



ERARING DEPOT

ENVIRONMENTAL MANAGEMENT PLAN





ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Index:

Section 2

Section 2.0	Index
Section 2.1	Incident Notification
Section 2.2	Incident Reporting
Section 2.3	Incident Response Flowchart
Section 2.4	Emergency Evacuation Plan
Section 2.5	Emergency Contact Numbers
Section 2.6	Eraring Emergency Response Map
Section 2.7	FAA Site Footprint
Section 2.8	Eraring Energy Contact Procedure
Section 2.9	Pollution Control Procedure
Section 2.10	Testing of Emergency Plan

Section 3

Section 3.0	Index
Section 3.1	FAA SH&E Policy
Section 3.2	Register of Hazardous Substances
Section 3.3	MSDS Register

Section 4

Distribution Plant

Section 4.0	Index
Section 4.1	Storage Silos
Section 4.2	Weighbridges
Section 4.3	Silo Filters
Section 4.4	Compressors
Section 4.5	Transport Lines
Section 4.6	Bulk Tankers Loading System
Section 4.7	Surface Water / Housekeeping / Spillages
Section 4.8	Silo High Level Alarm System
Section 4.9	MSDS Sheets
Section 4.10	Classifier
Section 4.11	Management and Disposal of rubbish

Section 5

Collection Plant

Section 5.0	Index
Section 5.1	Interim Plant
Section 5.2	Site Safety

Section 6

Site Induction / Site Safety / Contractors

Section 6.0	Index
Section 6.1	Eraring Energy Site Induction
Section 6.2	Flyash Australia Site Induction, Work Specific Induction
Section 6.3	Environmental Induction
Section 6.4	Contractors site induction & Insurance Details Flyash Australia Site



Section 7

EPA & Licences:

Section 7.0	Index
Section 7.1	EPA Licence
Section 7.2	EPA Policy

Section 8

Eraring Energy Reporting

Section 8.0	Index
Section 8.1	Eraring Energy Contact Procedure and Incident Reporting

Date:	Section #	Revision #	Reason / Comments
25/06/12	1.0	A/1	Change in legislation

ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

INDEX

	Section	Issue	Issue Date
Section Index	2.0	A/0	25-06-12
Incident Notification	2.1	A/0	25-06-12
Incident Response Procedure	2.2	A/0	25-06-12
Incident Response Flowchart	2.3	A/0	25-06-12
Incident Report Form	2.4	A/0	25-06-12
Emergency Contact Numbers	2.5	A/0	25-06-12
Emergency Evacuation Plan	2.6	A/0	25-06-12
FAA Site Footprint	2.7	A/0	25-06-12
EE Incident Contact Procedure	2.8	A/0	25-06-12
FAA Incident Control Procedure	2.9	A/0	25-06-12
Testing of Emergency Plan	2.10	A/0	25-06-12

Date:	Section #	Revision #	Reason / Comments
25-06-12	2.0	A/0	New Section

Incident Notification Procedure

PURPOSE

To define the FAA incident notification procedure for pollution incidents at the FAA Eraring depot

PROCEDURE

Step 1

- Call 000 first if the situation requires emergency services support

Step 2

- Call appropriate Regulatory Authority (EPA or Local Council)

Step 3

- Call EPA or ARA. (Appropriate Regulatory Authority)

Step 4

- Call Ministry of Health

Step 5

- Call Workcover

Step 6

- Call local authority (If not ARA)

Step 7

- Call Fire Brigade and Rescue NSW

This procedure is mandatory and must be adhered to even if you believe it's not required as they will decide on what action to take if any.

A written report must be sent to the EPA as follow up, the report must be available on the FAA website. The report must also be available to the public on request.

Date:	Section #	Revision #	Reason / Comments
25-06-12	2.1	A/0	New Section

Procedure for Testing of Emergency Plan

PURPOSE

To define the context of the Eraring Emergency Response Plan Testing & Frequency

PROCEDURE

- The plan will be testing as part of the existing Emergency Evacuation & Warden training for Eraring depot.
- The plan will be tested at least once in every 12 month period

This procedure is mandatory and must be adhered to, to ensure we FAA our EPA licence obligations .

Date:	Section #	Revision #	Reason / Comments
25-06-12	2.10	A/0	New Section

Incident Response Procedure

PURPOSE

To define the FAA incident response procedure for pollution incidents at the FAA Eraring depot

Contact details as per the Eraring depot Emergency contact listing

Responsible Person/s

- Operations Manager
- Team Leader
- Maintenance Supervisor
- Preventative Maintenance Manager

PROCEDURE

Step 1

- Call 000 Fire Brigade / Police / Ambulance first if the situation requires emergency services support
 - As per above

Step 2

- Call appropriate Regulatory Authority (EPA or Local Council)
 - As per above

Step 3

- Call EPA or ARA. (Appropriate Regulatory Authority)
 - As per above

Step 4

- Call Ministry of Health
 - As per above

Step 5

- Call Workcover
 - As per above

Step 6

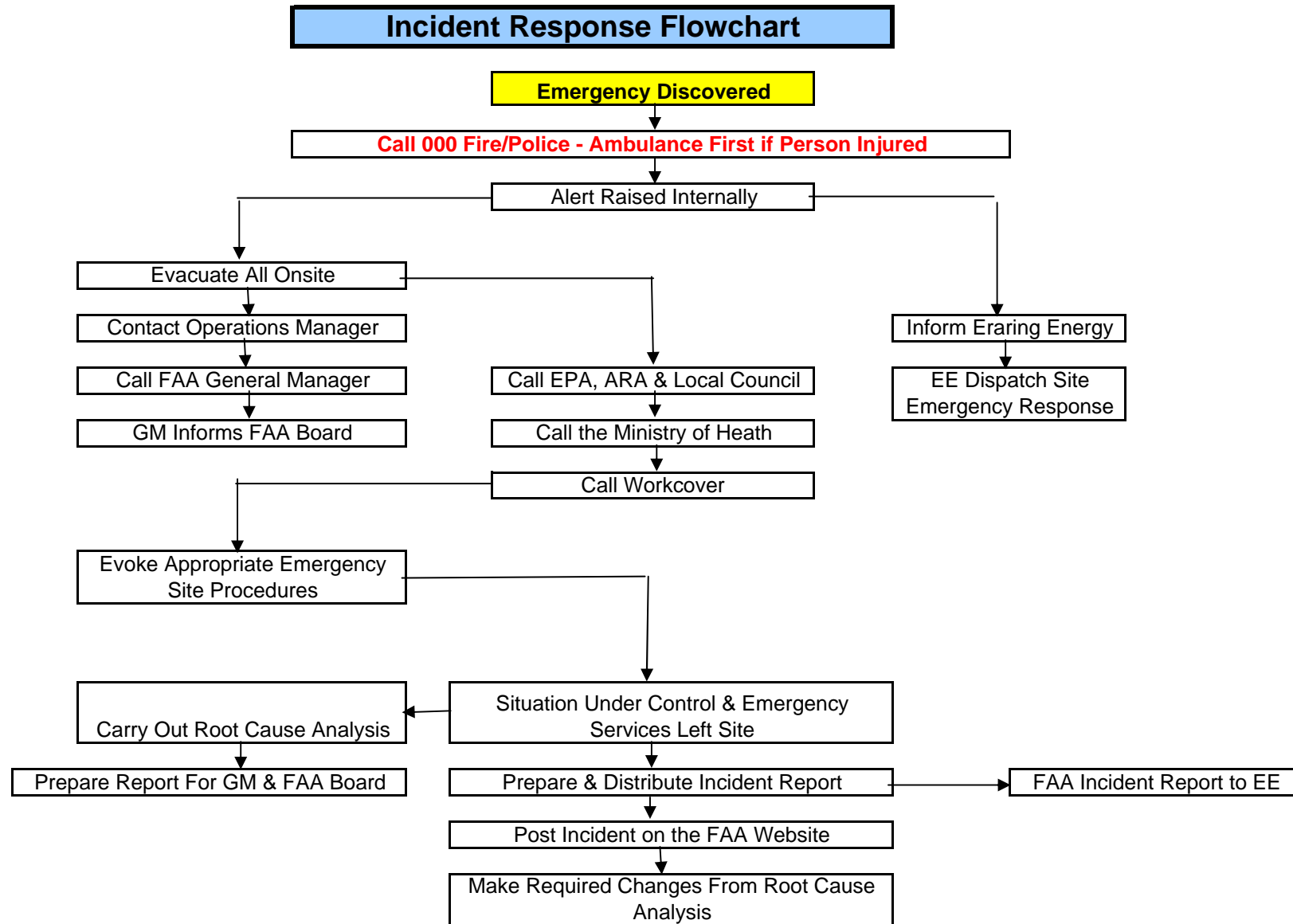
- Call local authority (If not ARA)
 - As per above

Step 7

- Call Fire Brigade and Rescue NSW
 - As per above

This procedure is mandatory and must be adhered to even if you believe it's not required as they will decide on what action to take if any.

