied by the scenario's probability of occurrence to calculate the total expected number of hours of exceedance for each reference level, at each grid point, for that scenario.
- All scenarios are processed sequentially and the probability-weighted exceedance counts for each reference level, across all scenarios, are summed at each grid-point. These resultant total exceedance counts include non-integer values which are interpreted as the average number of exceedances of a reference level per year (e.g. an exceedance count of 0.25 is interpreted to mean "once in four years").
- The output from the post-processor is a file that contains the count of exceedances for each grid point and for each reference level. This output file is used to extract exceedance counts of particular reference levels for contouring or calculation of cumulative frequencies. A single grid of 99.9 percentile concentrations is also computed by log linear interpolation between the exceedance grids to find, for each grid-point, the concentration at which the annual exceedance count is 8.77 (the 99.9 percentile level). The contour map produced from this grid is used to assess compliance with standards.

This approach has also been adopted in the recent redetermination of the maximum permissible quantities for sulphur dioxide at Kwinana (DEC, 2009b).

A summary of the probabilistic emissions profiles defined for the Nitric Acid Plants under the baseline and expansion emissions scenarios is presented in Table 6. Note start-up and shutdown operations have been excluded from the probabilistic approach and the predicted GLCs associated with these events have been determined separately as they are not totally independent events for each plant.



	Summary of F Normal Oper		Emissions	Profile - Niti	ric Acid Plan	ıts,
Source	Volumetric Flowrate ¹	Exhaust NO _x Concentration			NO _x Emission Rate	Probability
	m³/s	K	mg/m³, STP	mg/m ^{3[2]}	g/s	%
		Baselin	e Emissions S	cenario		
			120	86	2.6	96%
Nitric Acid Plant 1	29.8	378	150	108	3.2	2%
· idiri			410 ^[3]	295	8.8	2%
			120	86	3.1	96%
Nitric Acid Plant 2	35.9	378	150	108	3.9	2%
r iam 2			410 ^[3]	295	10.6	2%
		Expansi	on Emissions	Scenario	1	
			120	86	3.4	96%
Nitric Acid Plant 1	39.5	378	150	108	4.3	2%
· idiri			410 ^[3]	295	11.7	2%
			120	86	3.4	96%
Nitric Acid Plant 2	39.5	378	150	108	4.3	2%
i idili Z			410 ^[3]	295	11.7	2%
			120	86	3.4	96%
Nitric Acid Plant 3	39.5	378	150	108	4.3	2%
, iditi o			410 ^[3]	295	11.7	2%

Notes

- 1. At stack conditions
- 2. Assumes a moisture content of 0.3%.
- 3. Hourly average NO_x emission concentration limit (excluding start-ups), as specified in CSBP's Environmental Licence.

5.4.2 Modelled Scenarios

Air quality impacts have been assessed for the baseline and expansion emissions scenarios operating under the following conditions:

- Normal Operations;
- · Nitric Acid Plant Start-up; and
- Nitric Acid Plant Shutdown.



Under normal operations, each source was modelled assuming constant and continuous emissions throughout the modelled year, with the exception of NO_x emissions from the Nitric Acid Plants. A probabilistic emissions profile was developed for the Nitric Acid Plants to account for variations in the concentration of NO_x emissions during 'normal' operations (refer to Section 5.4.1).

As start-up of the Nitric Acid Plants is restricted to one plant at a time, the baseline start-up scenario was modelled assuming Nitric Acid Plant 1 was operating under normal conditions while Nitric Acid Plant 2 was starting up, and all other sources of NO_x emissions (i.e. the Ammonia Plant Primary Reformer and Auxiliary Boiler stacks) were operating under normal conditions. Under the expansion start-up scenario, Nitric Acid Plants 1 and 3 were assumed to be operating under normal conditions while Nitric Acid Plant 2 was starting up and all other sources of NO_x emissions were operating under normal conditions.

The assessment has also taken into account that the duration of a Nitric Acid Plant start-up is typically less than 30-minutes by modelling the cumulative impacts of the Nitric Acid Plant 2 operating under start-up conditions for 30-minutes and under normal conditions for the remaining 30-minutes, for each modelled hour. The Nitric Acid Plant 2 under start-up and under normal conditions was treated as two separate sources in the model and the average of the maximum 1-hour NO_x concentrations predicted for both 'sources' was determined by adjusting the respective NO_x emission rates by half.

Under certain upset conditions, such as loss of power to the site, it is possible that each Nitric Acid Plant would need to be shut down at the same time. As such, the 'shutdown' scenario was conservatively modelled assuming all Nitric Acid Plants would be shutdown simultaneously while all other sources of NO_x emissions (i.e. the Ammonia Plant Primary Reformer and Auxiliary Boiler stacks) were modelled under normal conditions. Similar to the treatment of Nitric Acid Plant start-ups, the assessment has taken into account that the duration of a Nitric Acid Plant shutdown is typically less than 10-minutes by modelling the cumulative impacts of each of the Nitric Acid Plants operating under shutdown conditions for 10-minutes and assuming no further NO_x emissions for the remaining 50-minutes (as the plants are in shut down mode), for each modelled hour.

While it is anticipated that the existing Auxiliary Boiler will operate for no more than 5% of the time (i.e. in the event of multiple plant start-ups), the maximum 1-hour NO_x GLCs have been predicted for normal, start-up and shutdown operations under the expansion scenario conservatively assuming that both the existing and proposed Auxiliary Boilers are operating simultaneously. The annual average NO_x GLCs have been predicted for normal operations under the expansion scenario assuming the existing Auxiliary Boiler was not in operation.

5.5 Treatment of Oxides of Nitrogen Concentrations

A key element in assessing the potential environmental impacts from ground level NO_2 concentrations is estimating the NO_2 concentrations from modelled NO_x emissions. The final NO_2 concentration is a combination of the NO_x emitted as NO_2 from the source stacks and the amount of NO_x that is converted to NO_2 by oxidation in the plume after release.



Generally, after NO_x is emitted from the stack, additional NO_2 is formed as the plume mixes and reacts with the surrounding air. There are several reactions that both form and destroy NO_2 , but the primary reaction is oxidation with ozone according to the following reaction:

$$NO + O_3 \rightarrow NO_2 + O_2$$
 Equation 1

This reaction is essentially instantaneous as the plume entrains the surrounding air. It is limited by the amount of ozone available and by how quickly the plume mixes with the surrounding air. Thus, the ratio of NO₂ to NO_x increases as the plume disperses downwind.

In the absence of modelling including photochemistry directly, there are four common methods used to estimate the final ratio of NO_2 to NO_x . These are:

- Total Conversion: This method conservatively assumes all NO_x is converted to NO₂.
- United States Environmental Protection Agency (USEPA) Tier 2 Assumption: This
 method assumes a national default ratio of NO₂ to NO_x of 0.75.
- Ozone Limiting Method (OLM): This method commonly assumes 10% of the stack NO_x emissions are NO₂ and that ozone is the limiting reagent for Equation 1 (i.e. the ozone concentration is less than the remaining NO_x concentration). The estimated NO₂ concentration can be calculated using Equation 2 (the equation can vary depending on the NO₂ content of the stack emissions and whether ozone or NO_x is the limiting reagent):

$$NO_2 = (0.1 \times NO_x) + O_3$$
 Equation 2

Where:

NO₂ = estimated ground level concentration of nitrogen dioxide (ppm)
 NO_x = predicted ground level concentration of oxides of nitrogen (ppm)

O₃ = measured background concentration of ozone (ppm)

The actual NO₂ in the stack emissions can be used should these data be available.

 Ambient Ratio Method (ARM): This method typically relies on at least a years worth of ambient monitoring data and assumes the final plume NO₂ to NO_x ratio will be equal to the existing ambient NO₂ to NO_x ratio. An equation developed by Dames and Moore (1993) based on monitoring data from Kwinana determined a NO₂ to NO_x ratio of 0.59 to 0.43 as follows:

$$[NO_2] = 0.59 \times [NO_x] - 0.00038 \times [NO_x]^2$$
 Equation 3

The suitability of each of these methods with regards to predicting NO₂ GLCs associated with emissions from CSBP was investigated by ENVIRON as part of a previous air quality assessment (ENVIRON, 2008). The Total Conversion and USEPA Tier 2 Assumption were considered overly conservative and did not allow for locally available data to be taken into

account. The OLM was also considered likely to overestimate NO₂ concentrations as it would rely on very conservative estimates of background ozone concentrations (one hour maximum for the region).

The ARM method and the equation developed by Dames and Moore (1993) was considered the most appropriate method while still remaining conservative enough that actual NO_2 concentrations are likely less than those predicted by the modelling. This method was also selected for the purpose of this report as it is consistent with previous air quality studies carried out by ENVIRON for CSBP (i.e. ENVIRON, 2008) and other analyses conducted in the Kwinana region.

5.6 Ammonium Nitrate Deposition Over Cockburn Sound

Particulate emissions from the 2008 Ammonium Nitrate Prilling Plant are largely composed of ammonium nitrate particles. The Public Environmental Review (PER) completed for the previous Ammonium Nitrate Production Expansion Project (CSBP, 2005) looked at ammonium nitrate particle deposition over Cockburn Sound as a contributing factor to the total load of nitrogen entering the Sound. The assessment included emissions from Prilling Plant 1 (now decommissioned), and concluded that the nutrient addition from particulate ammonium nitrate were not significant when compared to the total load of nitrogen entering Cockburn Sound.

Since the 2005 PER was conducted, the estimated particulate emission load from the 2008 Ammonium Nitrate Prilling Plant has been revised from 2.8 g/s (derived originally from equipment design specifications), down to 0.26 g/s (derived from the results of stack testing during actual plant operations). The concentration of particulate emissions from the 2008 Ammonium Nitrate Prilling Plant will not be impacted as a result of the expansion project (refer to Section 2.3.1), however the particulate emission load is expected to increase by up to 25% (to 0.33 g/s), as a result of the increased volumetric flow rate of emissions arising from the debottlenecking (refer to Tables 4 and 5).

The particulate load from the 2008 Ammonium Nitrate Prilling Plant for the expansion project is estimated to be an order of magnitude lower than was used for the previous assessment of ammonium nitrate deposition over Cockburn Sound. As such, based on the findings from the previous assessment of ammonium nitrate deposition over Cockburn Sound conducted for the 2005 PER, emissions from the debottlenecked 2008 Ammonium Nitrate Prilling Plant are expected to remain a relatively minor contributor to the total load of nitrogen entering Cockburn Sound.

6 Modelling Results

6.1 Normal Operations

A summary of the maximum off-site NH_3 , PM (as $PM_{2.5}$) and NO_x concentrations predicted by both the Dispmod and ISC3 dispersion models for the baseline and expansion emissions scenarios, under normal operating conditions is presented in Table 7. NO_2 concentrations have been calculated from the predicted NO_x concentrations using the Dames and Moore (1993) equation (refer to Section 5.5).

The concentrations predicted for CSBP operating under normal conditions in isolation have been compared to the relevant ambient air quality criteria and are expressed as percentages of the guideline values. The concentrations highlighted in bold represent the highest off-site GLC predicted by the alternative models and model options applied. Contours of the maximum short-term (1-hour or 24-hour average) and long-term (annual average) NH₃, PM (as PM_{2.5}) and NO₂ GLCs predicted by the most conservative model and configuration are presented as Figures 5 through 10.



		В	aseline Emissions Scenario	Ex	pansion Emissions Scenar	io	
Compound	Averaging Period	Dispmod	ISC3		- Dispmod -	ISC3	
		Dispillod	Rural	Urban	Dispillod	Rural	Urban
	1-hour	11	25	24	11	25	24
	Guideline ^[1]	330	330	330	330	330	330
NH_3	% Guideline	3.3%	7.6%	7.3%	3.3%	7.6%	7.3%
IN□3	Annual	0.3	1.0	1.1	0.3	1.0	1.1
	Guideline ^[2]	180	180	180	180	180	180
% Guideline	% Guideline	0.1%	0.5%	0.6%	0.1%	0.5%	0.6%
24-hour Guideline ^[3] % Guideline	24-hour	3.8	13.5	13	3.8	13.5	13
	Guideline ^[3]	25	25	25	25	25	25
	% Guideline	15%	54%	52%	15%	54%	52%
PM (as PM _{2.5})	Annual	0.5	2.1	2.1	0.5	2.1	2.1
	Guideline ^[3]	8	8	8	8	8	8
	% Guideline	6.5%	27%	26%	6.5%	27%	26%
NO	1-hour	50	55	100	55	95	155
NO_x	Annual	0.7	2.0	3.4	1.4	3.7	5.1
	1-hour	29	31	55	31	53	82
	Guideline ^[3]	246	246	246	246	246	246
NO	% Guideline	12%	13%	22%	13%	21%	34%
NO ₂	Annual	0.4	1.2	2.0	0.8	2.2	3.0
	Guideline ^[3]	62	62	62	62	62	62
	% Guideline	0.7%	1.9%	3.2%	1.4%	3.6%	4.9%

Notes

Source: Vic EPA (2001).
 Source: UKEA (2009).
 Source: NEPC (2003).

The data presented in Table 7 indicates that the expansion project is likely to result in an increase in the maximum off-site 1-hour and annual average NO₂ GLCs predicted for normal operations. However, the maximum off-site 1-hour and annual average NH₃ GLCs predicted for normal operations are expected to remain unchanged, as are the maximum off-site 24-hour and annual average PM (as PM_{2.5}) GLCs. All of the predicted GLCs comply with the relevant ambient air quality criteria, for both the baseline and expansion scenarios when CSBP's operations are considered in isolation.

The ISC3 model consistently predicts higher GLCs than the Dispmod model. The higher GLCs associated with ISC3 are likely to be a result of the building wake effects on the predicted plume dispersion. Within ISC3, the rural setting tends to predict higher short-term maximum concentrations, while the urban setting predicts higher long-term concentrations.

The maximum off-site 1-hour average NH $_3$ GLC predicted for both the baseline and expansion emissions scenarios for CSBP in isolation is 25 µg/m 3 (ISC3 rural setting). This concentration comfortably complies with the UKEA's 1-hour average NH $_3$ EAL of 2,500 µg/m 3 and the Vic SEPP equivalent design criteria of 330 µg/m 3 . The maximum off-site annual average NH $_3$ GLC predicted for both the baseline and expansion scenarios is 1.1 µg/m 3 (ISC3 urban setting). This concentration also complies comfortably with the annual average NH $_3$ UKEA EAL of 180 µg/m 3 .

Contours of the maximum 1-hour average NH₃ GLCs predicted for the baseline and expansion emission scenarios for CSBP's operations in isolation, as presented in Figure 5, illustrate that peak off-site impacts are predicted to occur immediately to the west of the CSBP site boundary. Contours of the annual average NH₃ GLCs also indicate peak off-site impacts are predicted to occur immediately to the west of the CSBP site boundary (Figure 6).

Analysis of the model results indicates that emissions from the Granulation Plant Scrubber Stack and De-duster Stack primarily drive the maximum predicted off-site NH₃ concentrations from CSBP's emission sources. As the Granulation Plant does not form part of the expansion project, the emissions and consequent GLCs arising from these sources remains the same as for existing operations. The combined emissions from the Nitric Acid Plants and Prilling Plant contribute less than 8% to the maximum predicted 1-hour or annual average NH₃ GLC under both the baseline and expansion scenarios. As such, the upgrade of the Nitric Acid Plants and Prilling Plant and the associated increase in NH₃ emissions from these sources under the expansion project do not significantly impact on the maximum off-site NH₃ GLCs predicted for CSBP's operations in isolation.

Emissions from the Prilling Plant contribute less than 6% to the maximum predicted 24-hour and annual average PM (as $PM_{2.5}$) GLCs under both the baseline and expansion scenarios. As such, the increase in PM emissions from this source under the expansion project has a minimum effect on the maximum predicted off-site PM GLCs. Analysis of the predicted PM (as $PM_{2.5}$) GLCs indicates that emissions from the Granulation Plant De-duster Stack contribute less than 36% to the maximum predicted 24-hour and annual average PM (as $PM_{2.5}$) GLCs for CSBP in isolation.

The maximum off-site 24-hour average PM (as $PM_{2.5}$) GLC predicted for both the baseline and expansion emissions scenarios for CSBP's operations in isolation is 13.5 μ g/m³ (ISC3 rural setting). This concentration complies with the 24-hour average advisory reporting



standard for PM $_{2.5}$ of 25 µg/m 3 . As all of the particulate emissions were assumed to be PM $_{2.5}$, compliance with the PM $_{2.5}$ standard also demonstrates compliance with the 24-hour average PM $_{10}$ NEPM of 50 µg/m 3 . The maximum off-site annual average PM (as PM $_{2.5}$) GLC predicted for both the baseline and expansion scenarios for CSBP's operations in isolation is 2.1 µg/m 3 (ISC3 rural setting). This concentration also complies with the annual average PM $_{2.5}$ advisory reporting standard of 8 µg/m 3 .

Contours of the maximum predicted 24-hour average PM (as PM_{2.5}) GLCs predicted for both the baseline and expansion emission scenarios for CSBP's operations in isolation are presented in Figure 7 and indicate that peak off-site impacts are likely to occur to the west of the site boundary. Contours of the annual average PM (as PM_{2.5}) GLCs also indicate peak off-site impacts are predicted to occur immediately to the west of the CSBP site boundary (Figure 8).

The maximum off-site 1-hour average NO_2 GLC predicted under the expansion scenario for CSBP in isolation is 82 $\mu g/m^3$ (ISC3 urban setting). This concentration is 50% higher than the maximum 1-hour average NO_2 GLC predicted for the baseline scenario, but is well below the 1-hour average NEPM for NO_2 of 246 $\mu g/m^3$. The maximum off-site annual average NO_2 GLC predicted under the expansion scenario for CSBP in isolation is 3.0 $\mu g/m^3$ (ISC3 urban setting). This concentration is also 50% higher than the maximum off-site annual average NO_2 GLC predicted for the baseline scenario, but is well below the annual average NO_2 NEPM of 62 $\mu g/m^3$.

Contours of the maximum 1-hour average NO_2 GLCs predicted for the baseline and expansion emission scenarios for CSBP's operations in isolation are presented in Figure 9. Peak concentrations are predicted to occur across the model domain in each scenario (Figure 9). The annual average NO_2 GLCs predicted for the baseline and expansion emission scenarios indicate that the highest long-term NO_2 GLCs are predicted to occur immediately to the north of the CSBP site boundary (Figure 10).



6.1.1 Cumulative Impacts

A summary of the cumulative impacts of normal operations under the baseline and expansion emissions scenarios on ambient air quality at the available monitoring locations is presented in Table 8. Ambient NH₃ concentrations monitored at the Wells Park site and ambient NO₂ GLCs monitored at the Hope Valley and North Rockingham sites have been used in this assessment (refer to Section 4).

As the monitored GLCs effectively take into account the regional impact of emissions from CSBP's existing operations (i.e. the baseline emissions scenario), the cumulative impact of CSBP's proposed expansion project on ambient concentrations at each site has been determined by adding the maximum incremental change in predicted GLCs associated with the expansion project at each of the monitoring sites to the monitored GLCs at each site. It should be noted that this assessment is extremely conservative for the short term (i.e. 1-hour) averaging times as the maximum predicted incremental change in GLCs associated with the proposed expansion project at each of the monitoring sites has been added to the maximum ambient concentrations recorded at the monitoring sites, which is not expected to occur in reality.

The cumulative GLCs have been expressed as a percentage of the corresponding ambient air quality criteria. The concentrations highlighted in bold represent the greatest incremental change in GLCs predicted by the alternative models and model options applied. The measured ambient GLCs have also been expressed as a percentage of the corresponding ambient air quality criteria, to enable comparison of the relative increase in cumulative air quality impacts predicted to occur as a result of the expansion project, within the context of compliance with the relevant ambient air quality criteria.