Date:	Section #	Revision #	Reason / Comments
25-06-12	2.2	A/0	New Section



Date:	Section	Revision #	Reason / Comments
25-06-12	2.3	A/0	New Section

ENVIRONMENTAL/INCIDENT REPORT FORM

1. INCIDENT		Incident ID Code (office use) :	
Environmental Issue <input type="checkbox"/>	Injury/Illness <input type="checkbox"/>		
Date of Incident:	Time of Incident:	Site:	
Duration of Incident:			
Location of Incident:			
Nature of Incident:			
Estimated quantity, volume and concentration of pollutant :			
Nature of the pollutant:			
Describe circumstances in which the incident occurred:			
Cause of the incident:			

What action has been taken or proposed to be taken to deal with the incident, and any resulting pollutant:

What do you think can be done to prevent a re-occurrence of the incident:

What has been done to make the situation safe:

2. NOTIFYING PERSON DETAILS

Person Reporting Incident or Hazard

Employee <input type="checkbox"/>	Contractor <input type="checkbox"/>	Visitor <input type="checkbox"/>	Nil <input type="checkbox"/>
Surname:		Given Name:	
Contact Phone Numbers	Work:	Home:	Mobile:
Date of Birth:		Sex: Male <input type="checkbox"/> Female <input type="checkbox"/>	
Occupation:			

3. INJURY (This section is only to be completed if there has been an injury or illness)		
Detail the parts of the body injured or type of illness:		
Names of any Witnesses:		Contact Numbers:
Was Medical Treatment Required:	Yes <input type="checkbox"/> (if yes complete next line)	No <input type="checkbox"/>
On Site <input type="checkbox"/>	Doctors <input type="checkbox"/>	Hospital <input type="checkbox"/>
What treatment was given:		
Who was the incident reported to:	Date:	Time:
Did the person cease work following the injury:	Date:	Time:

4. REPORTING (office use)		
Complete as relevant who was notified:		
Report Scanned and e-mailed to: <input type="checkbox"/>	OHS Manager <input type="checkbox"/>	
Reported By:	Reported By:	
Date:	Date:	
Time:	Time:	
OHS Authority <input type="checkbox"/>	Environmental Agency <input type="checkbox"/>	Other: <input type="checkbox"/>
Reported By:	Reported By:	Reported By:
Reported To:	Reported To:	Reported To:
Date:	Date:	Date:
Time:	Time:	Time:
Reporting Notes:		

Date:	Section #	Revision #	Reason / Comments
25-06-12	2.4	A/0	New Section

Emergency Contact Numbers

FAA Media Liaison

- FAA General Manager 02 9587 8251
- Mobile 0401 895 614

Flyash Australia Contact Details

- Operations Manager 0402 303 552
- Team Leader 02439 733 622
- Maintenance Supervisor 0427 733 621
- Preventative Maintenance Manager 0427 733 618

Emergency Services

Fire Brigade/Police/Ambulance

000

NSW Fire Brigade

- Morisset 02 4973 34 66
- Toronto 02 49 59 12 65
- Wangi 0249 72 14 44

Police Morisset

0249 73 14 44

Police Toronto

02 49 50 36 99

Police Morisset General Enquiries

0249 73 14 44

Ministry of Health

02 9391 9000

State Emergency Services

- SES Lake Macquarie 13 25 00
- SES Cooranbong Unit 0249 77 32 33

Dora Creek Medical Centre

0249 73 18 77

- Mobile 0418 680 788

John Hunter Hospital

0249 21 30 00

Energy Australia (Emergency Services)

13 13 88

Gas – AGL

13 19 09

External Agencies

EPA 0249 08 68 00
EPA Licence Enquiries 02 999 55 000
EPA After Hours 0249 69 24 88
Lake Macquarie City Council (LMCC) 0249 21 04 20
LMCC Manager waste & emergency services 0249 73 32 93

Service Providers

- Electrical ATCE 0414 591 565
- Plumbing Ian Russell 0243 90 92 36
Mobile 0427 258 449

Poisons Information Centre

13 20 90

Yates Security: Control

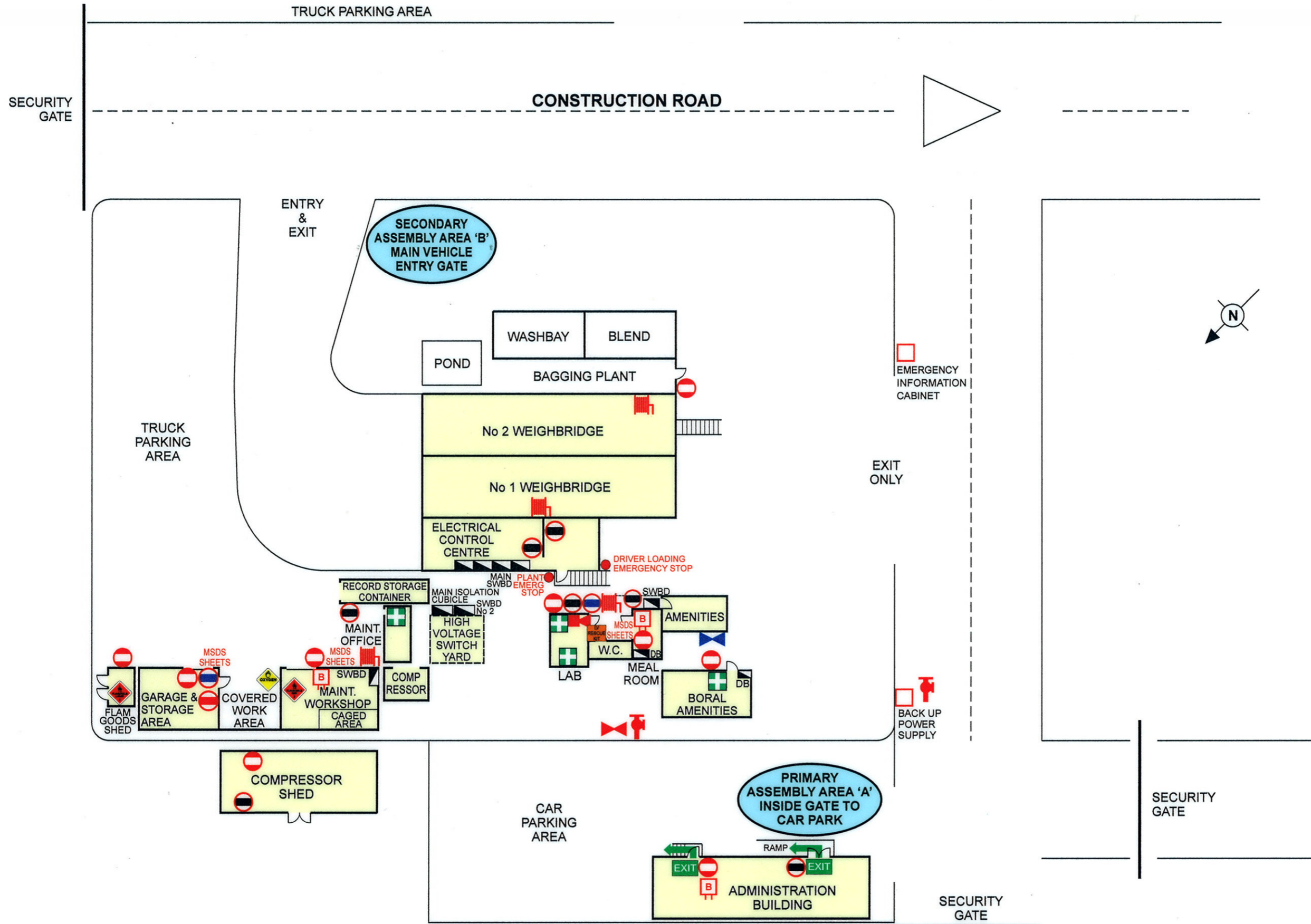
131 911

Yates Security: Gatehouse

0249 73 05 31

Date:	Section #	Revision #	Reason / Comments
25-06-12	2.5	A/0	New Section

EMERGENCY EVACUATION PLAN



LEGEND	
	WATER FIRE EXTINGUISHER
	FOAM FIRE EXTINGUISHER
	CO2 FIRE EXTINGUISHER
	DCP FIRE EXTINGUISHER
	WATER ISOLATION VALVE
	MAIN ISOLATION VALVE
	FIRST AID KIT
	SWITCH BOARD
	FLAMMABLE GAS 2
	FLAMMABLE LIQUID 3
	FIRE BLANKET
	OXYGEN
	FIRE HOSE REEL
	FIRE HYDRANT
	LOW VOLTAGE RESCUE KIT
	FIRE HYDRANT
	FIRE HYDRANT