	•	ne Cumulative Maxim nissions Scenario	um Predicted	d GLCs for th	е
			Max	imum GLC (µg/	/m3)
Compound	Averaging Period	Reference Parameter	Dianmad	IS	C3
			Dispmod	Rural	Urban
		Hope Valle	у		
		Maximum Incremental Change ¹	4.1	8.8	11.6
		Ambient GLC ²	173	173	173
		Cumulative GLC ³	177	182	185
NO_2	1-hour	Guideline ⁴	246	246	246
		% Guideline Ambient GLC	70%	70%	70%
		% Guideline Cumulative GLC	72%	74%	75%

			Maxi	Maximum GLC (µg/m3)			
Compound	Averaging Period	Reference Parameter	Dianmad	ISC3			
	1 Criou		Dispmod	Rural	ISC3 IsC3		
		Maximum Incremental Change ¹	0.06	0.11	0.05		
	Annual	Ambient GLC ²	18	18	18		
		Cumulative GLC ³	18.1	18.1	18.1		
NO ₂		Guideline ⁴	62	62	62		
		% Guideline Ambient GLC	29.0%	29.0%	29.0%		
		% Guideline Cumulative GLC	29.1%	29.2%	29.1%		
		North Rocking	ham				
		Maximum Incremental Change ¹	4.3	9.3	16		
		Ambient GLC ²	113	113	113		
		Cumulative GLC ³	117	122	129		
	1-hour	Guideline ⁴	246	246	246		
		% Guideline Ambient GLC	46%	46%	46%		
NO		% Guideline Cumulative GLC	48%	50%	52%		
NO ₂		Maximum Incremental Change ¹	0.02	0.12	0.13		
		Ambient GLC ²	27	27	27		
	Cumulative GLC ³	27.0	27.1	27.1			
	Annual	Guideline ⁴	62	62	62		
		% Guideline Ambient GLC	43.5%	43.5%	43.5%		
		% Guideline Cumulative GLC	43.6%	43.7%	43.8%		

	•	ne Cumulative Maxim nissions Scenario	um Predicted	d GLCs for th	е	
			Max	imum GLC (µg	um GLC (µg/m3)	
Compound	Averaging Period	Reference Parameter	Dianmed	ISC3		
			Dispmod	Rural	Urban	
		Wells Par	k			
		Maximum Incremental Change ¹	0.004	0.004	0.01	
		Ambient GLC ²	17	17	17	
		Cumulative GLC ³	17	17	17	
		Guideline ⁵	180	180	180	
		% Guideline	9.4%	9.4%	9.4%	

Notes

- 1. Maximum incremental change in predicted GLCs associated with the expansion project.
- 2. Ambient GLC as monitored by the DEC.
- 3. The cumulative GLCs have been calculated by adding the maximum predicted incremental change in GLCs associated with the expansion project to the monitored GLCs at each site.
- 4. Source: NEPC (2003).
- 5. Source: UKEA (2009).

The data presented in Table 8 indicates that CSBP's expansion project may result in an increase in the short-term ambient NO₂ GLCs at the Hope Valley and North Rockingham monitoring stations, while long-term ambient NO₂ GLCs at these sites are expected to increase only marginally.

The maximum 1-hour average NO_2 GLC monitored at the Hope Valley site is 173 $\mu g/m^3$. Under the expansion project the cumulative 1-hour average NO_2 GLC is predicted to increase by approximately 7% to 185 $\mu g/m^3$ (ISC3 urban setting). This concentration remains below the 1-hour average NO_2 NEPM of 246 $\mu g/m^3$ and is primarily driven by the maximum 1-hour NO_2 GLC measured at Hope Valley. Furthermore, it is considered highly conservative as it assumes that the monitored and predicted maximum concentrations occur at the same time.

The highest annual average NO_2 GLC monitored at the Hope Valley site is $18 \mu g/m^3$. Under the expansion project the cumulative annual average NO_2 GLC is predicted to increase by 0.6% to $18.1 \mu g/m^3$ (ISC3 rural setting). This concentration remains well below the annual average NO_2 NEPM of $62 \mu g/m^3$.

The maximum 1-hour average NO_2 GLC monitored at the North Rockingham site is 113 µg/m³. Under the expansion project the cumulative 1-hour average NO_2 GLC is predicted to increase by approximately 14% to 129 µg/m³ (ISC3 urban setting). This concentration is equal to 52% of the 1-hour average NO_2 NEPM and is primarily driven by the maximum 1-hour NO_2 GLC measured at North Rockingham. It is also considered highly



conservative as it assumes that the monitored and predicted maximum concentrations occur at the same time.

The highest annual average NO_2 GLC monitored at the North Rockingham site is 27 μ g/m³. Under the expansion project the cumulative annual average NO_2 GLC is predicted to increase by 0.4% to 27.1 μ g/m³ (ISC3 urban setting) and remains below the annual average NO_2 NEPM of 62 μ g/m³.

The CSBP expansion project is not expected to impact on the cumulative long-term ambient NH $_3$ GLCs predicted at the Wells Park monitoring station. The long-term average NH $_3$ GLC monitored at the Wells Park site is 17 μ g/m 3 . This concentration is predicted to remain unchanged under the expansion project and complies comfortably with the annual average ammonia UKEA EAL of 180 μ g/m 3 .

Comparison of the predicted cumulative GLCs to monitored ambient concentrations, when expressed as a percentage of the relevant ambient air quality criteria, indicates that the expansion project is not expected to have a significant bearing upon achieving compliance with the relevant ambient air quality criteria in Hope Valley, North Rockingham or Wells Park, relative to existing cumulative air quality impacts.

6.2 Start-up Operations

A summary of the maximum off-site 1-hour NO_x concentrations predicted by both the Dispmod and ISC3 dispersion models for start-up conditions under both the baseline and expansion emissions scenarios is presented in Table 9. Each scenario has been modelled assuming Nitric Acid Plant 2 is operating under start-up conditions for 30-minutes and then normally for the other 30 minutes of every hour, while all other sources of NO_x emissions are operating under normal conditions.

 NO_2 concentrations have been calculated from the predicted NO_x concentrations using the Dames and Moore (1993) equation (refer to Section 5.5). The predicted concentrations have been compared to the relevant ambient air quality criteria and are expressed as percentages of the guideline values. The concentrations highlighted in bold represent the highest off-site GLC predicted by the alternate models and model options applied. Contours of the most conservative maximum 1-hour average NO_2 GLCs as predicted by Dispmod are presented as Figure 11.



Compound	Averaging Period	Baseline Emissions Scenario			Expansion Emissions Scenario		
		Dianmed	ISC3		Dianmod	ISC3	
		Dispmod	Rural	Urban	Dispmod	Rural	Urban
NO_x	1-hour	403	257	300	524	345	429
NO ₂	1-hour	176	127	143	205	158	183
	Guideline ^[1]	246	246	246	246	246	246
	% Guideline	72%	51%	58%	83%	64%	75%

1. Source: NEPC (2003).

The data presented in Table 9 indicates that the maximum off-site 1-hour NO₂ GLCs predicted for start-up operations are expected to increase following the expansion project, although remain below the applicable ambient air quality criteria. The Dispmod model predicts higher GLCs than the ISC3 model. This is likely to be a result of start-up emissions from the Nitric Acid Plant 2 stack (which primarily drive the maximum predicted GLCs), being free from building wakes and the dominant influence of coastal fumigation (as considered in the Dispmod model) on the dispersion of emissions from this source.

The maximum off-site 1-hour average NO_2 GLC predicted under the expansion scenario is 205 μ g/m³. This concentration is 16% higher than the maximum 1-hour average NO_2 GLC predicted for the baseline scenario, although remains below the 1-hour average NEPM for NO_2 of 246 μ g/m³. The peak off-site 1-hour average NO_2 concentrations are predicted to occur along the western boundary of the site, as illustrated in Figure 11.

6.3 Shutdown Operations

A summary of the maximum off-site 1-hour NO_x concentrations predicted by both the Dispmod and ISC3 dispersion models for shutdown conditions under both the baseline and expansion emissions scenarios is presented in Table 10. The baseline scenario has been modelled assuming Nitric Acid Plants 1 and 2 are shutting down, while all other sources of NO_x emissions are operating under normal conditions. The expansion scenario has been modelled assuming Nitric Acid Plants 1, 2 and 3 are shutting down and all other sources of NO_x emissions are operating as normal.

 NO_2 concentrations have been calculated from the predicted NO_x concentrations using the Dames and Moore (1993) equation (refer to Section 5.5). The predicted concentrations have been compared to the relevant ambient air quality criteria and are expressed as percentages of the guideline values. The concentrations highlighted in bold represent the highest off-site GLC predicted by the alternate models and model options applied. Contours of the most conservative maximum 1-hour average NO_2 GLCs as predicted by ISC3 (urban setting) are presented as Figure 12.

Compound	Averaging Period	Baseline Emissions Scenario			Expansion Emissions Scenario		
				C3	Dianmod	ISC3	
		Dispmod	Rural	Urban	Dispmod	Rural	Urban
NO _x	1-hour	302	279	260	442	373	400
NO_2	1-hour	143	135	128	187	167	175
	Guideline ^[2]	246	246	246	246	246	246
	% Guideline	58%	55%	52%	76%	68%	71%

The data presented in Table 10 indicates that the maximum off-site 1-hour NO_2 GLCs predicted for shutdown operations are expected to increase following the expansion project, while remaining below the NEPM ambient air quality criteria. The ISC3 model (using the urban setting) predicts higher GLCs than the Dispmod model. This is likely to be a result of the building wake effects on the predicted plume dispersion.

The maximum off-site 1-hour average NO_2 GLC predicted under the expansion scenario is 175 $\mu g/m^3$. This concentration is 37% higher than the maximum 1-hour average NO_2 GLC predicted for shutdown operations under the baseline scenario, although remains below the 1-hour average NEPM for NO_2 of 246 $\mu g/m^3$. The peak off-site 1-hour average NO_2 concentrations are predicted to occur along the western boundary of the site, as illustrated in Figure 12.

6.4 Contribution to Photochemical Smog Pollution

Photochemical smog is an air pollution problem common in large cities. It is characterised by high ozone concentrations at ground level, and can be generated through the interaction of NO_x and reactive organic compounds (ROC) in the environment. Potential sources of NO_x and ROC include industrial processes, vehicle exhausts and bushfires.

Current ambient air quality monitoring of ozone concentrations reported by the DEC (2010) for the Perth airshed indicate that the NEPM 1-hour and 4-hour ozone standards (0.10 ppm and 0.08 ppm respectively) were exceeded at the inland Caversham and Rolling Green monitoring sites (located more than 40 km north east of Kwinana) during 2009. Only the 4-hour ozone concentrations recorded at Rolling Green did not meet the NEPM goal of no more than 1-day in excess of the standard. The DEC (2010) indicated that these events were smoke induced and were the first exceedences of the NEPM 1-hour and 4-hour ozone standards recorded since 2004.

The Perth Photochemical Smog Study (Western Power and Department of Environmental Protection, 1996) found that the control of photochemical smog is a complex issue in the Perth airshed. The study also reported that motor vehicles were the dominant cause of

photochemical smog in the Perth airshed being the largest emission sources of NO_x and ROC.

Overall CSBP is a relatively small emitter of NO_x in the Perth airshed. Data from the National Pollutant Inventory (NPI) for 2008-2009 indicates that CSBP emitted 340 tonnes of NO_x compared to the total airshed emissions of 58,090 tonnes (or 0.59% of the total airshed emissions). In considering these figures, the 2008-2009 NPI data indicate that within the Perth airshed approximately 41,717 tonnes (out of the total of 58,090 tonnes) of NO_x emissions are from diffuse (i.e. non industrial) sources including motor vehicles (28,000 tonnes) and biogenic sources (8,400 tonnes) and that these diffuse emission estimates are for 1999.

The proposed NAP Expansion Project will apply Best Available Techniques (BAT) for controlling NO_x emissions and is conservatively estimated to add approximately 150 tonnes per year of NO_x to the Perth airshed (i.e. a further 0.26% to the total airshed NOx emissons). Due to the complexity of photochemistry in the Perth airshed, it is difficult to reliably quantify the impact of such a small increase in the overall NO_x emissions as the change in the total airshed's emission is very small and would be no more than "noise" in any numerical modelling assessment.

The Perth Photochemical Smog Study found that the emissions from the KIA "resulted in a significant quenching of ozone across those portions of the metropolitan area impacted by the Kwinana NO_x plume" (Western Power and Department of Environmental Protection, 1996). This quenching was due to the presence of NO and a low ROC: NO_x ratio within the KIA emissions. Therefore, as the proposal will result in a small increase in the airshed's NO_x emissions, it may result in further slight quenching of ozone in the airshed. The proposal will result in a small reduction in the ROC- NO_x ratio which may also contribute to a small reduction in the ozone formation potential.



7 Conclusions

Air dispersion modelling has been undertaken to assess the potential air quality impacts arising from the atmospheric emissions from CSBP's ammonium nitrate expansion project at the Kwinana Industrial Complex. The modelling approach used for the assessment is conservative (i.e. tends to over-predict GLCs) throughout, and as such the results are considered to be representative of potential worst-case air quality impacts.

The results of the air dispersion modelling assessment indicate that atmospheric emissions associated with the expansion project at the CSBP Kwinana Industrial Complex are not likely to result in unacceptable air quality impacts.

Under normal operating conditions, the model results indicate that the expansion project is likely to result in a 50% increase in the predicted maximum off-site 1-hour and annual average NO_2 GLCs. The maximum short-term and long-term off-site NH_3 and PM (as $PM_{2.5}$) GLCs predicted for the expansion emissions scenario are expected to remain unchanged.

The predicted concentrations for CSBP's operations in isolation and under the expansion emissions scenario comply with the relevant ambient air quality criteria, as follows:

- the maximum predicted 1-hour average NH₃ concentration of 25 μg/m³ is equal to 3.3% of the Vic SEPP equivalent 1-hour average design criteria for NH₃;
- the maximum predicted annual average NH₃ GLC of 1.1 μg/m³ is equal to 0.6% of the corresponding UKEA EAL;
- the maximum predicted 24-hour average PM (as PM_{2.5}) concentration of 13.5 μg/m³ is equal to 54% of the 24-hour average PM_{2.5} advisory reporting standard. As all of the particulate emissions were assumed to be PM_{2.5}, compliance with the PM_{2.5} standard also demonstrates compliance with the 24-hour average PM₁₀ NEPM of 50 μg/m³. Emissions from the Prilling Plant contribute less than 6% to the maximum predicted 24-hour PM (as PM_{2.5}) GLCs;
- the maximum predicted annual average PM (as PM_{2.5}) concentration of 2.1 μg/m³ is equal to 27% of the corresponding advisory reporting standard. Emissions from the Prilling Plant contribute less than 6% to the maximum predicted annual average PM (as PM_{2.5});
- the maximum predicted 1-hour average NO₂ concentration of 82 μg/m³ is equal to 34% of the 1-hour average NEPM for NO₂; and
- the maximum predicted annual average NO₂ concentration of 3.0 μg/m³ is equal to 4.9% of the corresponding NEPM.

Under start-up and shutdown operations, the expansion project is expected to lead to increases of 16% and 31% respectively in the maximum 1-hour average NO₂ GLCs. However, the predicted concentrations for CSBP's operations in isolation comply with the NEPM criteria, as follows:

With the Nitric Acid Plant 2 operating under start-up conditions for 30-minutes and then
normally for the other 30 minutes of every hour and the remaining NO₂ emission
sources operating under normal conditions, the maximum predicted 1-hour average



 NO_2 concentration is 205 $\mu g/m^3$ and is equal to 83% of the 1-hour average NEPM for NO_2 ; and

With Nitric Acid Plants 1, 2 and 3 operating under shutdown conditions and other NO₂ emission sources at normal conditions, the maximum predicted 1-hour average NO₂ concentration is 187 μg/m³ and is equal to 76% of the 1-hour average NEPM for NO₂.

The maximum predicted concentrations for start-up and shutdown conditions are considered to be conservative as the emissions are expected to occur less than 1% of the time, and hence may not necessarily coincide with the occurrence of worst-case meteorological conditions.

Assessment of the cumulative impact of emissions associated with normal operations under the expansion scenario and background levels of air pollutants in the Kwinana area indicates that the expansion project may conservatively result in an increase in short-term ambient NO₂ GLCs at the Hope Valley and North Rockingham monitoring stations, as follows:

- the cumulative 1-hour NO₂ GLC is predicted to increase by approximately 7% to 185 μg/m³ at Hope Valley; and
- the cumulative 1-hour NO_2 GLC is predicted to increase by 14% to 129 $\mu g/m^3$ at North Rockingham.

The cumulative concentrations however, are driven by the maximum measured NO₂ GLCs at each site and are considered highly conservative as it assumes that the monitored and predicted maximum concentrations occur at the same time.

CSBP's normal operations are predicted to contribute less than 1% to the cumulative annual average NO₂ GLC at the Hope Valley and North Rockingham sites and predicted increases associated with the expansion project are minimal. At Wells Park, the modelled sources are also predicted to contribute less than 1% to the cumulative long-term NH₃ average and the expansion project is not expected to impact on the ambient concentration.

Assessment of the impact of increased NO_x emissions on photochemical smog levels in the Perth airshed indicates that the proposed expansion project is conservatively expected to result in an increase of 0.26% to the total Perth airshed emissions of NO_x based on the 2008-2009 NPI data. While this increase is considered to be too small to be meaningfully considered within a complex photochemistry model, it is qualitatively expected to result in small additional quenching of ozone in the Perth airshed. The proposal is also expected to result in a very small reduction in the ROC- NO_x ratio which may also contribute to a very small reduction in the ozone formation potential of the Perth airshed.

A conservative approach has been adopted throughout the modelling assessment, including definition of the emissions for each of the modelled sources, set-up of the air dispersion models, calculation of NO_2 concentrations from predicted NO_x concentrations, assessment of the cumulative impacts of the expansion project and assessment of the impacts under startup and shutdown conditions.



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9 Limitations

ENVIRON Australia prepared this report in accordance with the scope of work as outlined in our proposal to CSBP Limited dated 26 February 2010 and in accordance with our understanding and interpretation of current regulatory standards.

Site conditions may change over time. This report is based on conditions encountered at the site at the time of the report and ENVIRON disclaims responsibility for any changes that may have occurred after this time.

The conclusions presented in this report represent ENVIRON's professional judgement based on information made available during the course of this assignment and are true and correct to the best of ENVIRON's knowledge as at the date of the assessment.

ENVIRON did not independently verify all of the written or oral information provided to ENVIRON during the course of this investigation. While ENVIRON has no reason to doubt the accuracy of the information provided to it, the report is complete and accurate only to the extent that the information provided to ENVIRON was itself complete and accurate.

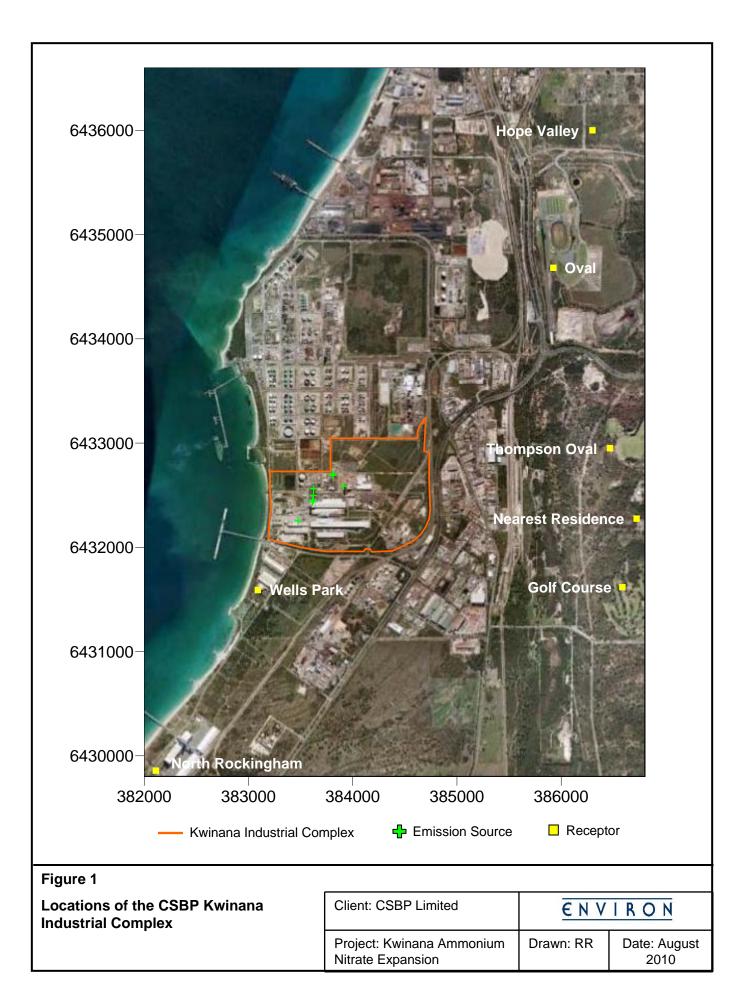
This report does not purport to give legal advice. This advice can only be given by qualified legal advisors.