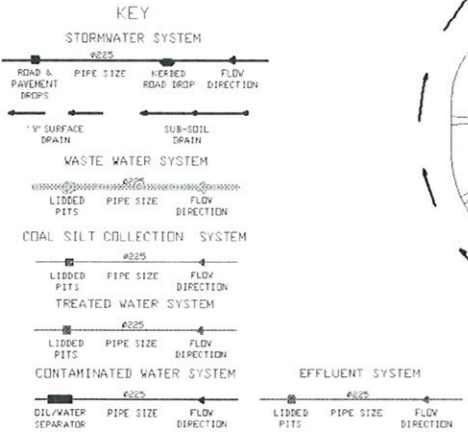
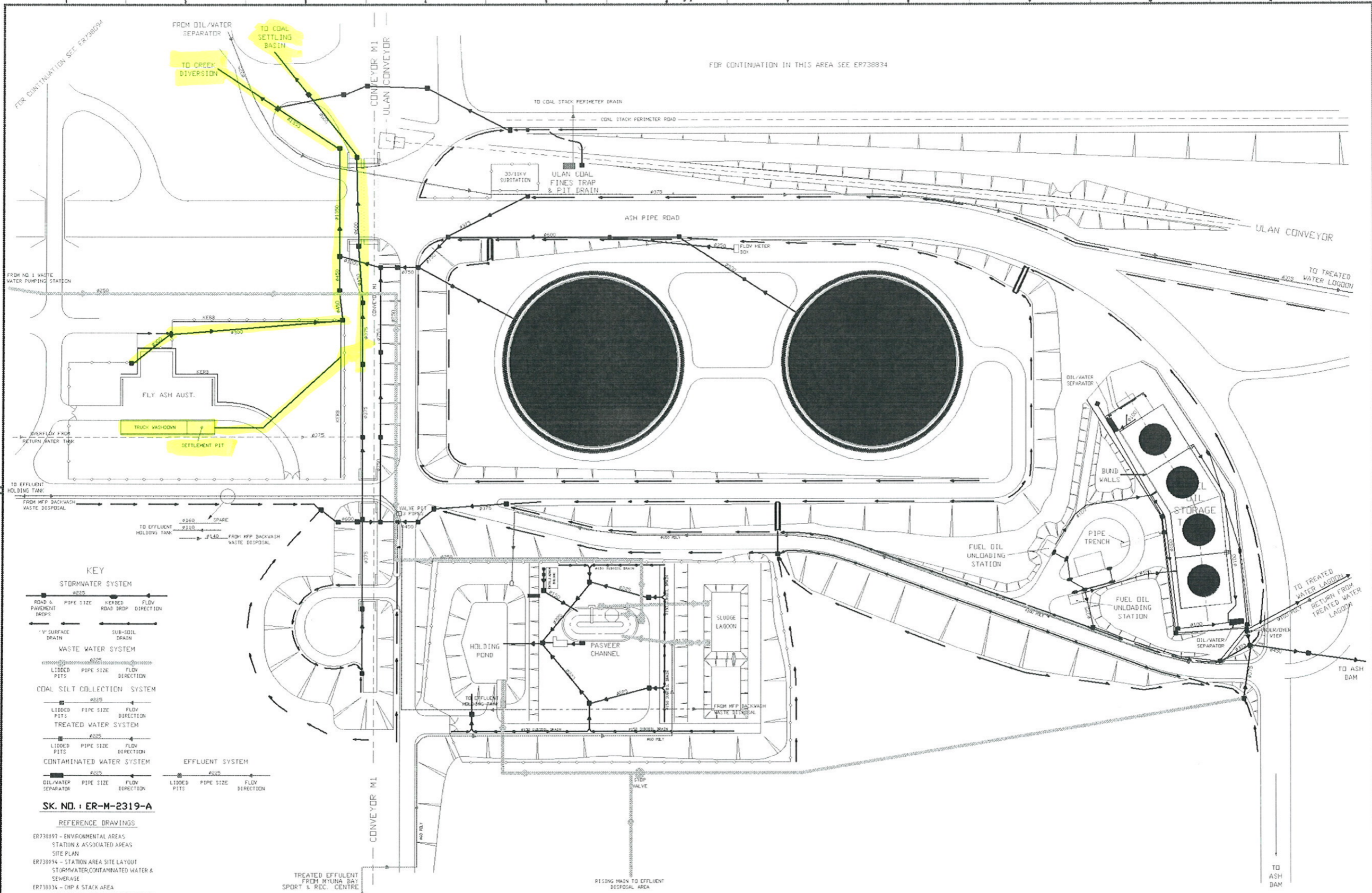


FLY ASH AUSTRALIA
ERARING PLANT
CONSTRUCTION ROAD
ERARING NSW

SURVEYED BY:



Phone: (02) 4358 2281 Mobile: 0410 432 711
 Email: firecom_services@bigpond.com
 Facsimile: (02) 4358 2284
 22 Agatha Avenue Lake Munmorah NSW 2259
 ABN: 62 131 193 292 JUNE 2011



SK. NO. | ER-M-2319-A

REFERENCE DRAWINGS

- ER738997 - ENVIRONMENTAL AREAS, STATION & ASSOCIATED AREAS SITE PLAN
- ER738994 - STATION AREA SITE LAYOUT
- ER738996 - STORMWATER, CONTAMINATED WATER & SEWERAGE
- ER738934 - CHP & STACK AREA STORMWATER, CONTAMINATED WATER & SEWERAGE

NOTE: THIS DRAWING BEST READ IN COLOUR

NO.	DATE	DESCRIPTION
01	15/05/20	ISSUED FOR PERMIT
02	21/05/20	ISSUED FOR PERMIT
03	21/05/20	ISSUED FOR PERMIT

© ERARING ENERGY
 EXCEPT FOR THE EXPRESSLY INDICATED AND SUBJECT TO THE CONDITIONS OF THE COPYRIGHT ACT, THIS DRAWING SHALL IN NO PART, OR IN ANY FORM, BE REPRODUCED, TRANSMITTED OR STORED IN A RETRIEVAL SYSTEM WITHOUT THE PRIOR WRITTEN PERMISSION OF ERARING ENERGY



CONTRACT NO.	BRVN
REVISION	
CHECKED BY	
DATE	
SCALE	

DESIGNED BY	APPROVED
CHECKED BY	DATE
SCALE	PROJECT NO.
PROJECT NAME	PROJECT LOCATION
PROJECT NO.	PROJECT LOCATION
PROJECT NAME	PROJECT LOCATION

PROJECT NO.	PROJECT LOCATION
PROJECT NAME	PROJECT LOCATION
PROJECT NO.	PROJECT LOCATION
PROJECT NAME	PROJECT LOCATION



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Eraring Energy Incident Contact Procedure

Contact Procedure

Flyash Australia's contact procedure for informing Eraring Energy of environmental problems shall be as follows.

1. Any spillage of flyash, oil etc shall be reported immediately to Eraring Energy's Shift Engineer.
2. Eraring Energy's standard Incident report form shall be filled in as soon as possible and sent to the Environmental Officer. (Or Section)
3. FAA will also supply an incident report using the FAA standard template, this will be distributed internally and to EE

Contact List

Eraring Energy contact list is as follows.