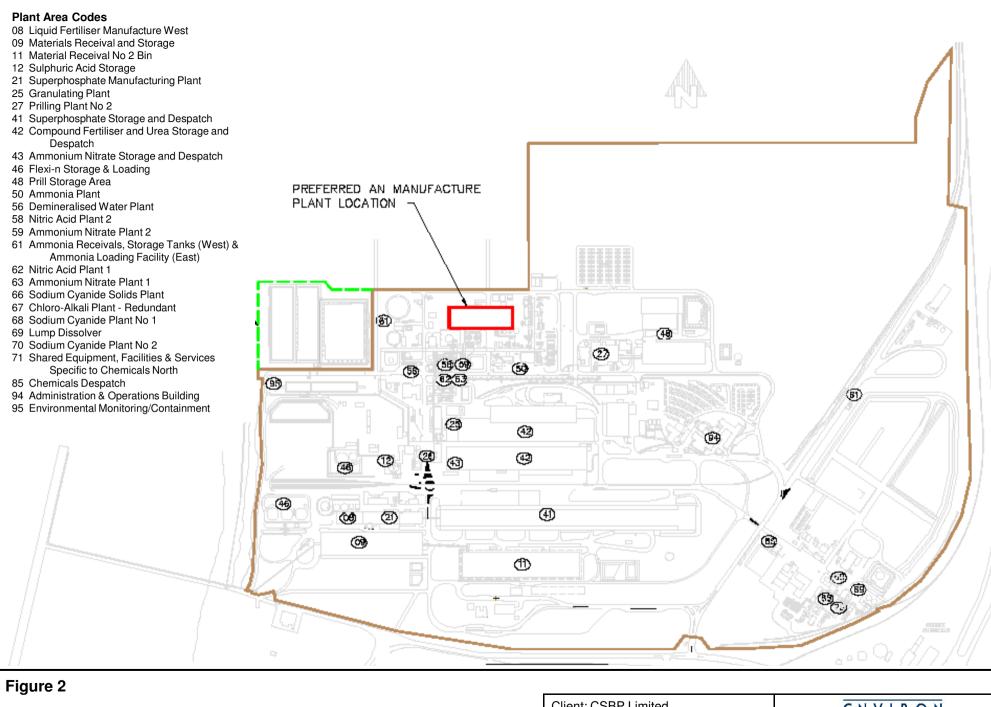
9.1 User Reliance

This report has been prepared exclusively for CSBP Limited and may not be relied upon by any other person or entity without ENVIRON's express written permission.



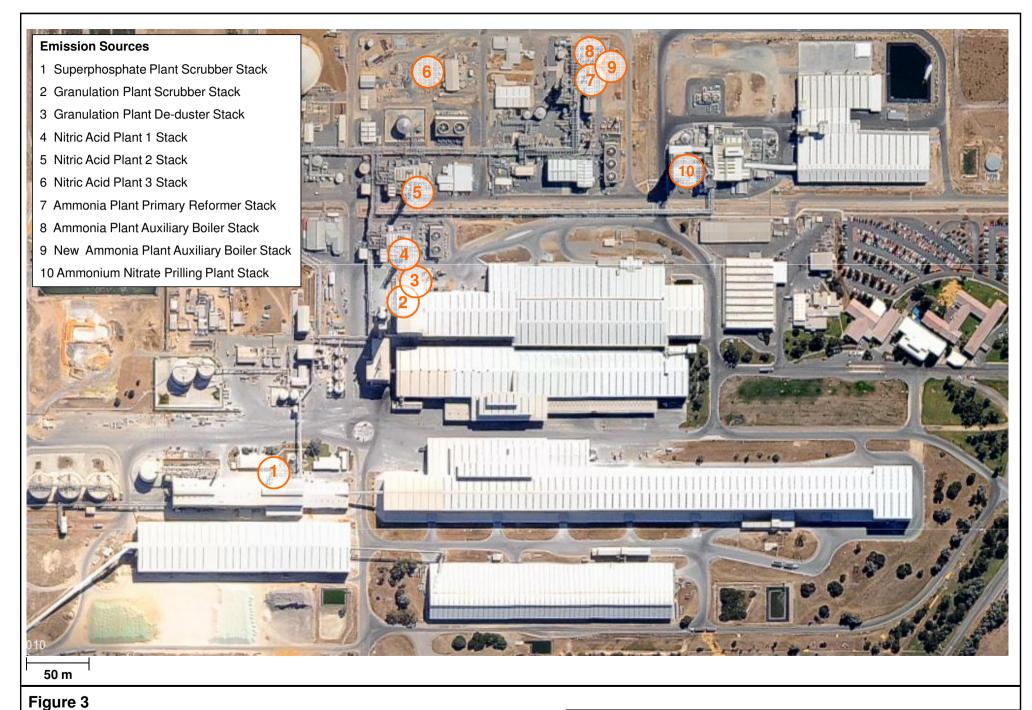
Figures





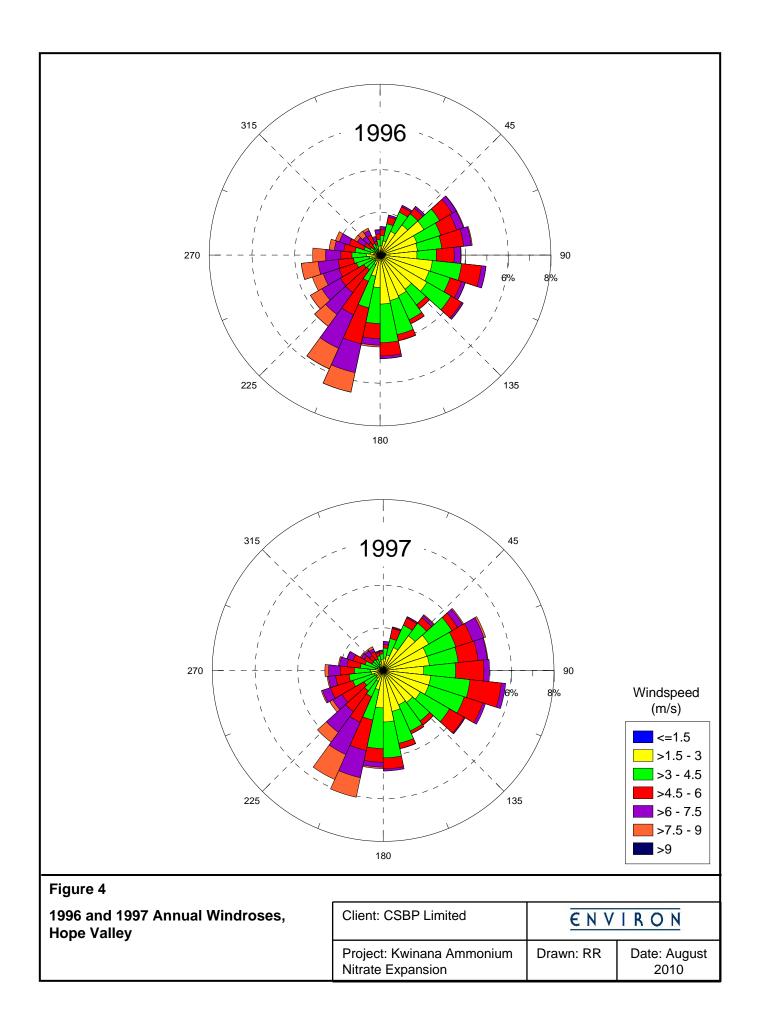
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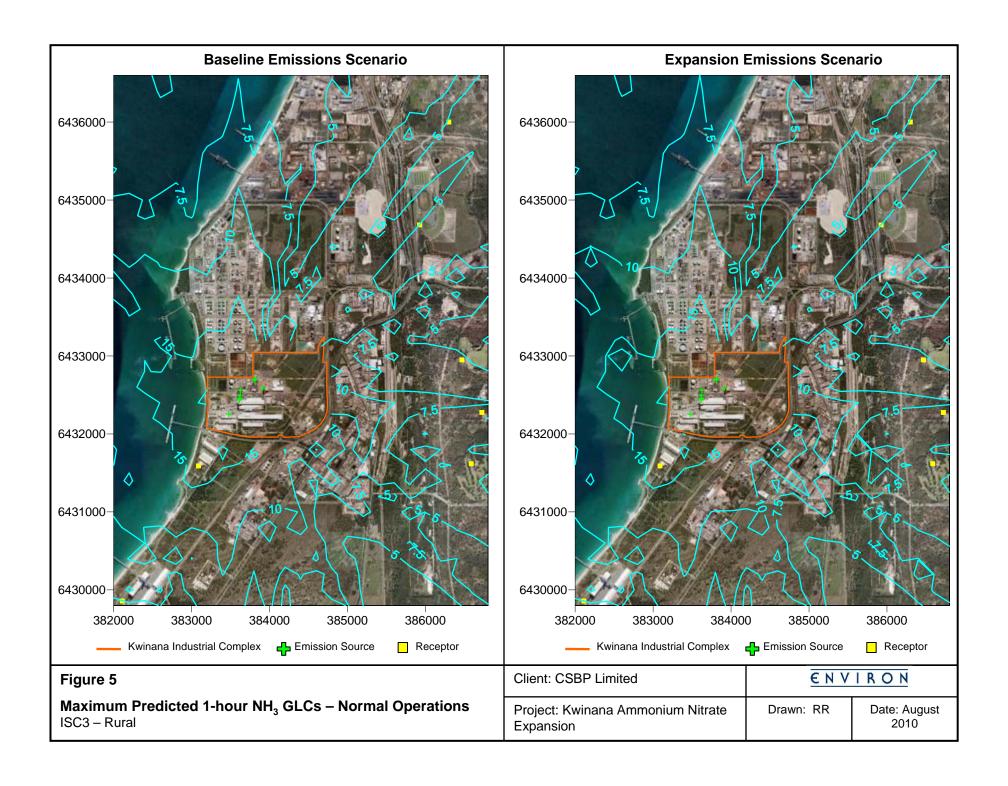
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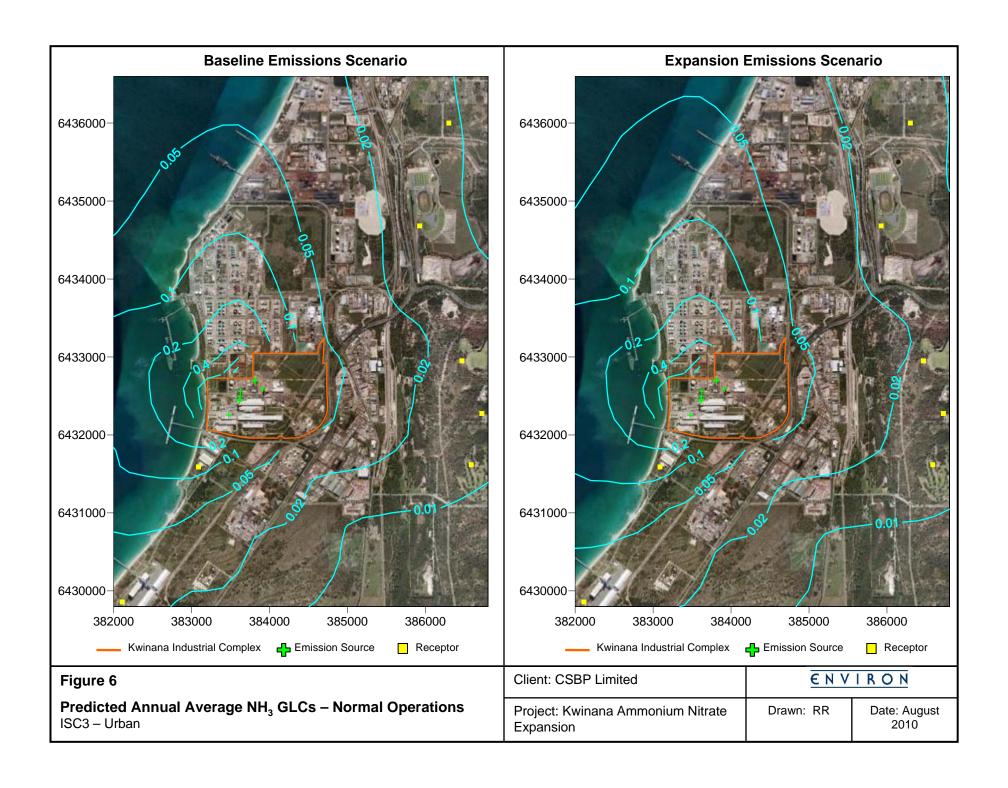


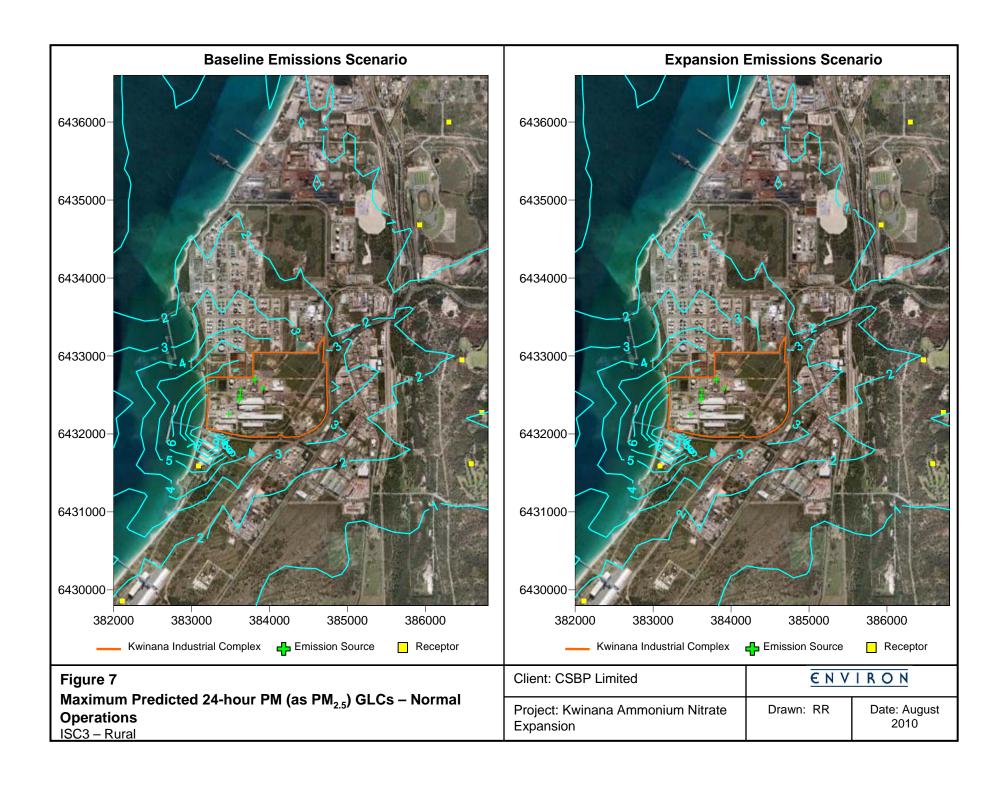
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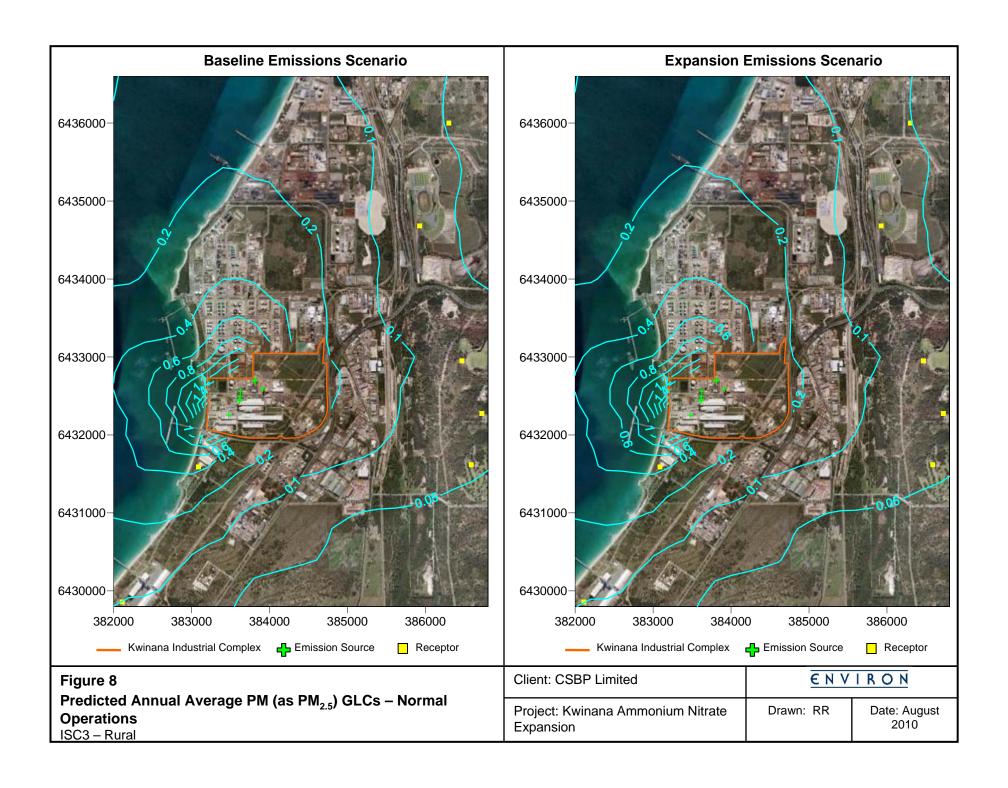
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Project: Kwinana Ammonium Nitrate Expansion	Drawn: RR	Date: August 2010	