- Environmental Section
1. Mick Cooper (Environmental Officer)
Phone: 02 4973 0525
Or Pax Phone 6525
 2. Shift Engineer
Phone: 02 4973 0402
Fax: 02 4973 0496
Mobile: 0409 917 391
Or Pax Phone 6402
 3. FAA Contracts Administrator
Phone: 02 4973 0521
Or Pax Phone 6521

Date:	Section #	Revision #	Reason / Comments
2012	2.8	A/1	Change in legislation

Pollution Control Procedure

PURPOSE

To define the FAA procedure for control & minimisation of pollution incidents at the FAA Eraring depot

PROCEDURE

Step 1

- As soon as possible after an incident has been identified, shutdown plant & equipment causing the environmental issue, and or shutdown the entire production plant
- Evacuate the site to one of the two Emergency evacuation areas as soon as possible, and ensure you have identified all people who were on the FAA footprint at the time of the incident
- If you cannot find all people who were on the FAA footprint, and it is not safe to enter effected area, do not do so
- If possible remove bulk tankers from weighbridges if it is safe to do so, if this area is effected, or likely to be effected

Step 2

- Call 000 Fire Brigade / Police / Ambulance first if the situation requires emergency services support

Step 3

- Inform FAA Operations Manager as soon as possible, to ensure appropriate action is taken to manage, control, and minimise the pollution incident impact

Step 4

- Inform Eraring Energy Shift Manager, FAA General Manager, & Shareholder companies as soon as possible

Step 5

- Call appropriate Regulatory Authorities as soon as possible, as per Notification Procedure

Step 6

- Clean up hazard and return plant to a safe and controlled condition

Step 7

- Inform Eraring Energy Shift Manager, FAA General Manager, & Shareholder companies when cleanup is complete

Step 8

- Return plant to operational status, test and prove safe prior to plant being returned to normal production status

Step 8

- Prepare & distribute incident reports as soon as possible

Step 9

- Ensure incident reports are posted on the FAA website

Step 10

- Carry out Root Cause Analysis to identify the cause of the incident, and put appropriate measures in place to ensure a similar incident cannot take place

This procedure is mandatory and must be adhered to even if you believe it's not required, to ensure we meet our EPA licence obligations .

Date:	Section #	Revision #	Reason / Comments
25-06-12	2.9	A/0	New Section

ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

INDEX

	Section	Issue	Issue Date
Section Index	3.0	A/0	25-06-12
FAA SH&E Policy	3.1	A/0	25-06-12
Register Hazardous Substances	3.2	A/0	25-06-12
MSDS Register	3.3	A/0	25-06-12

Date:	Section #	Revision #	Reason / Comments
25-06-12	3.0	A/0	New Section

SAFETY HEALTH & ENVIRONMENTAL POLICY

The Occupational Health, Safety and Welfare of all persons employed by Fly Ash Australia along with contractors, visitors, our customers and the environment is considered to be of the utmost importance and of the highest priority.

Resources in line with the importance attached to health, safety & the environment will be made available to comply with all relevant Acts and Regulations and to ensure that the workplace is safe and without risk to health and our processes do not adversely impact on the natural environment.

Managements' Responsibility

Managers are responsible for ensuring that all practical steps are taken to provide, maintain and continuously improve a safe and healthy working environment, including:

- Providing & maintaining safe plant & equipment and ensuring it is maintained in a safe condition
- Providing & arranging ongoing training, instruction & supervision of employees and contractors
- Recording & investigating incidents, and where necessary implementing effective and timely corrective actions
- Consulting with employees & contractors & ensuring ongoing monitoring of their health & safety
- Establishing targets and objectives to benchmark safety and environmental performance within the organisation.

Employee, Contractor and Visitor Responsibility

All employees, contractors & visitors are required to cooperate with the SHE Policy and Procedures to ensure their own health and safety and the health and safety of others in the workplace and must:

- Perform work in a safe manner
- Not misuse or interfere with anything provided in the interest of health & safety and environmental compliance
- Cooperate with management in the implementation of health & safety and environmental initiatives, including training, health monitoring, etc.
- Report workplace safety and environmental hazards and incidents immediately.

Safety, Health & Environmental Program

In order to implement the general provisions of this policy, a program of activities and procedures will be set up, continually updated and effectively carried out. The program will relate to all aspects of safety, health & environment including:

- As a minimum comply with all legal requirements, going beyond these requirements where necessary to meet corporate goals
- Assess the potential safety, health & environmental effects of our activities and integrate these considerations into our planning, operational decisions and processes, ensuring that the way we conduct our operations does not put at risk the health & safety of any person or impact negatively on our environment
- Provide a safe and health workplace for employees, contractors and visitors
- Design, develop and operate our facilities with a view to reducing the impact of our operations; providing efficient use of energy, water and other resources; preventing pollution, limiting waste generation and disposal; and where waste must be disposed of, doing so responsibly
- Strive for continuous improvement in our safety, health & environmental performance through the development of objectives and targets, and the monitoring and review of that performance
- Communicate and consult with our employees and contractors and other interested parties in relation to health, safety and environmental issues
- Promote the well-being of employees and the responsible care of the environment
- Advise and train our employees & contractors as necessary to meet our safety, health & environmental undertakings

No job is so important as to justify putting a person's Health and Safety in jeopardy



Bill Sioulas (General Manager)



Date

ERARING DEPOT

REGISTER OF HAZARDOUS SUBSTANCES

Chemical Description	Location	Amount	MSDS Sheet Onsite
Diesel Fuel	Dangerous goods shed	40 litres	✓
Household Kerosene	Dangerous goods shed	20 litres	✓
Methylated Spirits	Dangerous goods shed	20 litres	✓
Cornna Compressor Oil	Dangerous goods shed	20 litres	✓
Grey Primer Paint	Dangerous goods shed	4 litres	✓
Black Enamel Paint	Dangerous goods shed	4 litres	✓
White Paint Tint Base	Dangerous goods shed	4 litres	✓
White Paint Tint Clear	Dangerous goods shed	4 litres	✓
Epoxy Primer Part A	Dangerous goods shed	4 litres	✓
Epoxy Primer Part B	Dangerous goods shed	2 litres	✓
Assorted Paints	Dangerous goods shed	5 litres	✓
Cabots Wood Preservative	Dangerous goods shed	4 litres	✓
Sun Master Gloss	Dangerous goods shed	2 litres	✓
Lacnam Grey Paint	Dangerous goods shed	4 litres	✓
Omala Industrial Gear Oil	Dangerous goods shed	20 litres	✓
Industrial Thinner	Dangerous goods shed	10 litres	✓
Weed killer	Dangerous goods shed	4 litres	✓

INVENTORY OF POTENTIALLY HAZARDOUS SUBSTANCES

IDENTIFICATION

Company: Flyash Australia Pty Ltd
Location: Eraring Plant
Compiled By: Gary Peterson

Date Compiled: 22-May-2000
Review Compiled: 15-Mar-2012
Reviewed By: Gary Peterson