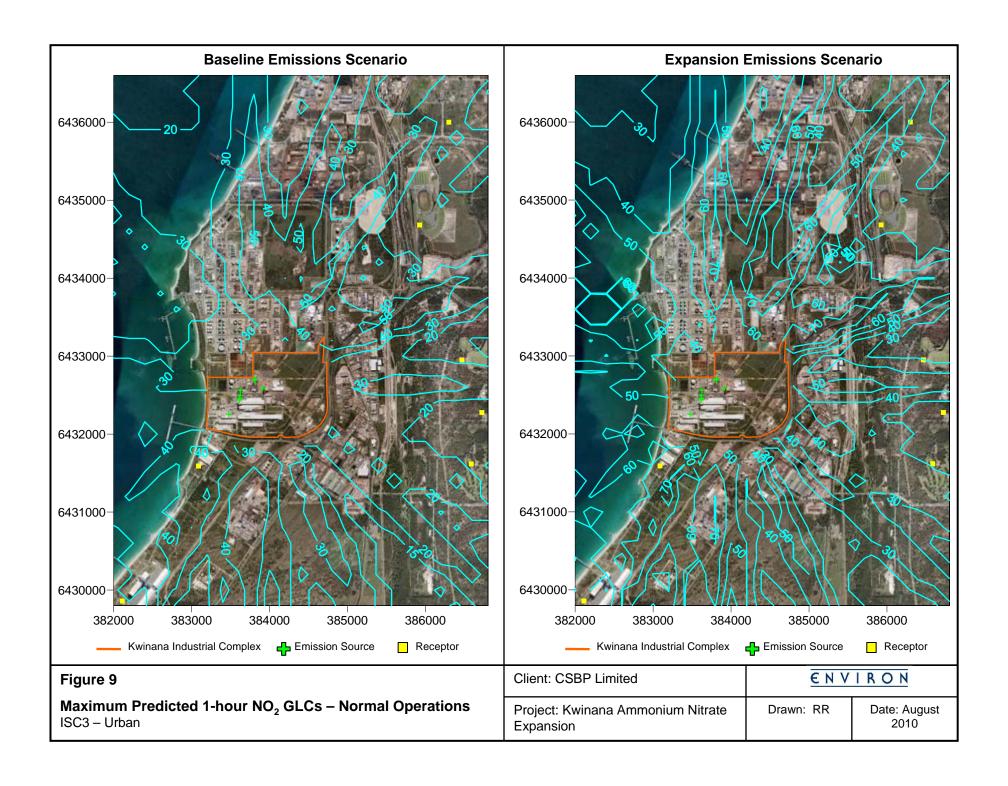


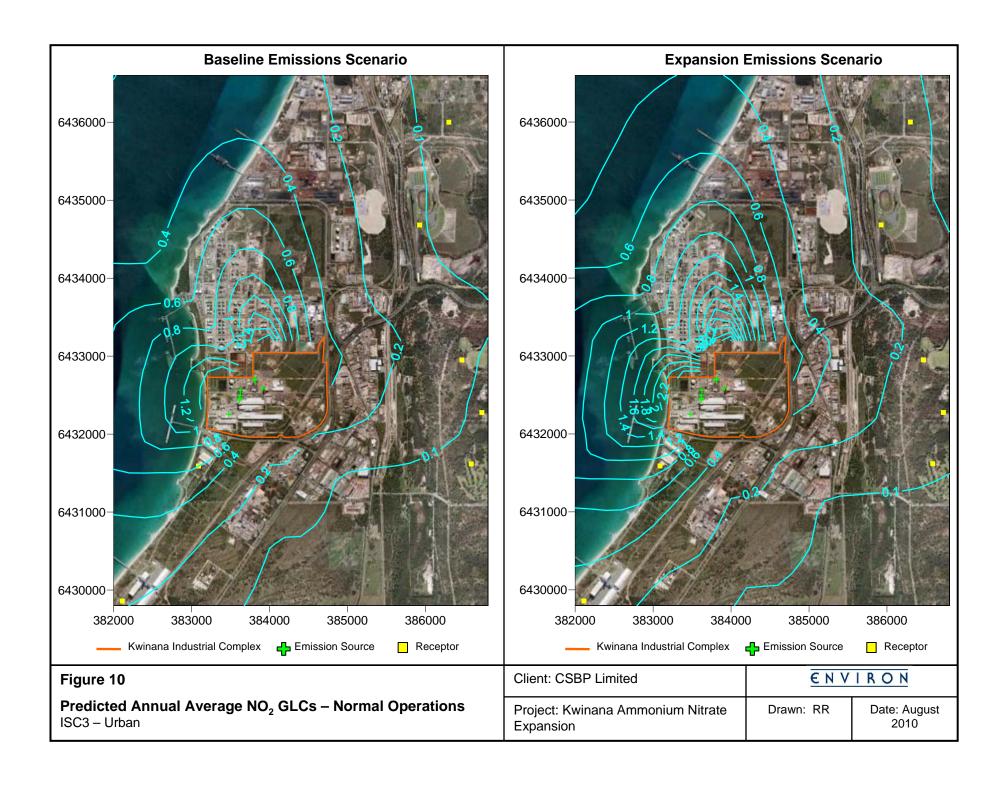


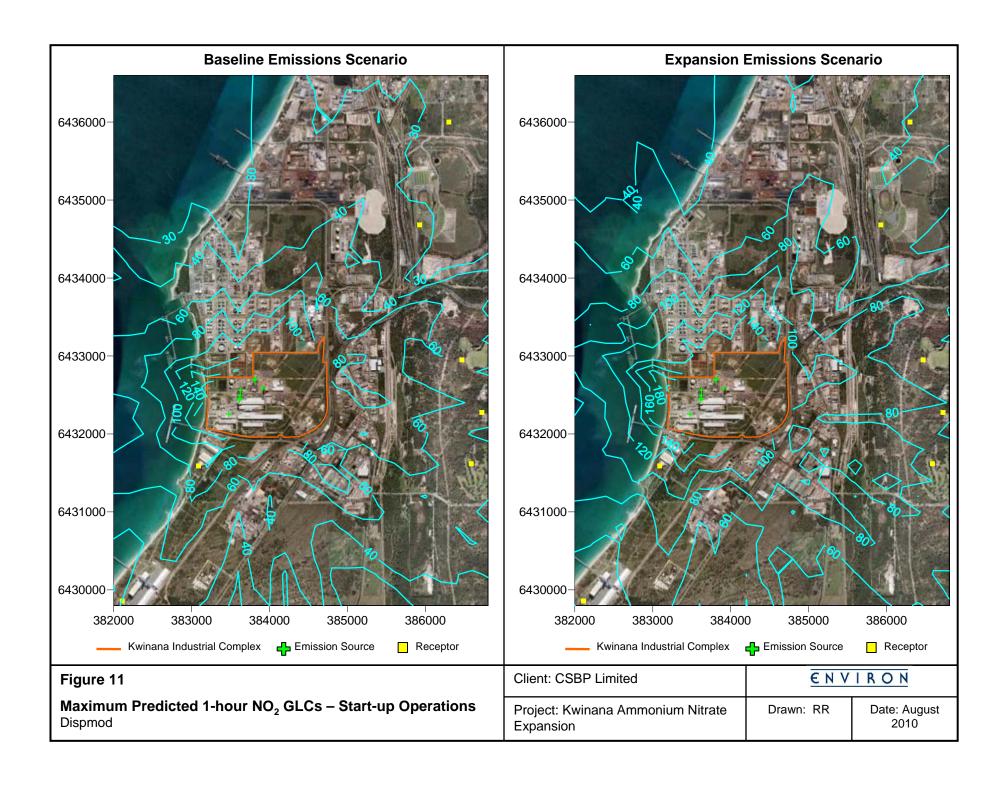


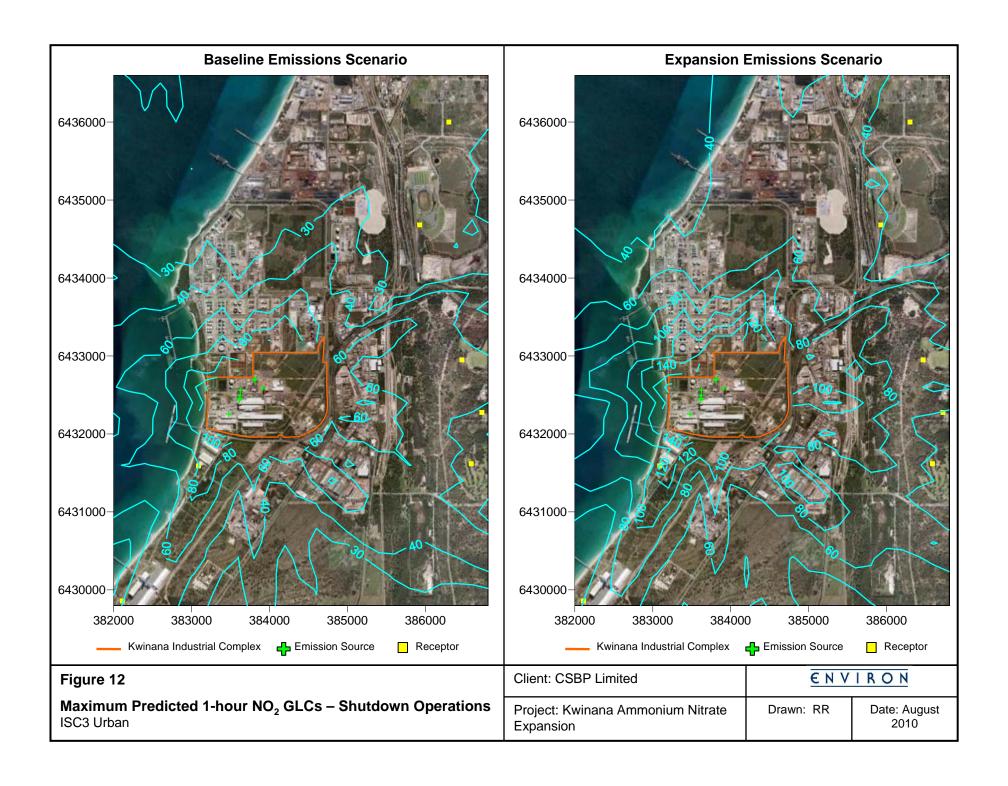












Appendix A Dispmod Input Files

Control File

```
CSBP Kwinana Ammonium Nitrate Expansion Air Dispersion Modelling -
Expansion Case 11/7/10 Rerun
  382000. 6429800. 0200. 25 35 0.2833 -32.0 181.7 360.0 3.0 .083 .047
0.25
 01011996 31121996 0000 2400 3 1 77 1.9
 14 0.00 0350. 0500. 0700. 1000. 0
  1 1 1 1 1 1 1 1 1 1 1 1 1 1
       3 4 5 6 7 8 9 10 11 12 13 14
  1
  Ω
           ! NUMBER OF STACKS THAT ARE NOT BEING USED
SMP SCRUBBER
              37.4 2.50 383476 6432254 1.00 0. 312
                                           0. 430
GRAN SCRUBBER 43.1 1.83 383615 6432437 1.00
GRAN DEDUSTER 36.8 1.58 383620 6432451 1.00
                                            0.430
NAP1
              63.8 1.10 383624 6432497 1.00
                                            0.460
NAP1 SHUTDOWN 63.8 1.10 383624 6432497 1.00
                                            0.460
              30.0 2.13 383811 6432690 1.00
AP REFORM
                                            0.640
AP AUX BOILER 30.0 1.20 383812 6432704 1.00
                                            0.640
NEW AUX BOIL
              30.0 1.20 383824 6432697 1.00
                                            0.655
              70.7 1.10 383626 6432564 1.00
                                            0.456
NAP2
NAP2 START UP 70.7 1.10 383626 6432564 1.00
                                            0.456
NAP2 SHUTDOWN 70.7 1.10 383626 6432564 1.00
                                            0.456
NAP3
              70.7 1.10 383633 6432672 1.00
                                            0.465
NAP3 SHUTDOWN 70.7 1.10 383633 6432672 1.00
                                           0.465
PRILL PLANT 2 65.0 1.72 383913 6432587 1.00
                                           0.728
```

Emissions File - Non-statistical Mode

CSBP Kwinana Ammonium Nitrate Expansion Air Dispersion Modelling - Expansion Case 11/7/10 Rerun

Name	Q	V	Rho	Nd	Nh Int
SMP SCRUBBER	.001	27.9	1.126		1
GRAN SCRUBBER	.001	18.7	1.074		1
GRAN DEDUSTER	.001	24.0	1.129		1
NAP1	.001	39.5	0.939		1
NAP1 SHUTDOWN	.001	39.5	1.129		1
AP REFORM	.001	48.9	0.774		1
AP AUX BOILER	.001	6.5	0.802		1
NEW AUX BOIL	.001	9.7	0.802		1
NAP2	.001	39.5	0.939		1
NAP2 START UP	.001	21.2	1.129		1
NAP2 SHUTDOWN	.001	39.5	1.129		1
NAP3	.001	39.5	0.939		1
NAP3 SHUTDOWN	.001	39.5	1.129		1
PRILL PLANT 2	.001	48.1	1.129		1

Emissions File - Statistical Mode

Industry No. 1 No. cases

AS110489

```
CSBP - Probabilistic NOx Assessment - Expansion DM columns are Q (kg/s), V(m^{**}3/s), rho(kg/m^{**}3)
No. industries 4
```

3 No. stacks 1

Case 1	L	Typica	al	.00341	probab 39	oili .5	ity 0.96 .932	5000	
Case 2 NAP1	2	Peak		.00427	probab 39	oili .5	ity 0.02 .932	2000	
Case 3	3	Licend	ce	.01166	probak 39	oili .5	ity 0.02 .932	2000	
	_						No. sta		1
Case 1 NAP2	L	Typica	al	.00341	probab 39	oili .5	ity 0.96 .932	5000 1	
Case 2 NAP2	2	Peak		.00427	probab 39	oili .5	ity 0.02 .932	2000	
							ity 0.02 .932		
Indust	cry	No.	3	No. c	ases	3	No. sta	acks	1
							ity 0.96 .932		
Case 2	2	Peak		.00427	probab 39	oili .5	ity 0.02 .932	2000	
Case 3	3	Liceno	ce	.01166	probak 39	oili .5	ity 0.02 .932	2000	
Indust	cry	No.	4	No. c	ases	1	No. sta	acks	3
Case 1 AP REF AP AUX NEW BC	l FOR K E	Other M SOILER ER		.0051 .0015 .0023	probak 7 48 9 6 9 9	oili .9 .5	ity 1.00 0.774 0.802 0.802	0000	

Dispmod Input File

```
CSBP_Exp.ctl
z.out
            ! plume spread in s.b. due to self gen turb?
У
            ! use new PDF model for TIBL fumigation?
У
Ν
            ! account for wind shear in TIBL PDF fumigation?
            ! use numerical method to calculate TIBL height
У
95.
                ! Tibl integration distance
                ! use coastal AMG file
У
kwinana_GDA94.coa
Υ
            ! use pdf for convective dispersion within TIBL & PBL?
            ! account for wind shear within the TIBL?
Ν
            ! use stability classes? - not with PDF
Ν
            ! plume centreline mode?
Ν
4
            ! option for lapse rate determination
Υ
            ! apply seasonal variation to lapse rates?
Ν
            ! use measured sigma theta?
                ! mixing into TIBL sharper than SGPHI?
```

y ! if direction meander sigma greater, use it
n ! info to screen on big timestep concs?
2 ! plume penetration: 1 ISC, 2 Manins, 3 Ausplume, 4 Aermod
(Berkowicz)
n ! include invers temp jump in pot temp lapse rate for
pentration?
y ! write all concs to disk for post-processing?
wml_0-0_96.dat
pmkwin.dat
CSBP_Exp.emi
w_veer.dat

Appendix B ISC Input File

** BREEZE ISC GIS Pro v5.1.0 - V:\Expansion Emissions SO SRCPARAM SRC13 9.800000E+00 70.7 298 Scenario\ISC_Rural_Exp\CSBP Expansion - Rural.dat 41.56443 1.1 ** Trinity Consultants SO SRCPARAM SRC14 0.000000E+00 65 303 20.70133 1.72 ** PRIME SO BUILDHGT SRC1 24.4 24.4 24.4 24.4 24.4 24.4 SO BUILDHGT SRC1 24.4 24.4 24.4 24.4 24.4 24.4 **CO STARTING** SO BUILDHGT SRC1 24.4 24.4 24.4 24.4 24.4 24.4 SO BUILDHGT SRC1 24.4 24.4 24.4 24.4 24.4 24.4 CO TITLEONE CSBP Kwinana Ammonium Nitrate SO BUILDHGT SRC1 24.4 24.4 24.4 24.4 24.4 24.4 Expansion Air Dispersion Modelling SO BUILDHGT SRC1 24.4 24.4 24.4 24.4 24.4 24.4 CO TITLETWO Rural Landuse Selected - Expansion **Emissions Scenario** SO BUILDWID SRC1 136.65 134.74 128.74 118.83 CO MODELOPT DFAULT CONC RURAL 105.31 88.59 CO AVERTIME 1 ANNUAL SO BUILDWID SRC1 69.18 47.66 24.7 47.66 69.18 CO POLLUTID NOX_SHUT 88.59 CO TERRHGTS FLAT SO BUILDWID SRC1 105.31 118.83 128.74 134.74 CO RUNORNOT RUN 136.65 134.4 SO BUILDWID SRC1 136.65 134.74 128.74 118.83 CO FINISHED 105.31 88.59 SO BUILDWID SRC1 69.18 47.66 24.7 47.66 69.18 SO STARTING SO ELEVUNIT METERS 88.59 SO LOCATION SRC1 POINT 383476.2 6432253.8 0 SO BUILDWID SRC1 105.31 118.83 128.74 134.74 ** SRCDESCR Superphosphate Plant Scrubber Stack 136.65 134.4 SO LOCATION SRC2 POINT 383614.6 6432436.5 0 SO BUILDLEN SRC1 47.66 69.18 88.59 105.31 SRCDESCR Granulation Plant Scrubber Stack 118.83 128.74 SO LOCATION SRC3 POINT 383620.0 6432451.5 0 SO BUILDLEN SRC1 134.74 136.65 134.4 136.65 ** SRCDESCR Granulation Plant De-Duster Stack 134.74 128.74 SO BUILDLEN SRC1 118.83 105.31 88.59 69.18 SO LOCATION SRC4 POINT 383624.0 6432497.0 0 * SRCDESCR Nitric Acid Plant 1 47.66 24.7 SO LOCATION SRC5 POINT 383624.0 6432497.0 0 SO BUILDLEN SRC1 47.66 69.18 88.59 105.31 ** SRCDESCR Nitric Acid Plant 1 Shutdown 118.83 128.74 SO LOCATION SRC6 POINT 383810.8 6432690.2 0 SO BUILDLEN SRC1 134.74 136.65 134.4 136.65 ** SRCDESCR Ammonia Plant Primary Reformer Stack 134.74 128.74 SO LOCATION SRC7 POINT 383812.0 6432704.2 0 SO BUILDLEN SRC1 118.83 105.31 88.59 69.18 * SRCDESCR Ammonia Plant Auxiliary Boiler Stack 47.66 24.7 SO XBADJ SO LOCATION SRC8 POINT 383824.2 6432697.4 0 SRC1 -43.65 -59.48 -73.5 -85.29 -94.48 ** SRCDESCR New Auxiliary Boiler -100.81 SO LOCATION SRC9 POINT 383625.7 6432563.6 0 SO XBADJ SRC1 -104.07 -104.17 -101.1 -99.25 -94.39 -86.66 ** SRCDESCR NAP2 SO LOCATION SRC10 POINT 383625.7 6432563.6 0 SO XBADJ SRC1 -76.29 -63.61 -48.99 -32.89 -15.78 ** SRCDESCR NAP2 Start-up SO LOCATION SRC11 POINT 383625.7 6432563.6 0 SO XBADJ SRC1 -4.01 -9.7 -15.09 -20.03 -24.35 -** SRCDESCR NAP2 Shutdown 27.94 SO LOCATION SRC12 POINT 383632.5 6432672.4 0 SO XBADJ SRC1 -30.68 -32.48 -33.3 -37.4 -40.36 -** SRCDESCR NAP3 42.09 SO LOCATION SRC13 POINT 383632.5 6432672.4 0 SO XBADJ SRC1 -42.54 -41.7 -39.6 -36.29 -31.88 -** SRCDESCR NAP3 Shutdown 26.5 SO LOCATION SRC14 POINT 383913.3 6432586.5 0 SO YBADJ SRC1 30.93 27.02 22.28 16.87 10.95 ** SRCDESCR Prilling Plant 2 Debottlenecked 4.7 SO SRCPARAM SRC1 0.000000E+00 37.4 315 SO YBADJ SRC1 -1.7 -8.05 -14.15 -19.82 -24.89 -5.683741 2.5 29.2 SO SRCPARAM SRC2 0.000000E+00 43.1 330 SO YBADJ SRC1 -32.63 -35.06 -36.43 -36.7 -35.84 7.109671 1.83 -33.9SO YBADJ SO SRCPARAM SRC3 0.000000E+00 36.8 307 SRC1 -30.93 -27.02 -22.28 -16.87 -10.95 12.24072 1.58 -4.7 SO SRCPARAM SRC4 0.000000E+00 63.8 378 SO YBADJ SRC1 1.7 8.05 14.15 19.82 24.89 29.2 SO YBADJ SRC1 32.63 35.06 36.43 36.7 35.84 41.56443 1.1 SO SRCPARAM SRC5 1.519000E+01 63.8 298 33.9 41.56443 1.1 SO BUILDHGT SRC2 33.5 65.3 65.3 65.3 65.3 65.3 SO SRCPARAM SRC6 5.170000E+00 30 458 SO BUILDHGT SRC2 65.3 33.5 33.5 33.5 33.5 13.72334 2.13 SO BUILDHGT SRC2 33.5 33.5 33.5 33.5 33.5 SO SRCPARAM SRC7 1.590000E+00 30 443 SO BUILDHGT SRC2 33.5 65.3 65.3 65.3 65.3 65.3 5.747261 1.2 SO BUILDHGT SRC2 65.3 33.5 33.5 33.5 33.5 SO SRCPARAM SRC8 2.390000E+00 30 443 SO BUILDHGT SRC2 33.5 33.5 33.5 33.5 33.5 SO BUILDWID SRC2 50.74 16.54 16.6 16.54 16.54 8.576681 1.2 SO SRCPARAM SRC9 0.000000E+00 70.7 378 16.6 SO BUILDWID SRC2 16.54 51.87 48.5 51.98 53.89 SO SRCPARAM SRC10 0.000000E+00 70.7 306 54.15 22.308 1.1 SO BUILDWID SRC2 52.77 49.79 45.29 39.42 55.53 SO SRCPARAM SRC11 9.800000E+00 70.7 298 SO BUILDWID SRC2 50.74 16.54 16.6 16.54 16.54 41.56443 1.1 SO SRCPARAM SRC12 0.000000E+00 70.7 378 16.6 SO BUILDWID SRC2 16.54 51.87 48.5 51.98 53.89 41.56443 1.1 54.15