Ref No:	Product Name / Chemical Name	Supplier	Location Stored	Quantity Usual / Max	Uses	MSDS Exp Date	Hazardous Substance	
							Yes / No	Hazcem
	All Purpose Thinner	Septone Products 44 Aquarium Ave, Hemmant 4174	Paint Locker		Thinner	Current	Yes	3[YE]
	Aquastar	PCT International Pty Ltd Unit 1 / 74 Murdoch Circ Acacia Ridge 4110 Q	Open Area		Termiticide & Insecticide	10-Sep-2014	Yes	N / A
	Araldite 5 Minute Epoxy Resin Pts A & B	Selleys Australia 1 Gow St Padstow NSW 2211	Workshop Caged Area.	5 Kg	Adhesive	30-Apr-2014	Yes	N / A
	Araldite 506 Epoxy Resin	Sigma-Aldrich 3050 Spruce St St Louis MO USA	Workshop Caged Area.		Adhesive	28-Jul-2015	Yes	N / A
	Cement	Cement Australia Level 19 111 Pacific Hwy North Sydney 2060				7-Apr-2016	Yes	N / A
	Cleaner Ali Brite Aluminium Cleaner	Septone Products 44 Aquarium Ave, Hemmant 4174	Workshop Caged Area.	1 Ltr	Clean Depac Control Boxes	1-Oct-2015	Yes	2[X]E
	Cleaner CRC CO Contact Cleaner	CRC Industries (Aust) Ltd 9 Gladstone Rd, Castle Hill 2154	Workshop Caged Area.	350 gm	Electronics Cleaner	31-May-2015	No	2[Y]
	Cleaner CRC Glass Cleaner	CRC Industries (Aust) Ltd 9 Gladstone Rd, Castle Hill 2154	Workshop Caged Area.	6 x 500 gm	Glass and Window Cleaner	1-Apr-2015	No	N / A
	Cleaner Deb Suprega Plus	Deb Aust 73 Alfred Rd, Chipping Norton 2170	Change Room	24 x 1 Ltr	Hand Cleaner	27-Jan-2014	No	N / A
	Cleaner Kitten Glo Wash	CRC Industries (Aust) Ltd 9 Gladstone Rd, Castle Hill 2154	Change Room	750 ml	Site Vehicle	1-Apr-2015	No	N / A
	Cleaner Lens MSA Aerosol	MSA (Aust) Pty Ltd 137 Gilba Road Girraween NSW 2145	Workshop Caged Area.	150 gm	Glasses Cleaner MSA 220112	1-Jun-2013	No	2[Y]
	Cleaner Turtle Car Wax	Holt Lloyd Aust Pty Ltd 15 Hudson Ave, Castle Hill 2154	Change Room	750 ml	Motor Vehicle	6-Jun-2015	Yes	N / A
	Cleaner White King Bleach	Kiwi Brands Pty Ltd 610 Heatherton Rd, Clayton 3169	Change Room	2.5 Ltr	Bleach	28-Feb-2013	Yes	N / A
	Clear Shot	Mantek 7 Ralph Street Alexandria 2015	Workshop Caged Area.		Rubberised Coating	Current	Yes	2[Y]
	Conrac All-Weather Blox	Bell Laboratories Inc 3699 Kinsmad Bvd Madison WI USA	Open Area		Rodent Bait	19-May-2016	Yes	N / A
	Creosote Wood Preserving Oil	Glendale Chemical Products Pty Ltd 1187 The Horsley Drv, Wetherill Pk	Workshop Caged Area.	20 Ltr	Protective Coating for timber.	24-Jun-2015	Yes	N / A
	Degreaser CRC Lectra Clean	CRC Industries (Aust) Ltd 9 Gladstone Rd, Castle Hill 2154	Workshop Caged Area.	400 gm	Degreaser	1-Apr-2015	No	2[Y]
	Degreaser Jizer Water Rinsable Degreaser	Deb Aust Pty Ltd 170 Beaconsfield Rd, Wetherill Park	Workshop Caged Area.		Degrease Compressors	1-Jul-2013	No	N / A

INVENTORY OF POTENTIALLY HAZARDOUS SUBSTANCES

IDENTIFICATION

Company: Flyash Australia Pty Ltd
Location: Eraring Plant
Compiled By: Gary Peterson

Date Compiled: 22-May-2000
Review Compiled: 15-Mar-2012
Reviewed By: Gary Peterson

Ref No:	Product Name / Chemical Name	Supplier	Location Stored	Quantity Usual / Max	Uses	MSDS Exp Date	Hazardous Substance	
							Yes / No	Hazcem
	Detergent Micro Air 940	BASF Construction Chemicals 11 Stanton Rd, Seven Hills 2147	Lab	20 Ltr	Foam Index Testing	15-Dec-2016	No	N / A
	Diesel Fuel	Shell 1 Spring St, Melbourne 3000	Workshop Caged Area.	20 Ltr	Fuel for diesel engines	12-Apr-2015	Yes	N / A
	Dy-Mark Linemarking Aerosol Colours Lead Free	Dy-Mark (Aust) Pty Ltd 89 Formation Street Wacol Qld 4076	Workshop Caged Area.		Paint	7-Sep-2014	Yes	2[Y]
	Epoxy Thinner	Dulux Australia McNaughton Rd, Clayton Vic 3168	Workshop Caged Area.	20 Ltr	To thin or reduce paint	22-Apr-2015	Yes	3[Y]
	Fly Ash Eraring Power Station	Flyash Australia Construction Road Eraring 2264				25-Jul-2015	No	N / A
	Fly Ash Flinders Power Station	Flyash Australia Power Station Road Port Augusta SA				25-Jul-2015	Yes	N / A
	Fly Ash Mt Piper Power Station	Flyash Australia Boulder Road Portland 2847				25-Jul-2015	No	N / A
	Fly Ash Bayswater Power Station	Flyash Australia River Road Bayswater 2333				25-Jul-2015	Yes	N / A
	Fly Ash Collie Power Station	Flyash Australia Boyshome Road Collie WA 6225				25-Jul-2015	Yes	N / A
	Galmet Rustpaint Aerosol	Morgan Chemical Products 100 Hassall St, Wetherill Park 2164	Workshop Caged Area.		Anti Corrosive paint for steel	21-Dec-2012	Yes	2[Y]
	Galmet Cold Gal Std Aerosol Cold Gal	Morgan Chemical Products 100 Hassall St, Wetherill Park 2164	Workshop Caged Area.	1 x 350 gm	Anti Corrosive paint for steel	31-Jul-2012	Yes	2[Y]
	Galmet Duragal Aerosol	ITW Polymers & Fluids Pty Ltd 100 Hassall St, Wetherill Park 2164	Workshop Caged Area.		Paint	31-Jul-2012	Yes	3[YE]
	Gas Acetylene Dissolved Compressed	BOC Gases 799 Pacific Hwy, Chatswood 2067	Workshop Caged Area.	3 x Size G	Welding and Flame Cutting	17-Mar-2015	No	2[S]E
	Gas Argon Compressed	BOC Gases 799 Pacific Hwy, Chatswood 2067	Workshop Caged Area.	1 x Size E	Welding	5-Jul-2015	No	2[T]
	Gas LPG (Propane) Gas Bottle		Workshop Caged Area.	9 Kg	Site Functions	26-Mar-2015	No	2[W]E
	Gas Oxygen Compressed	BOC Gases 799 Pacific Hwy, Chatswood 2067	Workshop Caged Area.	2 x Size G	Welding and Flame Cutting	25-May-2015	No	2[S]
	Glade Air Freshener	S C Johnson & Sons 160 Epping Rd, Lane Cove 2066	Change Room	3 x 400 gm		1-Nov-2013	No	N / A
	Glen 20 Air Spray Disinfectant	Reckitt & Coleman Products 33 Hope St, Ermington 2115	Change Room	2 x 150 gm		1-Apr-2014	Yes	N / A
	Grease Alvania RL 2 Grease	Shell 1 Spring St, Melbourne 3000	Workshop Caged Area.	24 x 450 gm	General Lubricant	13-May-2013	No	N / A

INVENTORY OF POTENTIALLY HAZARDOUS SUBSTANCES
IDENTIFICATION

Company: Flyash Australia Pty Ltd
Location: Eraring Plant
Compiled By: Gary Peterson

Date Compiled: 22-May-2000
Review Compiled: 15-Mar-2012
Reviewed By: Gary Peterson