SO BUILDWID SRC2 52.77 49.79 45.29 39.42 55.53
49.7 SO BUILDLEN SRC2 53.34 16.54 16.6 16.54 16.54
16.6 SO BUILDLEN SRC2 16.54 32.35 24.8 32.81 39.82
45.63 SO BUILDLEN SRC2 50.04 52.94 54.23 53.87 51.87
48.5 SO BUILDLEN SRC2 53.34 16.54 16.6 16.54 16.54
16.6 SO BUILDLEN SRC2 16.54 32.35 24.8 32.81 39.82
45.63 SO BUILDLEN SRC2 50.04 52.94 54.23 53.87 51.87
48.5 SO XBADJ SRC2 -36.37 -39.02 -40.76 -41.45 -41.17 -39.91
-39.91 SO XBADJ SRC2 -37.64 -11.33 -5.7 -8.03 -10.11 - 11.89
SO XBADJ SRC2 -13.3 -14.31 -14.89 -15.01 -14.68 -13.9
SO XBADJ SRC2 -16.97 22.47 24.15 24.91 24.63 23.31
SO XBADJ SRC2 21.1 -21.03 -19.1 -24.78 -29.71 - 33.74
SO XBADJ SRC2 -36.74 -38.63 -39.34 -38.86 -37.19 -34.6
SO YBADJ SRC2 0.59 12.54 7.01 1.27 -4.51 -10.15 SO YBADJ SRC2 -15.49 -11.26 -10.35 -9.02 -7.42 -
5.59 SO YBADJ SRC2 -3.59 -1.48 0.67 2.8 -6.74 -5.75
SO YBADJ SRC2 -0.59 -12.54 -7.01 -1.27 4.51 10.15
SO YBADJ SRC2 15.49 11.26 10.35 9.02 7.42 5.59 SO YBADJ SRC2 3.59 1.48 -0.67 -2.8 6.74 5.75
SO BUILDHGT SRC3 33.5 65.3 65.3 65.3 65.3 33.5
SO BUILDHGT SRC3 33.5 33.5 33.5 33.5 33.5 SO BUILDHGT SRC3 33.5 33.5 33.5 33.5 33.5 33.5
SO BUILDHGT SRC3 33.5 33.5 33.5 33.5 33.5
SO BUILDHGT SRC3 33.5 33.5 33.5 33.5 33.5
SO BUILDHGT SRC3 33.5 33.5 33.5 33.5 33.5
SO BUILDWID SRC3 50.74 16.54 16.6 16.54 16.54
54.23 SO BUILDWID SRC3 53.87 51.87 48.5 51.98 53.89
54.15 SO BUILDWID SRC3 52.77 49.79 45.29 39.42 55.53
49.7 SO BUILDWID SRC3 50.74 39.82 45.63 50.04 52.94
54.23 SO BUILDWID SRC3 53.87 51.87 48.5 51.98 53.89
54.15 SO BUILDWID SRC3 52.77 49.79 45.29 39.42 55.53
49.7 SO BUILDLEN SRC3 53.34 16.54 16.6 16.54 16.54
45.29 SO BUILDLEN SRC3 39.42 32.35 24.8 32.81 39.82
45.63 SO BUILDLEN SRC3 50.04 52.94 54.23 53.87 51.87
48.5 SO BUILDLEN SRC3 53.34 53.89 54.15 52.77 49.79
45.29 SO BUILDLEN SRC3 39.42 32.35 24.8 32.81 39.82
45.63 SO BUILDLEN SRC3 50.04 52.94 54.23 53.87 51.87
48.5 SO XBADJ SRC3 -52.08 -54.96 -56.45 -56.41 -54.94
-34.15 SO XBADJ SRC3 -27.11 -19.25 -11.1 -10.74 -10.05
-9.06
SO XBADJ SRC3 -7.8 -6.29 -4.6 -2.76 -0.84 1.1 SO XBADJ SRC3 -1.26 -3.58 -5.8 -7.83 -9.63 -11.14
SO XBADJ SRC3 -12.31 -13.1 -13.7 -22.07 -29.77 -
36.56

SO XBADJ	SRC3 -42.25 -46.65 -49.63 -51.11 -51.03
-49.6 SO YBADJ	SRC3 3.3 12.49 4.19 -4.23 -12.53 -22.52
SO YBADJ	SRC3 -24.17 -25.09 -25.35 -24.73 -23.36
-21.28	
SO YBADJ	SRC3 -18.55 -15.26 -11.51 -7.4 -14.66 -
11.15	0000 00000 1075 1700 0010 0050
SO YBADJ SO YBADJ	SRC3 -3.3 9.86 13.75 17.23 20.18 22.52 SRC3 24.17 25.09 25.35 24.73 23.36
21.28	3KG3 24.17 25.09 25.35 24.73 25.30
SO YBADJ	SRC3 18.55 15.26 11.51 7.4 14.66
11.15	
	T SRC4 65.3 65.3 65.3 19.7 19.7 19.7
	T SRC4 19.7 19.5 19.5 23.2 23.2 23.2
SO BUILDHG	
	T SRC4 33.5 33.5 33.5 19.7 19.7 19.7 T SRC4 19.7 19.5 19.5 23.2 23.2 23.2
	T SRC4 23.2 23.2 33.5 33.5 33.5 33.5
	D SRC4 16.54 16.54 16.56 40.71 44.52
46.98	
	O SRC4 48.01 26.31 28.2 100.16 147.68
190.7	2 2024 227 24 252 25 45 22 22 42
55.53 49.7	O SRC4 227.94 258.25 45.29 39.42
	O SRC4 50.74 39.82 45.63 40.71 44.52
46.98	
SO BUILDWIE	O SRC4 48.01 26.31 28.2 100.16 147.68
190.7	
	D SRC4 227.94 258.25 45.29 39.42
55.53 49.7	N SRC4 16.54 16.54 16.6 44.52 40.71
35.67	1 31(04 10:34 10:34 10:0 44:32 40:71
	N SRC4 29.54 56.31 60.6 300.39 295.06
280.76	
	N SRC4 257.93 227.27 54.23 53.87
51.87 48.5	U CDC4 53 34 53 90 54 45 44 53 40 74
35.67	N SRC4 53.34 53.89 54.15 44.52 40.71
	N SRC4 29.54 56.31 60.6 300.39 295.06
280.76	
	N SRC4 257.93 227.27 54.23 53.87
51.87 48.5	0004 0750 0000 0705 707 7540
SO XBADJ -69.85	SRC4 -97.58 -99.08 -97.85 -78.7 -75.42
SO XBADJ	SRC4 -62.16 -48.56 -54.0 16.66 24.11
30.83	51.6 1 52.16 16.66 61.6 16.66 21.11
SO XBADJ	SRC4 36.62 41.29 32.81 38.63 43.27
46.6	
SO XBADJ	SRC4 44.24 40.54 35.61 34.18 34.71
34.19 SO XBADJ	SRC4 32.62 -7.75 -6.6 -317.05 -319.17 -
311.6	01.04 02.02 7.70 0.0 017.00 010.17
SO XBADJ	SRC4 -294.55 -268.56 -87.04 -92.49 -
95.14 -95.1	
SO YBADJ	SRC4 16.44 0.68 -15.1 -2.98 -12.73 -
22.1 SO YBADJ	SRC4 -30.8 14.37 3.7 -41.93 -12.28
17.74	3RC4 -30.6 14.37 3.7 -41.93 -12.26
SO YBADJ	SRC4 47.23 75.27 -37.72 -26.72 -26.5 -
15.15	
SO YBADJ	SRC4 0.66 21.66 33.04 2.98 12.73 22.1
SO YBADJ	SRC4 30.8 -14.37 -3.7 41.93 12.28 -
17.74	CDC4 47.00 75.07 27.70 26.70 26.5
SO YBADJ 15.15	SRC4 -47.23 -75.27 37.72 26.72 26.5
	T SRC5 65.3 65.3 65.3 19.7 19.7 19.7
SO BUILDHG	T SRC5 19.7 19.5 19.5 23.2 23.2 23.2
	T SRC5 23.2 23.2 33.5 33.5 33.5 33.5
	T SRC5 33.5 33.5 33.5 19.7 19.7 19.7
	T SRC5 19.7 19.5 19.5 23.2 23.2 23.2 T SRC5 23.2 23.2 33.5 33.5 33.5 33.5
	D SRC5 16.54 16.54 16.56 40.71 44.52
46.98	2 10.01 10.00 10.11 11.02

SO BUILDWID SRC5 48.01 26.31 28.2 100.16 147.68	SO BUILDLEN SRC6 81.58 95.23 18.04 17.03 15.5
190.7	85.0 SO XBADJ SRC6 -42.93 -41.95 -46.16 -47.57 -47.53
SO BUILDWID SRC5 227.94 258.25 45.29 39.42 55.53 49.7	-46.05
SO BUILDWID SRC5 50.74 39.82 45.63 40.71 44.52	SO XBADJ SRC6 -43.17 -38.98 -33.6 -23.63 -26.93
46.98	-29.42
SO BUILDWID SRC5 48.01 26.31 28.2 100.16 147.68	SO XBADJ SRC6 -31.02 -31.67 22.4 25.43 27.69
190.7	29.1
SO BUILDWID SRC5 227.94 258.25 45.29 39.42 55.53 49.7	SO XBADJ SRC6 27.42 24.92 27.31 28.41 28.65 28.01
SO BUILDLEN SRC5 16.54 16.54 16.6 44.52 40.71	SO XBADJ SRC6 25.45 24.23 21.2 -4.17 -20.41 -
35.67	36.03
SO BUILDLEN SRC5 29.54 56.31 60.6 300.39 295.06	SO XBADJ SRC6 -50.56 -63.55 -40.44 -42.46 -43.19
280.76	-114.1
SO BUILDLEN SRC5 257.93 227.27 54.23 53.87 51.87 48.5	SO YBADJ SRC6 -6.96 -12.97 10.43 3.89 -2.76 - 9.34
SO BUILDLEN SRC5 53.34 53.89 54.15 44.52 40.71	SO YBADJ SRC6 -11.31 -16.23 -20.62 -36.39 -37.53
35.67	-37.52
SO BUILDLEN SRC5 29.54 56.31 60.6 300.39 295.06	SO YBADJ SRC6 -36.38 -34.13 -17.28 -11.56 -5.49
280.76	-16.6
SO BUILDLEN SRC5 257.93 227.27 54.23 53.87 51.87 48.5	SO YBADJ SRC6 6.96 12.97 -10.43 -3.89 2.76 9.34 SO YBADJ SRC6 11.31 16.23 20.63 36.39 37.53
SO XBADJ SRC5 -97.58 -99.08 -97.85 -78.7 -75.42	37.52
-69.85	SO YBADJ SRC6 36.38 34.13 17.28 11.56 5.49
SO XBADJ SRC5 -62.16 -48.56 -54.0 16.66 24.11	16.6
30.83	SO BUILDHGT SRC7 23.5 18.0 18.0 18.0 18.0 18.0
SO XBADJ SRC5 36.62 41.29 32.81 38.63 43.27 46.6	SO BUILDHGT SRC7 12.0 12.0 12.0 12.0 12.0 12.0 SO BUILDHGT SRC7 12.0 12.0 0.0 10.0 12.0 12.0
SO XBADJ SRC5 44.24 40.54 35.61 34.18 34.71	SO BUILDHGT SRC7 12.0 18.0 18.0 18.0 18.0 18.0
34.19	SO BUILDHGT SRC7 12.0 12.0 12.0 12.0 12.0 12.0
SO XBADJ SRC5 32.62 -7.75 -6.6 -317.05 -319.17 -	SO BUILDHGT SRC7 12.0 12.0 0.0 10.0 23.5 18.0
311.6	SO BUILDWID SRC7 14.61 45.79 18.04 18.88 19.15
SO XBADJ SRC5 -294.55 -268.56 -87.04 -92.49 - 95.14 -95.1	25.49 SO BUILDWID SRC7 113.51 117.59 118.1 117.59
SO YBADJ SRC5 16.44 0.68 -15.1 -2.98 -12.73 -	113.51 105.98
22.1	SO BUILDWID SRC7 95.23 81.58 0.0 125.2 37.43
SO YBADJ SRC5 -30.8 14.37 3.7 -41.93 -12.28	28.8
17.74	SO BUILDWID SRC7 27.8 46.21 18.1 21.17 23.66
SO YBADJ SRC5 47.23 75.27 -37.72 -26.72 -26.5 - 15.15	25.49 SO BUILDWID SRC7 113.51 117.59 118.1 117.59
SO YBADJ SRC5 0.66 21.66 33.04 2.98 12.73 22.1	113.51 105.98
SO YBADJ SRC5 30.8 -14.37 -3.7 41.93 12.28 -	SO BUILDWID SRC7 95.23 81.58 0.0 125.2 14.61
17.74	51.6
SO YBADJ SRC5 -47.23 -75.27 37.72 26.72 26.5	SO BUILDLEN SRC7 15.5 96.8 18.84 19.15 18.88 21.04
15.15 SO BUILDHGT SRC6 23.5 23.5 18.0 18.0 18.0 18.0	SO BUILDLEN SRC7 47.35 27.8 7.4 27.8 47.35 65.46
SO BUILDHGT SRC6 18.0 18.0 12.0 12.0 12.0	SO BUILDLEN SRC7 81.58 95.23 0.0 151.12 117.59
SO BUILDHGT SRC6 12.0 12.0 23.5 23.5 23.5 18.0	118.1
SO BUILDHGT SRC6 23.5 23.5 18.0 18.0 18.0 18.0	SO BUILDLEN SRC7 117.59 27.76 27.19 25.84 23.77
SO BUILDHGT SRC6 18.0 18.0 18.0 12.0 12.0 12.0 SO BUILDHGT SRC6 13.0 13.0 13.5 13.5 13.5 18.0	21.04 SO DUIL DI ENI SDC7 47.35 27.0 7.4 27.0 47.35 65.46
SO BUILDHGT SRC6 12.0 12.0 23.5 23.5 23.5 18.0 SO BUILDWID SRC6 14.85 15.5 18.04 18.88 19.15	SO BUILDLEN SRC7 47.35 27.8 7.4 27.8 47.35 65.46 SO BUILDLEN SRC7 81.58 95.23 0.0 151.12 15.5
18.84	85.0
SO BUILDWID SRC6 26.6 26.95 26.55 117.59 113.51	SO XBADJ SRC7 -56.92 -135.29 -58.88 -59.06 -
105.98	57.45 -54.09
SO BUILDWID SRC6 95.23 81.58 15.5 15.5 14.85 51.6	SO XBADJ SRC7 -56.21 -39.1 -20.8 -22.38 -23.27 - 23.46
SO BUILDWID SRC6 14.85 15.5 18.04 18.88 19.15	SO XBADJ SRC7 -22.94 -21.72 0.0 -17.36 -14.35 -
18.84	10.9
SO BUILDWID SRC6 26.6 26.95 26.55 117.59 113.51	SO XBADJ SRC7 -8.41 29.15 31.69 33.22 33.67
105.98 SO DIJUDWID SPC6 05 22 94 59 45 5 45 5 14 95	33.05 SO VEAD L SECT 8 96 11 2 12 4 5 42 24 07 42 0
SO BUILDWID SRC6 95.23 81.58 15.5 15.5 14.85 51.6	SO XBADJ SRC7 8.86 11.3 13.4 -5.42 -24.07 -42.0 SO XBADJ SRC7 -58.64 -73.51 0.0 -133.76 -56.76 -
SO BUILDLEN SRC6 15.5 17.03 18.84 19.15 18.88	128.1
18.04	SO YBADJ SRC7 -8.21 -18.48 4.47 -4.19 -12.72 -
SO BUILDLEN SRC6 17.72 14.75 12.4 27.8 47.35	17.54
65.46 SO BUILDIEN SPC6 81 58 05 23 18 04 17 03 15 5	SO YBADJ SRC7 -39.4 -44.45 -48.15 -50.39 -51.09
SO BUILDLEN SRC6 81.58 95.23 18.04 17.03 15.5 85.0	-50.25 SO YBADJ SRC7 -47.88 -44.05 0.0 -66.07 -20.39 -
SO BUILDLEN SRC6 15.5 17.03 18.84 19.15 18.88	
	6.4
18.04	SO YBADJ SRC7 -8.48 1.8 -4.5 3.05 10.47 17.54
18.04 SO BUILDLEN SRC6 17.72 14.75 12.4 27.8 47.35 65.46	



SO YBADJ SRC7 47.88 44.05 0.0 66.07 9.1 17.8	SO BUILDLEN SRC9 54.61 56.31 56.3 56.31 295.06
SO BUILDHGT SRC8 23.5 23.5 23.5 23.5 18.0 18.0	280.76
SO BUILDHGT SRC8 18.0 18.0 12.0 12.0 12.0 12.0	SO BUILDLEN SRC9 257.93 227.27 189.7 146.36
SO BUILDHGT SRC8 12.0 0.0 0.0 10.0 12.0	51.87 48.5
SO BUILDHGT SRC8 12.0 18.0 23.5 23.5 18.0 18.0 SO BUILDHGT SRC8 18.0 18.0 13.0 13.0 13.0 13.0	SO XBADJ SRC9 -163.47 -162.25 -138.12 -82.37 -
SO BUILDHGT SRC8 18.0 18.0 12.0 12.0 12.0 12.0 SO BUILDHGT SRC8 12.0 0.0 0.0 10.0 18.0	29.53 -34.15 SO XBADJ SRC9 -37.74 -40.18 -41.4 -42.23 -174.88
SO BUILDWID SRC8 14.85 16.55 17.5 17.5 19.15	-151.18
18.84	SO XBADJ SRC9 -190.66 -191.08 -186.54 -22.05 -
SO BUILDWID SRC8 26.6 26.95 118.1 117.59 113.51	15.46 -8.4
105.98	SO XBADJ SRC9 -10.86 1.6 -54.57 -16.01 -16.81 -
SO BUILDWID SRC8 95.23 0.0 0.0 0.0 128.4 28.8	17.1
SO BUILDWID SRC8 47.45 46.21 17.5 17.5 48.51	SO XBADJ SRC9 -16.87 -16.13 -14.9 -14.08 -340.36
47.17	-343.43
SO BUILDWID SRC8 44.45 40.43 118.1 117.59	SO XBADJ SRC9 -336.06 -318.48 -291.23 -255.13 -
113.51 105.98	160.44 -161.7
SO BUILDWID SRC8 95.23 0.0 0.0 0.0 128.4 51.6 SO BUILDLEN SRC8 15.5 17.03 18.04 18.51 18.88	SO YBADJ SRC9 -10.55 -37.49 -24.96 -21.95 13.04 11.73
18.04	SO YBADJ SRC9 10.08 4.94 4.9 -0.86 44.46 -17.54
SO BUILDLEN SRC8 17.72 14.75 7.4 27.8 47.35	SO YBADJ SRC9 16.91 -12.12 -40.8 -10.43 -12.02 -
65.46	13.25
SO BUILDLEN SRC8 81.58 0.0 0.0 0.0 149.23 118.1	SO YBADJ SRC9 -14.07 165.13 175.27 -13.94 -
SO BUILDLEN SRC8 117.59 27.76 18.04 18.51 34.26	13.04 -11.73
37.65	SO YBADJ SRC9 -10.08 -4.94 -4.9 0.86 75.44 40.78
SO BUILDLEN SRC8 39.89 40.92 28.8 27.8 47.35	SO YBADJ SRC9 4.89 -31.16 -66.26 -99.35 39.74
65.46	16.85
SO BUILDLEN SRC8 81.58 0.0 0.0 0.0 149.23 85.0 SO XBADJ SRC8 -52.34 -53.3 -52.63 -50.36 -62.42	SO BUILDHGT SRC10 33.5 33.5 19.7 19.5 19.5 SO BUILDHGT SRC10 19.5 19.5 19.4 19.5 30.0 30.0
-61.25	SO BUILDHGT SRC10 19.5 19.5 19.4 19.5 30.0 30.0 SO BUILDHGT SRC10 37.0 37.0 37.0 19.5 19.5 19.5
SO XBADJ SRC8 -58.22 -53.42 -33.0 -35.57 -37.06	SO BUILDHGT SRC10 19.5 19.7 19.7 19.5 19.5 19.5
-37.43	SO BUILDHGT SRC10 19.5 19.5 19.4 19.5 23.2 23.2
SO XBADJ SRC8 -36.66 0.0 0.0 0.0 -23.16 -17.7	SO BUILDHGT SRC10 23.2 23.2 23.2 23.2 33.5 33.5
SO XBADJ SRC8 -12.99 26.94 34.59 31.86 28.16	SO BUILDWID SRC10 50.74 50.53 35.67 46.15 40.02
23.61	32.48
SO XBADJ SRC8 18.34 12.51 4.2 7.78 -10.28 -	SO BUILDWID SRC10 23.95 21.05 27.0 23.44 106.06
28.03	30.0
SO XBADJ SRC8 -44.93 0.0 0.0 0.0 -126.06 -121.3	SO BUILDWID SRC10 49.82 49.82 50.0 54.61 56.31
SO YBADJ SRC8 4.98 -2.84 -10.57 -17.98 0.33 - 8.87	56.3 SO BUILDWID SRC10 56.31 350.45 336.3 46.34
SO YBADJ SRC8 -13.49 -20.99 -41.35 -45.81 -48.88	40.02 32.48
-50.46	SO BUILDWID SRC10 23.95 21.05 27.0 23.44 147.68
SO YBADJ SRC8 -50.51 0.0 0.0 0.0 -62.22 -18.6	190.7
SO YBADJ SRC8 -11.85 -11.99 10.57 17.98 9.84	SO BUILDWID SRC10 227.94 258.25 280.71 294.64
16.39	55.53 49.7
SO YBADJ SRC8 22.42 27.73 41.35 45.81 48.88	SO BUILDLEN SRC10 53.34 58.54 46.98 40.02 46.34
50.46	51.26
SO YBADJ SRC8 50.51 0.0 0.0 0.0 62.22 30.0 SO BUILDHGT SRC9 33.5 33.5 19.7 19.5 19.5 19.5	SO BUILDLEN SRC10 54.61 56.31 56.3 56.31 52.67
SO BUILDHGT SRC9 33.5 33.5 19.7 19.5 19.5 19.5 SO BUILDHGT SRC9 19.5 19.5 19.4 19.5 30.0 30.0	30.0 SO BUILDLEN SRC10 49.82 49.82 50.0 23.95 14.7
SO BUILDHGT SRC9 37.0 37.0 19.5 19.5 19.5	5.0
SO BUILDHGT SRC9 19.5 19.7 19.7 19.5 19.5 19.5	SO BUILDLEN SRC10 14.7 207.59 255.15 40.02
SO BUILDHGT SRC9 19.5 19.5 19.4 19.5 23.2 23.2	46.34 51.26
SO BUILDHGT SRC9 23.2 23.2 23.2 23.2 33.5 33.5	SO BUILDLEN SRC10 54.61 56.31 56.3 56.31 295.06
SO BUILDWID SRC9 50.74 50.53 35.67 46.15 40.02	280.76
32.48	SO BUILDLEN SRC10 257.93 227.27 189.7 146.36
SO BUILDWID SRC9 23.95 21.05 27.0 23.44 106.06	51.87 48.5
30.0	SO XBADJ SRC10 -163.47 -162.25 -138.12 -82.37 -
SO BUILDWID SRC9 49.82 49.82 50.0 54.61 56.31 56.3	29.53 -34.15 SO XBADJ SRC10 -37.74 -40.18 -41.4 -42.23 -
SO BUILDWID SRC9 56.31 350.45 336.3 46.34 40.02	174.88 -151.18
32.48	SO XBADJ SRC10 -190.66 -191.08 -186.54 -22.05 -
SO BUILDWID SRC9 23.95 21.05 27.0 23.44 147.68	15.46 -8.4
190.7	SO XBADJ SRC10 -10.86 1.6 -54.57 -16.01 -16.81 -
SO BUILDWID SRC9 227.94 258.25 280.71 294.64	17.1
55.53 49.7	SO XBADJ SRC10 -16.87 -16.13 -14.9 -14.08 -
SO BUILDLEN SRC9 53.34 58.54 46.98 40.02 46.34	340.36 -343.43 SO VEAD L SEC40 236.06 248.48 204.23 255.43
51.26 SO BUILDLEN SRC9 54.61 56.31 56.3 56.31 52.67	SO XBADJ SRC10 -336.06 -318.48 -291.23 -255.13 -160.44 -161.7
30.0	SO YBADJ SRC10 -10.55 -37.49 -24.96 -21.95
SO BUILDLEN SRC9 49.82 49.82 50.0 23.95 14.7 5.0	13.04 11.73
SO BUILDLEN SRC9 14.7 207.59 255.15 40.02 46.34	SO YBADJ SRC10 10.08 4.94 4.9 -0.86 44.46 -
51.26	17.54

SO YBADJ SRC10 16.91 -12.12 -40.8 -10.43 -12.02
-13.25
SO YBADJ SRC10 -14.07 165.13 175.27 -13.94 - 13.04 -11.73
SO YBADJ SRC10 -10.08 -4.94 -4.9 0.86 75.44 40.78
SO YBADJ SRC10 4.89 -31.16 -66.26 -99.35 39.74 16.85
SO BUILDHGT SRC11 33.5 33.5 19.7 19.5 19.5 19.5
SO BUILDHGT SRC11 19.5 19.5 19.4 19.5 30.0 30.0
SO BUILDHGT SRC11 37.0 37.0 37.0 19.5 19.5 19.5 SO BUILDHGT SRC11 19.5 19.7 19.7 19.5 19.5 19.5
SO BUILDHGT SRC11 19.5 19.5 19.4 19.5 23.2 23.2
SO BUILDHGT SRC11 23.2 23.2 23.2 23.2 33.5 33.5
SO BUILDWID SRC11 50.74 50.53 35.67 46.15 40.02 32.48
SO BUILDWID SRC11 23.95 21.05 27.0 23.44 106.06 30.0
SO BUILDWID SRC11 49.82 49.82 50.0 54.61 56.31 56.3
SO BUILDWID SRC11 56.31 350.45 336.3 46.34 40.02 32.48
SO BUILDWID SRC11 23.95 21.05 27.0 23.44 147.68 190.7
SO BUILDWID SRC11 227.94 258.25 280.71 294.64 55.53 49.7
SO BUILDLEN SRC11 53.34 58.54 46.98 40.02 46.34 51.26
SO BUILDLEN SRC11 54.61 56.31 56.3 56.31 52.67 30.0
50.0 SO BUILDLEN SRC11 49.82 49.82 50.0 23.95 14.7 5.0
SO BUILDLEN SRC11 14.7 207.59 255.15 40.02
46.34 51.26 SO BUILDLEN SRC11 54.61 56.31 56.3 56.31 295.06
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51.87 48.5 SO XBADJ SRC11 -163.47 -162.25 -138.12 -82.37 -
29.53 -34.15 SO XBADJ SRC11 -37.74 -40.18 -41.4 -42.23 -
174.88 -151.18 SO XBADJ SRC11 -190.66 -191.08 -186.54 -22.05 -
15.46 -8.4 SO XBADJ SRC11 -10.86 1.6 -54.57 -16.01 -16.81 -
17.1 SO XBADJ SRC11 -16.87 -16.13 -14.9 -14.08 -
340.36 -343.43
SO XBADJ SRC11 -336.06 -318.48 -291.23 -255.13
-160.44 -161.7 SO YBADJ SRC11 -10.55 -37.49 -24.96 -21.95
13.04 11.73
SO YBADJ SRC11 10.08 4.94 4.9 -0.86 44.46 - 17.54
SO YBADJ SRC11 16.91 -12.12 -40.8 -10.43 -12.02 -13.25
SO YBADJ SRC11 -14.07 165.13 175.27 -13.94 - 13.04 -11.73
SO YBADJ SRC11 -10.08 -4.94 -4.9 0.86 75.44 40.78
SO YBADJ SRC11 4.89 -31.16 -66.26 -99.35 39.74 16.85
SO BUILDHGT SRC12 19.5 19.5 19.5 19.5 30.0
SO BUILDHGT SRC12 30.0 37.0 37.0 37.0 37.0 19.5 SO BUILDHGT SRC12 19.5 19.5 19.5 19.5 19.5
SO BUILDHGT SRC12 19.5 19.5 19.5 19.5 19.5 19.5 SO BUILDHGT SRC12 19.5 19.5 19.5 19.5 19.5 19.5
SO BUILDHGT SRC12 19.5 19.5 19.4 19.5 19.5 19.5
SO BUILDHGT SRC12 19.5 19.5 19.5 19.5 19.5 SO BUILDWID SRC12 56.02 54.33 51.0 46.11 39.83
30.0 SOLUTION SECTE 50.02 54.35 51.0 40.11 59.85
SO BUILDWID SRC12 98.81 49.81 50.0 49.81 49.81 32.33

SO BUILDWID SRC12 39.83 46.11 51.0 54.33 56.02 SO BUILDWID SRC12 56.02 54.33 51.0 46.11 39.83 32.33 SO BUILDWID SRC12 23.85 20.61 28.0 23.22 23.85 32.33 SO BUILDWID SRC12 39.83 46.11 51.0 54.33 56.02 SO BUILDLEN SRC12 14.65 23.85 32.33 39.83 46.11 SO BUILDLEN SRC12 72.59 49.81 50.0 49.81 49.81 51.0 SO BUILDLEN SRC12 46.11 39.83 32.33 23.85 14.65 SO BUILDLEN SRC12 14.65 23.85 32.33 39.83 46.11 51.0 SO BUILDLEN SRC12 54.33 56.02 56.0 56.02 54.33 51.0 SO BUILDLEN SRC12 46.11 39.83 32.33 23.85 14.65 SO XBADJ SRC12 -10.7 -11.78 -12.5 -12.85 -12.8 -158.56 SO XBADJ SRC12 -159.51 -144.08 -147.9 -147.8 -144.05 -5.56 SO XBADJ SRC12 -4.05 -2.43 -0.73 1.0 2.69 4.3 SO XBADJ SRC12 -3.94 -12.07 -19.83 -26.98 -33.32 -38.64SO XBADJ SRC12 -42.79 -45.64 -47.1 -48.0 -47.44 -45.44 SO XBADJ SRC12 -42.06 -37.4 -31.6 -24.85 -17.34 -9.3 SO YBADJ SRC12 -19.99 -20.27 -19.94 -19.0 -17.49 18.34 SO YBADJ SRC12 27.59 31.88 10.7 -10.8 -31.98 3.66 SO YBADJ SRC12 7.07 10.26 13.14 15.62 17.63 19.1 SRC12 19.99 20.27 19.94 19.0 17.49 SO YBADJ 15.44 SO YBADJ SRC12 12.92 7.03 6.6 -0.91 -0.14 -3.66 SO YBADJ SRC12 -7.07 -10.26 -13.14 -15.62 -17.63 -191 SO BUILDHGT SRC13 19.5 19.5 19.5 19.5 19.5 30.0 SO BUILDHGT SRC13 30.0 37.0 37.0 37.0 37.0 19.5 SO BUILDHGT SRC13 19.5 19.5 19.5 19.5 19.5 SO BUILDHGT SRC13 19.5 19.5 19.5 19.5 19.5 SO BUILDHGT SRC13 19.5 19.5 19.4 19.5 19.5 19.5 SO BUILDHGT SRC13 19.5 19.5 19.5 19.5 19.5 SO BUILDWID SRC13 56.02 54.33 51.0 46.11 39.83 30.0 SO BUILDWID SRC13 98.81 49.81 50.0 49.81 49.81 32.33 SO BUILDWID SRC13 39.83 46.11 51.0 54.33 56.02 SO BUILDWID SRC13 56.02 54.33 51.0 46.11 39.83 32.33 SO BUILDWID SRC13 23.85 20.61 28.0 23.22 23.85 SO BUILDWID SRC13 39.83 46.11 51.0 54.33 56.02 56.0 SO BUILDLEN SRC13 14.65 23.85 32.33 39.83 46.11 SO BUILDLEN SRC13 72.59 49.81 50.0 49.81 49.81 51.0 SO BUILDLEN SRC13 46.11 39.83 32.33 23.85 14.65 SO BUILDLEN SRC13 14.65 23.85 32.33 39.83 46.11 51.0 SO BUILDLEN SRC13 54.33 56.02 56.0 56.02 54.33 51.0 SO BUILDLEN SRC13 46.11 39.83 32.33 23.85 14.65 5.0

SO XBADJ SRC13 -10.7 -11.78 -12.5 -12.85 -12.8 - 158.56	SO SRCGROUP NOXNORM1 SRC4 SRC6 SRC8 SRC9 SRC12
SO XBADJ SRC13 -10.7 -11.78 -12.5 -12.85 -12.8 - 158.56 SO XBADJ SRC13 -159.51 -144.08 -147.9 -147.8 - 144.05 -5.56 SO XBADJ SRC13 -4.05 -2.43 -0.73 1.0 2.69 4.3 SO XBADJ SRC13 -3.94 -12.07 -19.83 -26.98 -33.32 -38.64 SO XBADJ SRC13 -42.79 -45.64 -47.1 -48.0 -47.44 -45.44 SO XBADJ SRC13 -42.06 -37.4 -31.6 -24.85 -17.34 -9.3 SO YBADJ SRC13 -19.99 -20.27 -19.94 -19.0 -17.49 18.34 SO YBADJ SRC13 27.59 31.88 10.7 -10.8 -31.98 3.66	SO SRCGROUP NOXNORM2 SRC4 SRC6 SRC7
144.U3 -3.30 CO VRAD L CRC43 4.05 3.43 0.73 4.0 3.60 4.3	SKUS SKUS SKUIZ
SO XBADJ SRC13 -4.05 -2.45 -0.75 1.0 2.09 4.5	SDC8 SDC9 SDC10 SDC12
-38 64	SO SPCGROUP NOVSHUT SPC5 SPC6 SPC7 SPC8
SO XBAD L. SRC13 -42.70 -45.64 -47.1 -48.0 -47.44	SPC11 SPC13
-45 44	SO SECROUP ALL
SO XBAD L. SRC13 -42 06 -37 4 -31 6 -24 85 -17 34	SO SRCGROUP SCR1 SRC1
-9.3	SO SRCGROUP SCR2 SRC2
SO YBADJ SRC13 -19.99 -20.27 -19.94 -19.0 -17.49	SO SRCGROUP SCR3 SRC3
18.34	SO SRCGROUP SCR14 SRC14
SO YBADJ SRC13 27.59 31.88 10.7 -10.8 -31.98	SO FINISHED
3.66	
SO YBADJ SRC13 7.07 10.26 13.14 15.62 17.63	RE STARTING
19.1	** ONSITGRD STA
SO YBADJ SRC13 19.99 20.27 19.94 19.0 17.49	** RE GRIDCART GRD1 STA 1
SO YBADJ SRC13 12.92 7.03 6.6 -0.91 -0.14 -3.66 SO YBADJ SRC13 -7.07 -10.26 -13.14 -15.62 -17.63	** RE GRIDCART GRD1 XYINC 382000.0 25 200.0
SO YBADJ SRC13 -7.07 -10.26 -13.14 -15.62 -17.63	6429800.0 35 200.0
-19.1	** RE GRIDCART GRD1 END
SO BUILDHGT SRC14 55.0 55.0 55.0 55.0 62.0	** ONSTIGRD END
SO BUILDINGT SRC14 62.0 62.0 62.0 62.0 62.0 62.0	OFFSTRUP GRD1
SO BUILDING 1 SRC14 55.0 55.0 55.0 55.0 55.0 55.0 55.0 55.	RE DISCOART 382000.0 6429800.0
SO BUILDING! SRC14 55.0 55.0 55.0 55.0 55.0 62.0	DE DISCOART 302200.0 0429000.0
SO BUILDING! SNC!4 02.0 02.0 02.0 02.0 02.0 02.0 02.0 02.	PE DISCOART 382600.0 0429800.0
SO BUILDWID SRC14 20 34 21 26 21 53 21 15 20 13	RE DISCCART 382800.0 6429800.0
14 34	RE DISCCART 383000 0 6429800 0
SO BUILDWID SRC14 13.46 12.16 10.5 12.16 13.46	RE DISCCART 383200.0 6429800.0
14.34	RE DISCCART 383400.0 6429800.0
SO BUILDWID SRC14 19.74 20.83 21.28 21.09 20.25	RE DISCCART 383600.0 6429800.0
18.8	RE DISCCART 383800.0 6429800.0
SO BUILDWID SRC14 20.34 21.26 21.53 21.15 20.13	RE DISCCART 384000.0 6429800.0
14.34	RE DISCCART 384200.0 6429800.0
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SO BUILDLEN SRC14 13.46 12.16 10.5 12.16 13.46	RE DISCCART 386800.0 6429800.0
14.34	RE DISCCART 382000.0 6430000.0
SO BUILDLEN SRC14 21.15 20.13 18.49 16.3 13.61	RE DISCCART 382200.0 6430000.0
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SO XBADJ SRC14 -15.04 -15.51 -15.5 -16.84 -17.68	RE DISCCART 383000.0 6430000.0
-17.97	RE DISCCART 383200.0 6430000.0 RE DISCCART 383400.0 6430000.0
SO XBADJ SRC14 -17.72 -16.93 -15.63 -13.85 - 11.65 -9.1	RE DISCCART 383600.0 6430000.0
SO XBADJ SRC14 -9.04 -9.21 -9.1 -8.71 -8.06 -0.22	RE DISCCART 383800.0 6430000.0
SO XBADJ SRC14 1.59 3.34 5.0 4.68 4.22 3.63	RE DISCCART 384000.0 6430000.0
SO XBADJ SRC14 -3.43 -3.19 -2.86 -2.44 -1.95 -1.4	RE DISCCART 384200.0 6430000.0
SO YBADJ SRC14 6.68 7.05 7.21 7.15 6.87 8.46	RE DISCCART 384400.0 6430000.0
SO YBADJ SRC14 7.12 5.57 3.85 2.01 0.11 -1.79	RE DISCCART 384600.0 6430000.0
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SO YBADJ SRC14 -6.68 -7.05 -7.21 -7.15 -6.87 -	RE DISCCART 385000.0 6430000.0
8.46	RE DISCCART 385200.0 6430000.0
SO YBADJ SRC14 -7.12 -5.57 -3.85 -2.01 -0.11	RE DISCCART 385400.0 6430000.0
1.79	RE DISCCART 385600.0 6430000.0
SO YBADJ SRC14 1.16 2.36 3.48 4.5 5.38 6.1	RE DISCCART 385800.0 6430000.0
SO EMISUNIT 1.0E+06 GRAMS/SEC MICROGRAMS/M**3	RE DISCCART 386000.0 6430000.0
SO SRCGROUP PM10 SRC1 SRC2 SRC3 SRC14	RE DISCCART 386200.0 6430000.0 RE DISCCART 386400.0 6430000.0
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RE DISCCART 382200.0	6435200.0	RE DISCCART	386800.0 6435600.0
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		0430400.0		
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		6426400.0		
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		0430000.0		
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RE DISCCART 38	82800.0	6436600.0	RE DISCCART	383731.0 6431962.73
RE DISCCART 38	83000.0	6436600.0	RE DISCCART	383748.8 6431959.9
RE DISCCART 38	83200.0	6436600.0	RE DISCCART	383773.8 6431959.9
RE DISCCART 38		6436600.0		383798.8 6431959.9
RE DISCOART 38		6426600.0		383823.8 6431959.9
		0430000.0		
RE DISCCART 38		6436600.0		383848.8 6431959.9
RE DISCCART 38	84000.0	6436600.0	RE DISCCART	383873.8 6431959.9
RE DISCCART 38	84200.0	6436600.0	RE DISCCART	383898.8 6431959.9
RE DISCCART 38	84400.0	6436600.0	RE DISCOART	383923.8 6431959.9
RE DISCCART 38		6436600.0		383948.8 6431959.9
		6426600.0		
RE DISCCART 38		0430000.0		383973.8 6431959.9
RE DISCCART 38		6436600.0		383998.8 6431959.9
RE DISCCART 38				384023.8 6431959.9
RE DISCCART 38	85400.0	6436600.0	RE DISCCART	384048.8 6431959.9
RE DISCCART 38				384073.8 6431959.9
RE DISCCART 38				384098.8 6431959.9
RE DISCCART 38				384103.7 6431959.9
RE DISCCART 38				384119.28 6431979.45
RE DISCCART 38	86400.0	6436600.0	RE DISCCART	384124.5 6431986.0
RE DISCCART 38	86600.0	6436600.0	RE DISCCART	384149.32 6431982.98
RE DISCCART 38	86800.0	6436600.0	RE DISCCART	384168.0 6431980.7
** BOUNDARY B		0.00000.0		384181.57 6431959.7
		6422720 7		
RE DISCCART 38				384183.7 6431956.4
RE DISCCART 38				384208.68 6431957.51
RE DISCCART 38			RE DISCCART	384233.65 6431958.61
RE DISCCART 38	83206.2	6432653.7	RE DISCCART	384258.63 6431959.72
RE DISCCART 38				384283.6 6431960.82
RE DISCCART 38				384308.58 6431961.93
RE DISCCART 38				384333.55 6431963.03
RE DISCCART 38				384358.53 6431964.14
RE DISCCART 38				384380.2 6431965.1
RE DISCCART 38	83208.07	6432518.64	RE DISCCART	384402.79 6431975.82
RE DISCCART 38				384425.37 6431986.53
	83209.01	6432493.65	VE DIOCCAL I	3044Z3,37 0431900.33
RE DISCOART 35				
RE DISCCART 38	83209.94	6432468.67	RE DISCCART	384447.96 6431997.25 384470.55 6432007.96