Ref No:	Product Name / Chemical Name	Supplier	Location Stored	Quantity Usual / Max	Uses	MSDS Exp Date	Hazardous Substance	
							Yes / No	Hazcem
	Grease Castrol LMM Molybdenum Disulphide	Castrol Aust McCredie Rd, Guildford 2161	Workshop Caged Area.	2.5 Kg	Grease	8-Oct-2012	No	N / A
	Grease Rocol Sapphire Hi-Pressure	Morganite Aust Pty Ltd 65 Burke Rd, Alexandria 2015	Workshop Caged Area.	1 x 500 gm	Bearing Grease - Replaces MTS1000	16-Jan-2013	No	N / A
	Hymenophor Granular Ant bait	Ensystem Australasia Pty Ltd 2/47 Day street North Silverwater	Open Area		Ant Bait	1-Feb-2014	Yes	N / A
	Insecticide Bushman Plus Insect Repellent	Nth Qld Laboratories Pty Ltd 63 Koppen Tce, Cairns 4870	Change Room	2 x 150 gm	Personal Insect Repellent	18-Jan-2015	Yes	N / A
	Insecticide Raid Insect Spray	S C Johnson & Sons 160 Epping Rd, Lane Cove 2066	Change Room	4 x 450 gm	Surface Insect Spray	1-Jul-2012	Yes	N / A
	Loctite 262 Threadlocker Super Stud Lock	Loctite Australia Pty Ltd 3 Endeavour Rd, Caringbah 2229	Workshop Caged Area.	150 ml	Lock and Seal Threaded Fasteners	16-Aug-2012	Yes	N / A
	Loctite 290 Super Wick-In	Loctite Australia Pty Ltd 3 Endeavour Rd, Caringbah 2229	Workshop Caged Area.	150 ml		20-May-2013	Yes	N / A
	Loctite 567 Thread Sealant	Loctite Australia Pty Ltd 3 Endeavour Rd, Caringbah 2229	Workshop Caged Area.	250 ml	Gasketing Compound	14-Jul-2015	Yes	N / A
	Loctite 660 Quick Metal Retaining Compound	Loctite Australia Pty Ltd 3 Endeavour Rd, Caringbah 2229	Workshop Caged Area.		Repair worn machinery parts	28-May-2013	No	N / A
	Lubricant CRC 5.56 Penetrant Lubricant	CRC Industries (Aust) Ltd 9 Gladstone Rd, Castle Hill 2154	Workshop Caged Area.	2 Ltr	Lubricant	1-Apr-2015	No	2[Y]
	Lubricant Molykote Longterm W2	Dow Corning 4 Ray Rd, Epping 2121	Workshop Caged Area.	1 x 500 gm	Lubricant	17-Aug-2015	No	N / A
	Lubricant Molykote P-74 Paste	Dow Corning 4 Ray Rd, Epping 2121	Workshop Caged Area.	1 x 500 gm	Lubricant	4-Aug-2015	No	N / A
	Lubricant Molykote BR 2 Plus	Dow Corning 4 Ray Rd, Epping 2121	Workshop Caged Area.	3 x 450 gm	Lubricant	14-Sep-2015	No	N / A
	Lubricant WD-40 Aerosol Penetrant Lubricant	WD-40 Company (Aust) Pty Ltd 9 Williamson Rd, Ingleburn 2565	Workshop Caged Area.		Lubricant, Penetrant Displace Moisture	15-May-2014	Yes	2[Y]
	Lubricant WD-40 Bulk Penetrant Lubricant	WD-40 Company (Aust) Pty Ltd 9 Williamson Rd, Ingleburn 2565	Workshop Caged Area.		Lubricant, Penetrant Displace Moisture	11-Jan-2015	Yes	3[Y]
	MB-VR Standard	Admixture Systems NSW Bruno Dsouza Business Manager	Control Room		Air Entrainment TEST	26-Feb-2014	No	N / A
	Methylated Spirits	Pylon Chemicals Pty Ltd 6 Margate St, Botany 2019	Workshop Caged Area.	40 Ltr	Mastersizer Testing	1-Mar-2015	No	2[Y]E
	Microash Ultrafine Fly Ash	FAA Bayswater	Silos P1/P2		Product	28-Oct-2016	Yes	N / A
	Mobil Anti Freeze / Anti Boil	Mobil Oil Aust Pty Ltd 417 St Kilda Rd, Melbourne 3000	Workshop Caged Area.	1 Ltr	Site Vehicle	21-Aug-2012	Yes	N / A

INVENTORY OF POTENTIALLY HAZARDOUS SUBSTANCES

IDENTIFICATION

Company: Flyash Australia Pty Ltd
Location: Eraring Plant
Compiled By: Gary Peterson

Date Compiled: 22-May-2000
Review Compiled: 15-Mar-2012
Reviewed By: Gary Peterson

Ref No:	Product Name / Chemical Name	Supplier	Location Stored	Quantity Usual / Max	Uses	MSDS Exp Date	Hazardous Substance	
							Yes / No	Hazcem
	Mr Sheen Waterguard Aerosol	Reckitt Benckiser Pty Ltd 44 Warf Road West Ryde NSW 2114	Workshop Caged Area.		Furniture Polish	1-Feb-2013	No	N / A
	Oil Corena S2P 68 Recip Compressor	Shell 1 Spring St, Melbourne 3000	Workshop Caged Area.	20 Ltr	Lubrication for Recip Compressors	1-Sep-2015	No	N / A
	Oil Engine 2 Stroke Oil	Mobil Oil Australia 2 City Rd, South Melbourne 3205	Workshop Caged Area.	1 Ltr	Two Stroke Engine Oil Edge Trimmer	20-Jul-2013	No	N / A
	Oil Engine 4 Stroke SAE 30	Mobil Oil Australia 2 City Rd, South Melbourne 3205	Workshop Caged Area.	5 Ltr	Edge Trimmer	1-Mar-2014	No	N / A
	Oil Mobil Delvac 1330	Mobil Oil Australia 2 City Rd, South Melbourne 3205	Workshop Caged Area.	20 Ltr	Transmission Oil	8-Dec-2015	Yes	N / A
	Oil Mobil Super XHP 15W-40	Mobil Oil Aust Pty Ltd 417 St Kilda Rd, Melbourne 3000	Workshop Caged Area.	5 Ltr	Site Vehicle	21-Apr-2013	No	N / A
	Oil Mobil Motor 20W-50	Mobil Oil Aust Pty Ltd 417 St Kilda Rd, Melbourne 3000	Workshop Caged Area.	4 Ltr	Site Vehicle	30-Apr-2014	No	N / A
	Oil Spirax A 85W-140	Shell 1 Spring St, Melbourne 3000	Workshop Caged Area.	20 Ltr	Gear Oil	Current	No	N / A
	Oil Tellus 32 Anti Wear Hydraulic Oil	Shell 1 Spring St, Melbourne 3000	Workshop Caged Area.	20 Ltr	General Purpose Hydraulic Oil	13-Feb-2014	No	N / A
	Oil Tellus T 68 Hydraulic Oil	Shell 1 Spring St, Melbourne 3000	Workshop Caged Area.	20 Ltr	Very high Viscosity index Hydraulic Oil	Current	No	N / A
	Paint Thinner	Wattyl Pty Ltd 48 Walker St, Canada Bay 2046	Paint Locker	20 Ltr	To thin or reduce paint	28-Oct-2015	Yes	3[Y]
	Paint Thinners & Turps	Resene Paints (Aust) Ltd 457 Production Ave, Ernest Jct 4214	Paint Locker		To thin or reduce paint	9-Jun-2014	Yes	3[Y]
	Paint Amerlock 400 Part A Epoxy Coating	Dulux Australia McNaughton Rd, Clayton Vic 3168	Paint Locker	2 x 3.2 Ltr	Protective Coating Applied by Spray	Current	Yes	3[Y]
	Paint Amerlock 400 Part B Hardener	Dulux Australia McNaughton Rd, Clayton Vic 3168	Paint Locker	2 x 2 Ltr	Protective Coating Applied by Spray	Current	Yes	3[Y]
	Paint Devcon Fast Dry Epoxy Hardener	ITW Polymers & Fluids 100 Hassall St Wetherill Park NSW	Paint Locker	0.15 kg		20-Sep-2012	No	N / A
	Paint Devcon Fast Drying Epoxy Resin	ITW Polymers & Fluids 100 Hassall St Wetherill Park NSW	Paint Locker	1.5 kg	Repair worn steelwork	20-Sep-2012	Yes	N / A
	Paint Devoe Pre-Prime 167 Base	Resene Paints (Aust) Ltd 457 Production Ave, Ernest Jct 4214	Paint Locker	4 Ltr	Epoxy Paint 2 Pack	27-Mar-2014	Yes	2[X]
	Paint Devoe Bar-Rust 236 Part B	Resene Paints (Aust) Ltd 457 Production Ave, Ernest Jct 4214	Paint Locker		High Performance Primer	8-Jul-2014	Yes	3[Y]E
	Paint Devoe Bar-Rust 236 Pt A	Resene Paints (Aust) Ltd 457 Production Ave, Ernest Jct 4214	Paint Locker	4 Ltr	Epoxy Paint 2 Pack	26-May-2016	Yes	3[Y]

INVENTORY OF POTENTIALLY HAZARDOUS SUBSTANCES

IDENTIFICATION

Company: Flyash Australia Pty Ltd
Location: Eraring Plant
Compiled By: Gary Peterson