RE DISCCART 384493.13 6432018.68	RE DISCCART 384547.0 6433045.2
RE DISCCART 384515.72 6432029.4	RE DISCCART 384522.0 6433045.2
RE DISCCART 384538.31 6432040.11	RE DISCCART 384497.0 6433045.2
RE DISCCART 384560.9 6432050.83	RE DISCCART 384472.0 6433045.2
RE DISCCART 384583.48 6432061.54	RE DISCCART 384447.0 6433045.2
RE DISCCART 384585.5 6432062.5	RE DISCCART 384422.0 6433045.2
RE DISCCART 384603.62 6432079.73	RE DISCCART 384397.0 6433045.2
RE DISCCART 384621.73 6432096.95	RE DISCCART 384372.0 6433045.2
RE DISCCART 384639.85 6432114.18	RE DISCCART 384347.0 6433045.2
RE DISCCART 384656.8 6432130.3	RE DISCCART 384322.0 6433045.2
RE DISCCART 384670.66 6432151.11	RE DISCCART 384297.0 6433045.2
RE DISCCART 384684.52 6432171.91	RE DISCCART 384272.0 6433045.2
RE DISCCART 384698.38 6432192.72	RE DISCCART 384247.0 6433045.2
RE DISCCART 384698.5 6432192.9	RE DISCCART 384222.0 6433045.2
RE DISCCART 384708.65 6432215.75	RE DISCCART 384197.0 6433045.2
RE DISCCART 384718.81 6432238.59	RE DISCCART 384172.0 6433045.2
RE DISCCART 384728.96 6432261.44	RE DISCCART 384147.0 6433045.2
RE DISCCART 384733.3 6432271.2	RE DISCCART 384122.0 6433045.2
RE DISCCART 384736.1 6432296.04	RE DISCCART 384097.0 6433045.2
RE DISCCART 384738.9 6432320.88	RE DISCCART 384072.0 6433045.2
RE DISCCART 384741.71 6432345.73	RE DISCCART 384047.0 6433045.2
RE DISCCART 384743.7 6432363.4	RE DISCCART 384022.0 6433045.2
RE DISCCART 384742.74 6432388.38	RE DISCCART 383997.0 6433045.2
RE DISCCART 384741.78 6432413.36	RE DISCCART 383972.0 6433045.2
RE DISCCART 384740.83 6432438.34	RE DISCCART 383947.0 6433045.2
RE DISCCART 384739.87 6432463.33	RE DISCCART 383922.0 6433045.2
RE DISCCART 384738.91 6432488.31	RE DISCCART 383897.0 6433045.2
RE DISCCART 384737.95 6432513.29	RE DISCCART 383872.0 6433045.2
RE DISCCART 384737.0 6432538.27	RE DISCCART 383847.0 6433045.2
RE DISCCART 384736.04 6432563.25	RE DISCCART 383822.0 6433045.2
RE DISCCART 384735.08 6432588.23	RE DISCCART 383797.0 6433045.2
RE DISCCART 384734.12 6432613.22	RE DISCCART 383785.4 6433045.2
RE DISCCART 384733.3 6432634.7	RE DISCCART 383785.53 6433020.2
RE DISCCART 384733.45 6432659.7	RE DISCCART 383785.67 6432995.2
RE DISCCART 384733.61 6432684.7	RE DISCCART 383785.8 6432970.2
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RE DISCCART 384733.92 6432734.7	RE DISCOART 383786.07 6432920.2
RE DISCCART 384734.07 6432759.7	RE DISCCART 383786.21 6432895.2
RE DISCCART 384734.23 6432784.7	RE DISCCART 383786.34 6432870.2
RE DISCCART 384734.38 6432809.7	RE DISCCART 383786.47 6432845.2
RE DISCCART 384734.54 6432834.7	RE DISCCART 383786.61 6432820.2
RE DISCCART 384734.69 6432859.7	RE DISCCART 383786.74 6432795.2
RE DISCCART 384734.85 6432884.7	RE DISCCART 383786.88 6432770.2
RE DISCCART 384735.0 6432909.6	RE DISCCART 383787.01 6432745.2
RE DISCCART 384710.9 6432916.25	RE DISCCART 383787.1 6432728.7
RE DISCCART 384686.8 6432922.89	RE DISCCART 383762.1 6432728.7
RE DISCCART 384684.6 6432923.5	RE DISCCART 383737.1 6432728.7
RE DISCCART 384685.96 6432948.46	RE DISCCART 383712.1 6432728.7
RE DISCCART 384687.31 6432973.43	RE DISCCART 383687.1 6432728.7
RE DISCCART 384688.67 6432998.39	RE DISCCART 383662.1 6432728.7
RE DISCCART 384690.03 6433023.35	RE DISCCART 383637.1 6432728.7
RE DISCCART 384691.39 6433048.32	RE DISCCART 383612.1 6432728.7
RE DISCCART 384692.74 6433073.28	RE DISCCART 383587.1 6432728.7
RE DISCCART 384694.1 6433098.24	RE DISCCART 383562.1 6432728.7
RE DISCCART 384695.46 6433123.2	RE DISCCART 383537.1 6432728.7
RE DISCCART 384696.82 6433148.17	RE DISCCART 383512.1 6432728.7
RE DISCCART 384698.17 6433173.13	RE DISCCART 383487.1 6432728.7
RE DISCCART 384699.53 6433198.09	RE DISCCART 383462.1 6432728.7
RE DISCCART 384700.89 6433223.06	RE DISCCART 383437.1 6432728.7
RE DISCCART 384702.0 6433243.5	RE DISCCART 383412.1 6432728.7
RE DISCCART 384688.1 6433231.3	RE DISCCART 383387.1 6432728.7
RE DISCCART 384673.24 6433211.2	RE DISCCART 383362.1 6432728.7
RE DISCCART 384663.7 6433198.3	RE DISCCART 383337.1 6432728.7
RE DISCCART 384650.87 6433176.84	RE DISCCART 383312.1 6432728.7
RE DISCCART 384642.9 6433163.5	RE DISCCART 383287.1 6432728.7
RE DISCCART 384633.42 6433140.37	RE DISCCART 383262.1 6432728.7
RE DISCCART 384627.2 6433125.2	RE DISCCART 383237.1 6432728.7
RE DISCCART 384622.0 6433100.9	RE DISCCART 383212.1 6432728.7
RE DISCCART 384622.0 6433075.9	RE DISCCART 383200.9 6432728.7
RE DISCCART 384622.0 6433050.9	RE DISCCART 383209.6 6432730.4
RE DISCCART 384622.0 6433045.2	
DE DICCOADT 204ECZ 2 242224E 2	RE FINISHED
RE DISCCART 384597.0 6433045.2	
RE DISCCART 384597.0 6433045.2 RE DISCCART 384572.0 6433045.2	RE FINISHED ME STARTING

ME INPUTFIL V:\kw97aus.isc ME ANEMHGHT 10 METERS ME SURFDATA 1 1997 ME UAIRDATA 1 1997 ME STARTEND 1997 01 01 1 1997 12 31 24 ME WDROTATE 180 ME FINISHED

OU STARTING OU RECTABLE 1 FIRST OU PLOTFILE 1 NOXSHUT FIRST "V:\Expansion Emissions Scenario\ISC_Rural_Exp\CSBP Expansion -Rural_NOxShut_1hr.PLT" OU FINISHED

** PROJECTN 0 104 7 -177 0 0.9996 500000 0 ** MAPLAYER "C:\PROGRAM FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP LAYOUT22.JPG" "CSBP LAYOUT22" 3 UNKNOWN UNKNOWN 1 0 0 0 0 0 0 1 0 0 0 0 0 1 1 383111.43 384872.91 6431893.26 6432839.55 ** MAPLAYER "C:\PROGRAM FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP

LAYOUT42.JPG" "CSBP LAYOUT42" 3 UNKNOWN UNKNOWN 1 0 0 0 0 0 0 1 0 0 0 0 0 1 1 383425.22 384023.89 6432476.39 6432798 ** MAPLAYER "C:\PROGRAM

FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP LAYOUT52.JPG" "CSBP LAYOUT52" 3 UNKNOWN UNKNOWN 1 0 0 0 0 0 0 0 0 0 16777215 0 0 1 1 384128.82 384723.2 6431933.6 6432251 ** MAPLAYER "C:\PROGRAM

FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP LAYOUT32.JPG" "CSBP LAYOUT32" 3 UNKNOWN UNKNOWN 1 0 0 0 0 0 0 1 0 0 0 0 0 1 1 383292.7 383882.87 6432225.81 6432542.86

** MAPLAYER "C:\PROGRAM FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP W AERIAL1.JPG" "CSBP W AERIAL1" 3 UNKNOWN UNKNOWN 1 0 0 0 0 0 0 0 0 0 16777215 0 0 1 1 376819.74 388838.78 6429266.93 6436015.22

** MAPLAYER "C:\PROGRAM FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP S AERIAL2.JPG" "CSBP S AERIAL2" 3 UNKNOWN UNKNOWN 1 0 0 0 0 0 0 0 0 0 16777215 0 0 1 1 380710.29 388112.25 6427877.74 6432017.73

** MAPLAYER "C:\PROGRAM FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP N AERIAL1.JPG" "CSBP N AERIAL1" 3 UNKNOWN UNKNOWN 1 0 0 0 0 0 0 0 0 0 16777215 0 0 1 1

380755.77 388230.52 6431834.46 6436031.28 ** MAPLAYER "C:\PROGRAM FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP ROAD MAP1.JPG" "CSBP ROAD MAP1" 3 UNKNOWN

UNKNOWN 1 0 0 0 0 0 0 0 0 0 16777215 0 0 1 1 381263.37 387261.93 6430981.13 6434468.75 ** MAPLAYER "C:\PROGRAM

FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP AERIAL11.JPG" "CSBP AERIAL11" 3 UNKNOWN UNKNOWN 1 0 0 0 0 0 0 1 0 0 0 0 0 1 1 381633.7 386801.59 6431276.68 6434137.41

** MAPLAYER "C:\PROGRAM

FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP AERIAL22.JPG" "CSBP AERIAL22" 3 UNKNOWN UNKNOWN 1 0 0 0 0 0 0 1 0 0 0 0 0 1 1 382975.67 384848.18 6431895.74 6432762.3

** MAPLAYER "C:\PROGRAM

FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP AERIAL43.JPG" "CSBP AERIAL43" 3 UNKNOWN UNKNOWN 1 0 0 0 0 0 0 1 0 0 0 0 0 1 1 383288.79 383903.83 6432239.34 6432537.99

** MAPLAYER "C:\PROGRAM

FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP

AERIAL52.JPG" "CSBP AERIAL52" 3 UNKNOWN UNKNOWN 1 0 0 0 0 0 0 1 0 0 0 0 0 1 1 384197.18 384595.93 6431985.56 6432207.15

** MAPLAYER "C:\PROGRAM

FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP AERIAL62.JPG" "CSBP AERIAL62" 3 UNKNOWN UNKNOWN 1 0 0 0 0 0 0 1 0 0 0 0 0 1 1 383539.01 383939.5 6432550.56 6432770.82

* MAPLAYER "C:\PROGRAM

FILES\BREEZE\ISC5\PROJECTS\CSBP\CSBP LAYOUT PROP BOUND1.JPG" "CSBP LAYOUT PROP BOUND1" 3 UNKNOWN UNKNOWN 1 0 0 0 0 0 0 0 0 0 16777215 0 0 1 1 382423.91 385193.44 6431804.96 6433292.79

** OUTFILE "V:\Expansion Emissions

Scenario\ISC_Rural_Exp\CSBP Expansion - Rural.LST"
** RAWFILE "V:\Expansion Emissions

Scenario\ISC_Rural_Exp\CSBP Expansion - Rural.RAW"