Date Compiled: 22-May-2000
Review Compiled: 15-Mar-2012
Reviewed By: Gary Peterson

Ref No:	Product Name / Chemical Name	Supplier	Location Stored	Quantity Usual / Max	Uses	MSDS Exp Date	Hazardous Substance	
							Yes / No	Hazcem
	Paint Devoe Pre-Prime 167 Converter	Resene Paints (Aust) Ltd 457 Production Ave, Ernest Jnct 4214	Paint Locker		High Performance Coating 2 Pack	31-Mar-2014	Yes	3[Y]E
	Paint Dulux Durebild STE Part A	Dulux Australia McNaughton Rd, Clayton Vic 3168	Paint Locker	2 x 3.2 Ltr	Protective Coating Applied by Spray	24-Jul-2013	Yes	3[Y]
	Paint Dulux Durebild STE Std Part B	Dulux Australia McNaughton Rd, Clayton Vic 3168	Paint Locker	2 x 3.2 Ltr	Protective Coating Applied by Spray	19-Mar-2013	Yes	2W
	Paint Dulux Durepon P14 Part A	Dulux Australia McNaughton Rd, Clayton Vic 3168	Paint Locker	0.8 Ltr	Paint	14-Dec-2014	Yes	3[Y]E
	Paint Dulux Luxathane R Part A	BPA Industries Pty Ltd Alfred St, Rhodes 2138	Paint Locker	2 x 3.2 Ltr		20-Jul-2015	Yes	3[Y]
	Paint Dulux Zinc Rich 1P	Dulux Australia McNaughton Rd, Clayton Vic 3168	Paint Locker	4 Ltr	Paint	3-Aug-2014	Yes	3[Y]E
	Paint Dulux Luxathane R Std Part B	BPA Industries Pty Ltd Alfred St, Rhodes 2138	Paint Locker	2 x 0.8 Ltr		20-Jul-2015	Yes	3[Y]E
	Paint Dulux Weathershield Roof	Dulux Australia McNaughton Rd, Clayton Vic 3168	Paint Locker	10 Ltr		3-Apr-2015	No	N / A
	Paint Dulux Durepon P14 Part B	Dulux Australia McNaughton Rd, Clayton Vic 3168	Paint Locker	0.8 Ltr	Paint	8-Sep-2014	Yes	3[Y]E
	Paint Duralex Sun Master Gloss	Duralex Australia 3-5 Muriel Ave, Rydalmere 2116	Paint Locker	2 Ltr	Paint	26-May-2013	No	N / A
	Paint Duralex Sun Master Low Sheen	Duralex Australia 3-5 Muriel Ave, Rydalmere 2116	Paint Locker	2 Ltr	Paint	26-May-2013	No	N / A
	Paint Lacnam Key-Coat 260	Lacnam Paints Pty Ltd 78 Mandoon Rd, Girraween 2145	Paint Locker	4 Ltr	Paint Spraying Enamel	8-Sep-2013	Yes	3[Y]E
	Paint Lacnam 720 ISO-Free AE Part A	Lacnam Paints Pty Ltd 78 Mandoon Rd, Girraween 2145	Paint Locker	4 Ltr	Paint Spraying Enamel	7-Jan-2014	Yes	3[Y]E
	Paint Lacnam 720 ISO-Free AE Part B	Lacnam Paints Pty Ltd 78 Mandoon Rd, Girraween 2145	Paint Locker	2 Ltr	Paint Spraying Enamel	20-Jan-2013	Yes	3[Y]E
	Paint Lacnam Enamel 300 RD	Lacnam Paints Pty Ltd 78 Mandoon Rd, Girraween 2145	Paint Locker	4 Ltr	Paint Spraying Enamel	11-Aug-2013	Yes	3[Y]E
	Paint Lacnam Enamel 390	Lacnam Paints Pty Ltd 78 Mandoon Rd, Girraween 2145	Paint Locker	4 Ltr	Paint Spraying Enamel	4-Mar-2014	Yes	3[Y]E
	Paint Lacnam Enamel Thinner T102	Lacnam Paints Pty Ltd 78 Mandoon Rd, Girraween 2145	Paint Locker	4 Ltr	Paint Spraying Enamel	13-Feb-2014	Yes	3[Y]E
	Paint Lacnam Keycoat Thinner T166	Lacnam Paints Pty Ltd 78 Mandoon Rd, Girraween 2145	Paint Locker	4 Ltr	Paint Spraying Enamel	2-Jul-2013	Yes	3[Y]E
	Paint Paracryl IFC Part A Epoxy Paint	Wattyl Vic Grainger's Rd, West Footscray 3012	Paint Locker		Solvent based resin coating	18-Mar-2013	Yes	3[Y]

INVENTORY OF POTENTIALLY HAZARDOUS SUBSTANCES

IDENTIFICATION

Company: Flyash Australia Pty Ltd
Location: Eraring Plant
Compiled By: Gary Peterson

Date Compiled: 22-May-2000
Review Compiled: 15-Mar-2012
Reviewed By: Gary Peterson

Ref No:	Product Name / Chemical Name	Supplier	Location Stored	Quantity Usual / Max	Uses	MSDS Exp Date	Hazardous Substance	
							Yes / No	Hazcem
	Paint Paracryl IFC Part B Hardener	Wattyl Vic Grainger's Rd, West Footscray 3012	Paint Locker		Hardener	18-Mar-2013	No	3[Y]
	Paint Watty Killrust Cold Galvit	Wattyl Pty Ltd 48 Walker St, Canada Bay 2046	Paint Locker	500 ml		16-Sep-2013	Yes	3[Y]
	Print Cartridge C7115A-X	Office Choice 1/10 O'Hart Close Charmhaven 2263	Main Office		HP Laserjet 1200 Series	9-Jul-2015	No	N / A
	Print cartridge Q2613A-X	Re Tone 17a Banksia Drive Byron Bay 2481	Main Office		HP Laserjet 1300 Series	3-Aug-2015	No	N / A
	Rocol (Epirez) Safe Step 100	ITW Polymers & Fluids Pty Ltd 100 Hassall St, Wetherill Park 2164	Workshop Caged Area.	4 Ltr	Non-Slip paint for stairs	9-Oct-2013	Yes	3[Y]
	Selley's Kwik Grip	Selley's Pty Ltd 1 Gow St, Padstow 2211	Workshop Caged Area.	500 ml	General Purpose Adhesive	25-Mar-2015	Yes	3[YE]
	Selley's Kwik Strip	Selley's Pty Ltd 1 Gow St, Padstow 2211	Workshop Caged Area.	250 ml	Paint and Varnish Stripper	1-Jul-2015	Yes	2[X]
	Septone Metal Polish	Septone Products 44 Aquarium Ave, Hemmant 4174	Workshop Caged Area.		Metal Polish	1-Jul-2016	No	N / A
	Septone Blockettes Toilet Deodorant Blocks	Septone Products 44 Aquarium Ave, Hemmant 4174	Change Room	4 Kg		1-Apr-2015	Yes	N / A
	Silastic 732 Multi-Purpose Sealant	Dow Corning Pty Ltd 3 Innovation Road, North Ryde 2113	Workshop Caged Area.	12 x 310 gm	Adhesive / Sealant.	14-Apr-2014	No	N / A
	Silastic 734 Flowable Sealant	Dow Corning Pty Ltd 3 Innovation Road, North Ryde 2113	Workshop Caged Area.		Self-levelling Adhesive / Sealant.	6-Feb-2016	Yes	N / A
	Toner PCU Type 1515	Hunter Business Equipment 6 Friesan Close Sandgate 2304	Main Office		Lanier LD015spf Photocopier Printer	Current	No	N / A
	Unleaded Petrol	Mobil Oil Australia	Workshop Caged Area.	20 Ltr	Fuel for petrol engines Petrol Gen Set Welder	13-Jan-2015	Yes	N / A
	Welding Rods GP6012	Cigweld 73 Gower St, Preston 3072	Workshop Caged Area.		General purpose welding	Current	Yes	N / A

ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

INDEX

	Section	Issue	Issue Date
Section Index	4.0	A/0	25-06-12
Storage Silos	4.1	A/0	25-06-12
Weighbridges	4.2	A/0	25-06-12
Silo Filters	4.3	A/0	25-06-12
Compressors	4.4	A/0	25-06-12
Transport Lines	4.5	A/0	25/06/12
Bulk Tanker Loading	4.6	A/0	25/06/12
Surface Water & Housekeeping	4.7	A/0	25/06/12
Silo High Level Alarm System	4.8	A/0	25/06/12
MSDS Sheets	4.9	A/0	25/06/12
Buell Classifier	4.10	A/0	25/06/12
Waste Management	4.11	A/0	25/06/12

Date:	Section #	Revision #	Reason / Comments
25-06-12	4.0	A/0	Revised section



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Storage Silos

Flyash Australia has 8 storage silos on site, description of these as per the Flyash Australia's Manuals of Work Instructions.