** RAWFMT 2

** HILLBOUN 0000

** POLLUTNT IDN 01 PM10 X

** POLLUTNT NAM 01 PM10

** POLLUTNT IDN 02 NH3 X

** POLLUTNT NAM 02 NH3

** POLLUTNT IDN 03 NOX_NORM1 X

** POLLUTNT NAM 03 NOx - Normal with new boiler ** POLLUTNT IDN 04 NOX_START X

** POLLUTNT NAM 04 NOx - Startup ** POLLUTNT IDN 05 NOX_SHUT X

** POLLUTNT NAM 05 NOx - Shutdown

** POLLUTNT IDN 06 NOX_NORM2 X

** POLLUTNT NAM 06 NOx - Normal with both boilers

** POLLUTNT EMS SRC1 6.400000E-01 0 0 0 0

** POLLUTNT EMS SRC2 1.810000E-01 2.900000E-01 0 000

** POLLUTNT EMS SRC3 2.900000E-01 2.350000E-01 0

** POLLUTNT EMS SRC4 0 0 1.067000E+01

1.067000E+01 0 1.067000E+01

** POLLUTNT EMS SRC5 0 0 0 0 1.519000E+01 0

** POLLUTNT EMS SRC6 0 0 5.170000E+00 5.170000E+00 5.170000E+00 5.170000E+00

POLLUTNT EMS SRC7 0 0 0 1.590000E+00

1.590000E+00 1.590000E+00

* POLLUTNT EMS SRC8 0 0 2.390000E+00

2.390000E+00 2.390000E+00 2.390000E+00

** POLLUTNT EMS SRC9 0 0 1.462000E+01

7.310000E+00 0 1.462000E+01

** POLLUTNT EMS SRC10 0 0 0 1.890000E+01 0 0

** POLLUTNT EMS SRC11 0 0 0 0 9.800000E+00 0

** POLLUTNT EMS SRC12 0 0 1.462000E+01

1.462000E+01 0 1.462000E+01

POLLUTNT EMS SRC13 0 0 0 0 9.800000E+00 0

** POLLUTNT EMS SRC14 3.300000E-01 4.400000E-02

** BUILDING BLD 1 1 0 22.3 5

** BUILDING IDN BLD1

** BUILDING NAM Prilling Plant

** BUILDING CRN 383583.6 6432396.9

** BUILDING CRN 383583.6 6432356.3

** BUILDING CRN 383598.9 6432356.3 ** BUILDING CRN 383598.9 6432396.9

** BUILDING CRN 383583.6 6432396.9

** BUILDING BLD 2 1 0 65.3 24

** BUILDING IDN BLD2

** BUILDING NAM Prill Plant Stack

** BUILDING TNK 383592.3 6432411.9 8.3

** BUILDING BLD 4 1 0 18.9 4

** BUILDING IDN BLD4

** BUILDING NAM No 1 Compuonds Bin

** BUILDING CRN 383608.7 6432389.6

** BUILDING CRN 383608.7 6432341.3

** BUILDING CRN 383914.2 6432341.3	** BUILDING NAM W of Nitric Acid Plant
** BUILDING CRN 383914.2 6432389.6	** BUILDING CRN 383515.5 6432524.7
** BUILDING BLD 5 1 0 25.9 4	** BUILDING CRN 383515.5 6432494.3
** BUILDING IDN BLD5	** BUILDING CRN 383535.7 6432494.3
** BUILDING NAM S No 1 Compounds Bin	** BUILDING CRN 383535.4 6432502.1
** BUILDING CRN 383686.6 6432341.3	** BUILDING CRN 383543.9 6432502.1
** BUILDING CRN 383686.6 6432317.5	** BUILDING CRN 383543.9 6432491.5
** BUILDING CRN 383763.1 6432317.5	** BUILDING CRN 383552.9 6432491.5
** BUILDING CRN 383763.1 6432341.3	** BUILDING CRN 383552.9 6432523.3
** BUILDING BLD 6 1 0 21.34 6	** BUILDING CRN 383543.9 6432523.3
** BUILDING IDN BLD6	** BUILDING CRN 383543.9 6432519.3
** BUILDING NAM S of No 1 Compounds Bin	** BUILDING CRN 383535.7 6432519.3
** BUILDING CRN 383762.6 6432341.3	** BUILDING CRN 383535.7 6432524.7
** BUILDING CRN 383762.6 6432330.8	** BUILDING BLD 17 1 0 19.5 4
** BUILDING CRN 383877.9 6432331.0	** BUILDING IDN BLD17
** BUILDING CRN 383877.9 6432330.3	** BUILDING NAM Nitric Acid Plant 1
** BUILDING CRN 383877.9 6432341.3	** BUILDING CRN 383598.0 6432514.7
** BUILDING CRN 383761.6 6432341.3	** BUILDING CRN 383598.0 6432504.1
** BUILDING BLD 7 1 0 10 4	** BUILDING CRN 383621.5 6432504.1
** BUILDING IDN BLD7	** BUILDING CRN 383621.4 6432514.8
** BUILDING NAM W side Prilling Plant	** BUILDING BLD 18 1 0 19.5 4
** BUILDING CRN 383583.6 6432376.3	** BUILDING IDN BLD18
** BUILDING CRN 383578.8 6432376.3	** BUILDING NAM Nitric Acid Plant 2
** BUILDING CRN 383578.8 6432355.6	** BUILDING CRN 383601.0 6432520.9
** BUILDING CRN 383583.6 6432355.6	** BUILDING CRN 383601.0 6432515.0
** BUILDING BLD 8 1 0 33.5 5	** BUILDING CRN 383606.1 6432515.0
** BUILDING IDN BLD8	** BUILDING CRN 383606.1 6432520.9
** BUILDING NAM W of Gran Plant	** BUILDING BLD 19 1 0 19.5 4
** BUILDING CRN 383604.8 6432438.2	** BUILDING IDN BLD19
** BUILDING CRN 383604.8 6432426.4	** BUILDING NAM Nitric Acid Plant 3
** BUILDING CRN 383608.9 6432426.4	** BUILDING CRN 383592.0 6432499.5
** BUILDING CRN 383608.7 6432438.4	** BUILDING CRN 383592.0 6432487.3
** BUILDING CRN 383603.6 6432438.2	** BUILDING CRN 383599.1 6432487.3
** BUILDING BLD 9 1 0 33.5 5	** BUILDING CRN 383599.1 6432499.4
** BUILDING IDN BLD9	** BUILDING BLD 20 1 0 19.5 5
** BUILDING NAM Gran Plant	** BUILDING IDN BLD20
** BUILDING CRN 383609.2 6432450.2	** BUILDING NAM Nitric Acid Plant 4
** BUILDING CRN 383609.2 6432401.9	** BUILDING CRN 383570.1 6432498.2
** BUILDING CRN 383633.7 6432402.1	** BUILDING CRN 383570.1 6432486.6
** BUILDING CRN 383633.5 6432450.4	** BUILDING CRN 383578.5 6432486.7
** BUILDING CRN 383608.9 6432450.4	** BUILDING CRN 383578.5 6432498.4
** BUILDING BLD 11 1 0 23.2 5	** BUILDING CRN 383570.0 6432498.2
** BUILDING IDN BLD11	** BUILDING BLD 21 1 0 7 4
** BUILDING NAM No. 2 Compounds Bin	** BUILDING IDN BLD21
** BUILDING CRN 383633.7 6432450.4	** BUILDING NAM W of Prill Plant
** BUILDING CRN 383633.5 6432401.9	** BUILDING CRN 383509.9 6432430.1
** BUILDING CRN 383929.3 6432402.6	** BUILDING CRN 383509.6 6432403.4
** BUILDING CRN 383929.0 6432451.5	** BUILDING CRN 383520.1 6432403.7
** BUILDING CRN 383632.7 6432450.4	** BUILDING CRN 383520.1 6432430.1
** BUILDING BLD 12 1 0 18.3 5	** BUILDING BLD 22 1 0 7 4
** BUILDING IDN BLD12	** BUILDING IDN BLD22
** BUILDING NAM N of No. 2 Compounds Bin	DOILDING IDIN DEDEL
** BUILDING CRN 383704.3 6432477.5	** BLIII DING NAM W of Prill Plant
	** BUILDING NAM W of Prill Plant
	** BUILDING CRN 383520.2 6432373.8
** BUILDING CRN 383704.5 6432442.5	** BUILDING CRN 383520.2 6432373.8 ** BUILDING CRN 383538.9 6432373.8
** BUILDING CRN 383704.5 6432442.5 ** BUILDING CRN 383891.7 6432442.5	** BUILDING CRN 383520.2 6432373.8
	** BUILDING CRN 383520.2 6432373.8 ** BUILDING CRN 383538.9 6432373.8
** BUILDING CRN 383891.7 6432442.5	** BUILDING CRN 383520.2 6432373.8 ** BUILDING CRN 383538.9 6432373.8 ** BUILDING CRN 383538.9 6432391.8
** BUILDING CRN 383891.7 6432442.5 ** BUILDING CRN 383891.2 6432477.8 ** BUILDING CRN 383704.3 6432477.8	** BUILDING CRN 383520.2 6432373.8 ** BUILDING CRN 383538.9 6432373.8 ** BUILDING CRN 383538.9 6432391.8 ** BUILDING CRN 383520.2 6432391.8 ** BUILDING BLD 23 1 0 7 4
** BUILDING CRN 383891.7 6432442.5 ** BUILDING CRN 383891.2 6432477.8 ** BUILDING CRN 383704.3 6432477.8 ** BUILDING BLD 14 1 0 19.7 4	** BUILDING CRN 383520.2 6432373.8 ** BUILDING CRN 383538.9 6432373.8 ** BUILDING CRN 383538.9 6432391.8 ** BUILDING CRN 383520.2 6432391.8 ** BUILDING BLD 23 1 0 7 4 ** BUILDING IDN BLD23
** BUILDING CRN 383891.7 6432442.5 ** BUILDING CRN 383891.2 6432477.8 ** BUILDING CRN 383704.3 6432477.8 ** BUILDING BLD 14 1 0 19.7 4 ** BUILDING IDN BLD14	** BUILDING CRN 383520.2 6432373.8 ** BUILDING CRN 383538.9 6432373.8 ** BUILDING CRN 383538.9 6432391.8 ** BUILDING CRN 383520.2 6432391.8 ** BUILDING BLD 23 1 0 7 4 ** BUILDING IDN BLD23 ** BUILDING NAM W of Prill Plant
** BUILDING CRN 383891.7 6432442.5 ** BUILDING CRN 383891.2 6432477.8 ** BUILDING CRN 383704.3 6432477.8 ** BUILDING BLD 14 1 0 19.7 4 ** BUILDING IDN BLD14 ** BUILDING NAM Compounds Building	** BUILDING CRN 383520.2 6432373.8 ** BUILDING CRN 383538.9 6432373.8 ** BUILDING CRN 383538.9 6432391.8 ** BUILDING CRN 383520.2 6432391.8 ** BUILDING BLD 23 1 0 7 4 ** BUILDING IDN BLD23 ** BUILDING NAM W of Prill Plant ** BUILDING CRN 383506.2 6432379.4
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### BUILDING INN AM N		
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## DULLDING TINK 383548.0 6432274.5 4.5 ## DULLDING CRN 38394.6 6432109.9 ## DULLDING CRN 38398.3 6432166.5 ## DULLDING CRN 38396.3 643226.5 ## DULLDING CRN 38396.1 643226.5 ## DULLDING CRN 38396.6 643228.5 ## DULLDING CRN 383		
## BUILDING BLD 27 1 0 7 24 ## BUILDING DN BLD27 ## BUILDING NAM 2nd S ## BUILDING BLD 28 1 0 7 24 ## BUILDING BLD 28 1 0 7 24 ## BUILDING BLD 28 1 0 7 24 ## BUILDING NAM Super Bin ## BUILDING CRN 383596.6 (432256.5 5 ## BUILDING RAM 383596.6 (432256.5 5 ## BUILDING CRN 383596.6 (432225.5 5 ## BUILDING CRN 383596.6 (432225.5 5 ## BUILDING CRN 383596.6 (432225.5 5 ## BUILDING CRN 383596.7 (432227.5 6 ## BUILDING CRN 383597.7 (432227.5 6 ## BUILDING CRN 383598.7 (432226.0 1) ## BUILDING CRN 383598.7 (432226.1 6) ## BUILDING CRN 383598.8 (432226.6 6) ## BUILDING CRN 383598.		
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## BUILDING NAM 2nd S ## BUILDING INN 83547.8 6432363.5 5.5 ## BUILDING INN 83547.8 6432363.5 5.5 ## BUILDING IDN BLD28 ## BUILDING IDN BLD28 ## BUILDING NAM SUper Bin ## BUILDING CRN 383596.1 6432226.5 ## BUILDING BLD 29 1 0 12.2 4 ## BUILDING RDN 383596.1 6432225.5 ## BUILDING RDN 38357.7 6432225.0 ## BUILDING CRN 38357.7 6432225.0 ## BUILDING CRN 38357.7 6432225.5 ## BUILDING CRN 38358.6 ## BUILDING CRN 38		
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** BUILDING BLD 33 1 0 4.5 4 ** BUILDING IDN BLD33 ** BUILDING NAM N of SMP bldg ** BUILDING CRN 38345.5 6432596.8 ** BUILDING CRN 383441.9 6432279.8 ** BUILDING CRN 383441.9 6432268.2 ** BUILDING CRN 383441.9 6432268.2 ** BUILDING CRN 383483.5 6432268.2 ** BUILDING CRN 383483.5 6432279.8 ** BUILDING CRN 383483.5 6432279.8 ** BUILDING CRN 383791.2 6432715.1 ** BUILDING BLD 34 1 0 4.5 6 ** BUILDING BLD 34 1 0 4.5 6 ** BUILDING CRN 383523.0 6432273.8 ** BUILDING CRN 383523.0 6432267.7 ** BUILDING CRN 383549.2 6432267.7 ** BUILDING CRN 383549.2 6432278.7 ** BUILDING CRN 383549.2 6432278.7 ** BUILDING CRN 383528.8 6432273.8 ** BUILDING CRN 383528.8 6432273.8 ** BUILDING BLD 36 1 0 10 24 ** BUILDING BLD 36 1 0 10 24 ** BUILDING BLD 37 1 0 10 24 ** BUILDING BLD 37 1 0 10 24 ** BUILDING BLD 38 1 0 10 24 ** BUILDING BLD 39 1 0 10 24 ** BUILDING BLD 39 1 0 10 24 ** BUILDING C	** BUILDING CRN 383560.1 6432209.5	** BUILDING CRN 383798.9 6432596.8
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** BUILDING CRN 383528.8 6432273.8	** BUILDING CRN 383549.2 6432278.7	** BUILDING CRN 383805.2 6432661.1
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** BUILDING IDN BLD39 *** BUILDING CRN 383798.3 6432600.0		
	ROIFDING IDN RFD38	*** BUILDING CRN 383798.3 6432600.0

** BUILDING CRN 383798.3 6432606.0 ** BUILDING IDN BLD66 ** BUILDING BLD 53 1 0 5 24 ** BUILDING NAM Turbine Alt Bldg ** BUILDING CRN 384401.3 6432029.2 ** BUILDING IDN BLD53 ** BUILDING NAM Ammonia Proj tank ** BUILDING CRN 384390.6 6432014.0 ** BUILDING TNK 383758.9 6432643.1 5.6 ** BUILDING CRN 384397.6 6432009.2 ** BUILDING BLD 54 1 0 5 24 ** BUILDING CRN 384408.5 6432024.7 ** BUILDING IDN BLD54 ** BUILDING BLD 67 1 0 5 6 ** BUILDING NAM Ammonia Proi tank ** BUILDING IDN BLD67 ** BUILDING TNK 383743.8 6432641.2 4.0 ** BUILDING NAM CAP area bldg ** BUILDING BLD 56 1 0 14 4 ** BUILDING CRN 384379.4 6432185.0 ** BUILDING IDN BLD56 ** BUILDING CRN 384369.1 6432170.4 ** BUILDING NAM HAP Bldg ** BUILDING CRN 384373.5 6432167.3 ** BUILDING CRN 384289.4 6432179.2 ** BUILDING CRN 384382.3 6432180.4 ** BUILDING CRN 384390.1 6432174.7 ** BUILDING CRN 384258.0 6432134.4 ** BUILDING CRN 384291.5 6432111.5 ** BUILDING CRN 384391.7 6432177.1 ** BUILDING CRN 384321.9 6432156.8 ** BUILDING BLD 68 1 0 5 4 ** BUILDING BLD 57 1 0 8.2 4 ** BUILDING IDN BLD68 ** BUILDING IDN BLD57 ** BUILDING NAM CAP area bldg ** BUILDING NAM CAP Control Room ** BUILDING CRN 384380.9 6432178.0 ** BUILDING CRN 384322.7 6432112.3 ** BUILDING CRN 384315.2 6432100.1 ** BUILDING CRN 384377.7 6432173.2 ** BUILDING CRN 384398.6 6432159.0 ** BUILDING CRN 384337.9 6432084.9 ** BUILDING CRN 384402.1 6432164.0 ** BUILDING CRN 384345.6 6432096.6 ** BUILDING BLD 69 1 0 5 4 ** BUILDING BLD 58 1 0 7.9 4 ** BUILDING IDN BLD69 ** BUILDING NAM CAP area bldg ** BUILDING IDN BLD58 ** BUILDING NAM CAP Cell Bldg ** BUILDING CRN 384408.3 6432166.0 ** BUILDING CRN 384330.4 6432123.3 ** BUILDING CRN 384401.9 6432157.0 ** BUILDING CRN 384417.2 6432145.9 ** BUILDING CRN 384323.5 6432112.1 ** BUILDING CRN 384346.1 6432096.1 ** BUILDING CRN 384423.6 6432155.5 ** BUILDING CRN 384354.1 6432107.5 ** BUILDING BLD 10 1 0 6.4 8 ** BUILDING BLD 59 1 0 9 6 ** BUILDING IDN BLD10 ** BUILDING IDN BLD59 ** BUILDING NAM Chlorine Despatch Bldg ** BUILDING NAM CAP Bldg ** BUILDING CRN 384370.9 6432123.2 ** BUILDING CRN 384344.0 6432141.9 ** BUILDING CRN 384331.5 6432123.8 ** BUILDING CRN 384362.4 6432111.4 ** BUILDING CRN 384383.2 6432097.0 ** BUILDING CRN 384354.4 6432108.1 ** BUILDING CRN 384374.8 6432084.1 ** BUILDING CRN 384371.2 6432133.1 ** BUILDING CRN 384366.9 6432090.0 ** BUILDING CRN 384360.3 6432139.8 ** BUILDING CRN 384358.2 6432076.6 ** BUILDING CRN 384356.0 6432132.8 ** BUILDING CRN 384373.7 6432067.0 ** BUILDING BLD 61 1 0 37.1 4 ** BUILDING CRN 384399.2 6432103.8 ** BUILDING IDN BLD61 ** BUILDING BLD 44 1 0 24.4 4 ** BUILDING NAM S NaCN Solids Process Bldg ** BUILDING CRN 384442.9 6432097.4 ** BUILDING IDN BLD44 ** BUILDING NAM Top of SMP Bldg ** BUILDING CRN 383375.1 6432252.0 ** BUILDING CRN 384436.7 6432088.6 ** BUILDING CRN 384447.1 6432081.7 ** BUILDING CRN 383375.1 6432227.3 ** BUILDING CRN 384454.0 6432090.2 ** BUILDING CRN 383509.5 6432227.3 ** BUILDING CRN 383509.5 6432252.0 ** BUILDING BLD 62 1 0 16.8 4 ** BUILDING IDN BLD62 ** BUILDING BLD 60 1 0 15 24 ** BUILDING NAM NaCN Solids Process Bldg ** BUILDING IDN BLD60 ** BUILDING CRN 384450.3 6432120.6 ** BUILDING NAM SMP tank ** BUILDING CRN 384438.1 6432101.4 ** BUILDING TNK 383350.2 6432262.1 10.0 ** BUILDING CRN 384453.8 6432090.8 ** BUILDING BLD 70 1 0 19.5 4 ** BUILDING CRN 384467.1 6432110.2 ** BUILDING IDN BLD70 ** BUILDING BLD 63 1 0 13.8 4 ** BUILDING NAM Nitric Acid Plant ** BUILDING IDN BLD63 ** BUILDING CRN 383574.3 6432504.1 ** BUILDING NAM N NaCN Control ** BUILDING CRN 383574.3 6432499.2 ** BUILDING CRN 384415.9 6432092.1 ** BUILDING CRN 383630.6 6432499.4 ** BUILDING CRN 383630.6 6432504.2 ** BUILDING CRN 384403.2 6432074.2 ** BUILDING CRN 384410.1 6432069.7 ** BUILDING BLD 71 1 0 18 6 ** BUILDING IDN BLD71 ** BUILDING CRN 384422.9 6432087.3 ** BUILDING NAM Ammonia Project Structure A ** BUILDING BLD 64 1 0 26 4 ** BUILDING IDN BLD64 ** BUILDING CRN 383742.8 6432630.6 ** BUILDING CRN 384426.3 6432084.9 ** BUILDING CRN 383742.8 6432619.1 ** BUILDING CRN 384416.7 6432070.5 ** BUILDING CRN 384436.7 6432056.4 ** BUILDING CRN 383736.8 6432619.1 ** BUILDING CRN 383736.8 6432606.0 ** BUILDING CRN 384446.6 6432071.3 ** BUILDING CRN 383755.3 6432606.0 ** BUILDING CRN 383755.3 6432630.8 ** BUILDING BLD 65 1 0 6 4 ** BUILDING BLD 72 1 0 18 4 ** BUILDING IDN BLD65 ** BUILDING CRN 384425.8 6432063.3 ** BUILDING IDN BLD72 ** BUILDING CRN 384405.8 6432034.0 ** BUILDING NAM Ammonia Proj Structure S of reformer ** BUILDING CRN 383804.0 6432641.9 ** BUILDING CRN 384411.9 6432030.0 ** BUILDING CRN 384431.1 6432059.6 ** BUILDING CRN 383804.0 6432605.2 ** BUILDING BLD 66 1 0 13.5 4 ** BUILDING CRN 383820.0 6432605.2

- ** BUILDING CRN 383820.0 6432641.9
- ** BUILDING BLD 73 1 0 24 24
- ** BUILDING IDN BLD73
- ** BUILDING NAM V3001
- ** BUILDING TNK 383785.1 6432681.0 1.85
- ** BUILDING BLD 74 1 0 46 24
- ** BUILDING IDN BLD74
- ** BUILDING NAM V3008
- ** BUILDING TNK 383784.9 6432675.1 1.7
- ** BUILDING BLD 75 1 0 10.9 4
- ** BUILDING IDN BLD75
- ** BUILDING NAM Ammonia Proj Elec & Tech
- ** BUILDING CRN 383728.5 6432587.5
- ** BUILDING CRN 383728.3 6432572.8
- ** BUILDING CRN 383751.1 6432572.8
- ** BUILDING CRN 383751.1 6432587.3
- ** BUILDING BLD 0 0 0 19.4 4
- ** BUILDING IDN BLD76
- ** BUILDING NAM Nitric Acid Plant 1b
- ** BUILDING CRN 383608.0 6432582.0
- ** BUILDING CRN 383608.0 6432572.0
- ** BUILDING CRN 383631.5 6432572.1
- ** BUILDING CRN 383631.4 6432582.0
- ** BUILDING BLD 0 0 0 19.5 4
- ** BUILDING IDN BLD77
- ** BUILDING NAM Nitric Acid Plant 2b
- ** BUILDING CRN 383611.0 6432588.0
- ** BUILDING CRN 383611.0 6432583.0
- ** BUILDING CRN 383616.1 6432583.0
- ** BUILDING CRN 383616.1 6432588.0
- ** BUILDING BLD 0 0 0 19.5 4
- ** BUILDING IDN BLD78
- ** BUILDING NAM Nitric Acid Plant 3b
- ** BUILDING CRN 383602.0 6432567.0
- ** BUILDING CRN 383602.0 6432555.0 ** BUILDING CRN 383609.1 6432555.0
- ** BUILDING CRN 383609.1 6432567.0
- ** BUILDING BLD 0 0 0 19.5 5
- ** BUILDING IDN BLD79
- ** BUILDING NAM Nitric Acid Plant 4b
- ** BUILDING CRN 383580.1 6432566.0
- ** BUILDING CRN 383580.1 6432554.0 ** BUILDING CRN 383588.5 6432554.0
- ** BUILDING CRN 383588.5 6432566.0 ** BUILDING CRN 383580.0 6432566.0
- ** BUILDING BLD 0 0 0 19.5 4
- ** BUILDING IDN BLD80
- ** BUILDING NAM Nitric Acid Plant b
- ** BUILDING CRN 383584.3 6432572.0
- ** BUILDING CRN 383584.3 6432567.0 ** BUILDING CRN 383640.6 6432567.0
- ** BUILDING CRN 383640.6 6432572.0
- ** BUILDING BLD 0 0 0 55 4
- ** BUILDING IDN BLD81
- ** BUILDING NAM PP2 Structure
- ** BUILDING REC 383908.6 6432585.1 8.0 10.0 0.0 ** BUILDING BLD 0 0 0 62 4
- ** BUILDING IDN BLD82
- ** BUILDING NAM PP2 Tower ** BUILDING REC 383897.8 6432585.1 10.5 10.5 0.0
- ** BUILDING BLD 0 0 0 15 4
- ** BUILDING IDN BLD83
- ** BUILDING NAM PP2 Storage ** BUILDING REC 383934.3 6432573.6 32.0 36.0 0.0 ** BUILDING BLD 0 0 0 37 24
- ** BUILDING IDN BLD3
- ** BUILDING NAM 30K NH3 Tank ** BUILDING TNK 383509.6 6432683.1 25.0
- ** BUILDING BLD 0 0 0 30 24
- ** BUILDING IDN BLD13
- ** BUILDING NAM 10K NH3 Tank
- ** BUILDING TNK 383499.0 6432616.5 15.0
- ** BUILDING BLD 0 0 0 10 4

- ** BUILDING IDN BLD35
- ** BUILDING NAM NAP3 Cooling tower
- ** BUILDING REC 383709.5 6432647.6 30.0 12.0 0.0
- ** BUILDING BLD 0 0 0 19.4 4
- ** BUILDING IDN BLD50
- ** BUILDING NAM NAP3a
- ** BUILDING REC 383629.9 6432651.8 25.0 10.0 0.0
- ** BUILDING BLD 0 0 0 19.4 4
- ** BUILDING IDN BLD51
- ** BUILDING NAM NAP3b
- ** BUILDING REC 383648.2 6432646.0 5.0 5.0 0.0
- ** BUILDING BLD 0 0 0 19.5 4
- ** BUILDING IDN BLD55
- ** BUILDING NAM NAP3c
- ** BUILDING REC 383655.6 6432667.8 7.0 12.0 0.0
- ** BUILDING BLD 0 0 0 19.5 4
- ** BUILDING IDN BLD84
- ** BUILDING NAM NAP3d
- ** BUILDING REC 383676.6 6432668.9 10.0 10.0 0.0
- ** BUILDING BLD 0 0 0 19.5 4
- ** BUILDING IDN BLD85
- ** BUILDING NAM NAP3e
- ** BUILDING REC 383623.6 6432663.1 56.0 5.0 0.0 ** BUILDING BLD 0 0 0 15.5 4
- ** BUILDING IDN BLD86
- ** BUILDING NAM PP2a
- ** BUILDING REC 384023.9 6432573.3 136.0 50.0 0.0
- ** BUILDING BLD 0 0 0 9 4
- ** BUILDING IDN BLD87
- ** BUILDING NAM PP2b
- ** BUILDING REC 384023.9 6432623.3 60.0 10.0 0.0 ** BUILDING BLD 0 0 0 9 4
- ** BUILDING IDN BLD88
- ** BUILDING NAM PP2c
- ** BUILDING REC 384023.9 6432633.3 53.0 15.0 0.0
- ** BUILDING BLD 0 0 0 9.5 4
- ** BUILDING IDN BLD89 ** BUILDING NAM PP2d
- ** BUILDING REC 384023.7 6432648.3 75.0 35.0 0.0
- ** BUILDING BLD 0 0 0 26.3 4
- ** BUILDING IDN BLD90
- ** BUILDING NAM PP2e ** BUILDING REC 384023.9 6432625.1 7.0 7.0 0.0
- ** BUILDING BLD 0 0 0 17.5 4
- ** BUILDING IDN BLD91
- ** BUILDING NAM PP2f
- ** BUILDING REC 384025.8 6432632.1 4.5 16.2 0.0
- ** BUILDING BLD 0 0 0 17.5 4
- ** BUILDING IDN BLD92
- ** BUILDING NAM PP2g
- ** BUILDING REC 384023.7 6432648.3 7.0 7.0 0.0 ** BUILDING BLD 0 0 0 25.8 4
- ** BUILDING IDN BLD93
- ** BUILDING NAM PP2h
- ** BUILDING REC 384046.1 6432626.1 9.0 9.0 0.0