Storage silos would be one of the hazards FAA have onsite, although these could be considered a major hazard in some circumstances, FAA do not consider silos to be a major hazard for the following reasons

- Silos are very well designed and constructed
- Silos are well maintained, and have recently been repainted
- Silos are part of the FAA Preventative Maintenance plan, and are inspected on a frequent basis

For storage silos to be a major hazard an unusual event such as a major earthquake would have to occur, which impacted on the silo footings and support structure.

Silo's 1, 4, 5 are the only silo's that are used to fill bulk tankers.
This is done through 2 Mecal Unloaders, and is virtually dust free.

Silo levels are controlled by a dual system for safety, these are Calibrated and tested as per Section 25 of Manual of Work Instructions.

All storage silos are controlled by the PLC, and is managed by the SCADA control system, which continually monitors the whole plant.

A system of 3 Isolation valves is present on all silos, 2 acting as isolation valves and the 3rd as a controlled loading valve.

All valves are controlled by the PLC, also all 3 valves close in the event of loss of power or compressed air.

Silo's and Distribution Plant is also protected by other safety features, these are designed to stop the Interim Plant transferring Flyash, and to stop loading Bulk Tankers if we have problems, refer Sections 4,17,18,23 of Manual of Work Instructions.

Silos are fully sealed so they are dust free, all silos are physically checked on a daily, and weekly basis, as per our Plant Operators Daily Report. (Form PO1A)

Also checked as part of our Preventative Maintenance program Section 25 of Manual of Work Instructions.

All silos are within Bunded area, this ensures any spillages are cleaned up in a safe, environmentally responsible and proper manner, and are contained by our settlement pond.

Silo dust emissions are kept to a minimum with our 3 Filter Bag Houses, inspection and Maintenance of these as per Sections 25 of Manual of Work Instructions.

Date:	Section #	Revision #	Reason / Comments
2012	4.1	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Buell Classifier

Flyash Australia's Classifier is not an environmental risk.

The Classifier is a GE Buell Centrifugal Classifier.

The system is a closed system which recirculates the gas stream within a sealed duct.

Flyash is introduced into the system from No 2 Silo, through a V Port valve and drops into the stream of recirculating air.

All flanges and access doors are sealed, these have to be 100% water tight as our system has negative pressure and would otherwise suck in moisture.

Classifier is very low maintenance, and is checked as part of our Daily Operators Reports, and Section 15 of our Manual of Work Instructions.

Date:	Section #	Revision #	Reason / Comments
2012	4.10	A/0	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN Distribution Plant

Management & Disposal of Rubbish

Distribution Plant

Rubbish is the result of either amenities or as a result of Maintenance works.

Rubbish from our Maintenance Workshop, is disposed of in our Cleanaway Waste Bin, and everything possible is recycled.

Distribution Plant area is where all of Flyash Australia amenities are, this involves Offices, Lunch Room, Shower and Locker Room.

Rubbish would be mostly Bottles, Cans, Paper Towel and Food Scraps.
Recycling is done where possible, all other waste is in rubbish bags and disposed of in our Cleanaway Waste Bin.

Date:	Section #	Revision #	Reason / Comments
2012	4.11	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Distribution Plant – Weighbridges

Flyash Australia has 2 Weighbridges on site, No 1 Weighbridge has a capacity to weigh 60 Tonnes, and No 2 Weighbridge has the capacity to weigh 80 Tonnes and is long enough to load B Doubles Trailers.

Weighbridges are calibrated every 12 months, as required by the Trade Measurement Act. They are calibrated by Newcastle Weighing Services, who are a Quality Assured Company to AS/ISO 9002.

Copies of Weighbridge Certification Details are kept on site and copy to Eraring Energy. They are also spot checked by the Department of Fair Trading as they see fit.

All bulk tankers that load on site are loaded on Weighbridges, and are loaded as per the legal requirements for individual tanker configurations, mass management.

Tankers are loaded using the FAA Automatic touch screen loading system, this system manages the physical loading of tankers, and has more than adequate smarts to ensure loading is carried out, safely, in a controlled manner, and with the environment in mind at all times

Weighbridges are kept and maintained in excellent condition.

As all bulk tankers are loaded through our Mecal Unloaders the amount of dust and spillages is very minor, and Flyash that is spilt onto weighbridges is swept up and put back through our Settlement Pond.

Weighbridges also have a Concrete Bund around them; the purpose of this is to stop rain water or water used to wash down the yard from entering clean water drains.

Date:	Section #	Revision #	Reason / Comments
2012	4.2	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Silo Filters

Flyash Australia has 3 Fabric Filters on site.

All Filters are monitored 24 hours per day by Goyen Busted Bag Detector Systems, and the GC 4000 Cleaning System Controller.

This system operates as per Section 25 of Manual of Work Instructions, and Manufacturers Manuals.

All Filters are maintained as per Section 25 of Manual of Work Instructions and checked as part of our daily Plant Operators checks.

The Goyen BBD5 system has a self test built into controller (As per Section 25 of Manual of Work Instructions) which can be used to self test system for faults.

The FAA PLC monitors the filters onsite, and this information is saved to a database

All Fabric Filter records are inspected and checked by the EPA, and also get audited as part of our Quality System.

No 1 Filter is located on top of No 1 silo (Product Silo) it is a Controlled Environment Design, it has 9 rows of 9 bags which operate at a maximum pressure of 700 kPa.

No 2 Filter is located on top of No 2 Silo (Raw Feed Silo), it is a ABB Flakt design, it has 7 rows of 7 bags which operate at a maximum pressure of 700 kPa.

No 3 filter is located on the top of No 8 silo, it is a Dustcotech design, it has 9 rows of 8 bags which operate at a maximum pressure of 700 Kpa.

As part of our Maintenance program, all Filter bags are changed every 3 years.

Date:	Section #	Revision #	Reason / Comments
2012	4.3	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Compressors

Compressor No 1 is an Atlas Copco ZT 250

Compressor No 2 is a Champion CSD 55

Compressor No 3 is an Atlas Copco GA 37

Kockums SB1

Kockums SB2

All Compressors on site are checked on every shift, as per our Daily Operators Reports, problems are reported to the Maintenance Supervisor or mechanical Fitter.

All compressors are serviced and Maintained under service contracts, all service records are kept on site.

All Compressor Air Receivers and Plant Air Receivers are inspected and certified every 2 years. Inspection records and Certificates are kept on site.

Compressors are setup in a shed which is fully bunded, to ensure that in the unlikely event of an oil spillage the environment is protected

Discharge from all Compressors is directed to an Owamat Oil & Water Separator Unit.

All Oil is trapped in a filter system, and Contained in a Drum.

Any Water or moisture discharge is also sent back to Owamat Separator by an auto drain.

Water is checked against a Standard Sample on a weekly basis to ensure System is Filtering as it should be.

Flyash Australia also runs 2 Kockums compressors (1 in service and 1 backup) these are used to transfer Flyash to No 4 & 5 Silos for storage.

These are a high volume, low pressure Compressor.

Oil and Water discharge from this equipment is virtually nil; these Compressors are checked on a daily basis as per our Daily Operators Report.

Problems are reported to maintenance department and logged in maintenance diary.

Date:	Section #	Revision #	Reason / Comments
2012	4.4	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Transport Lines

Flyash Australia has 4 x 125mm Transport Lines (1 per Unit) which are used to transport Flyash from the FAA Interim Plant, to the storage silos.

This is a distance of approx 900 Metres.

All 4 transport lines are still the original pipelines, these are thickness tested as per Section 25 of our Manual of Work Instructions.

The amount of internal wear in the pipe lines is less than 0.5 mm in 15 years.

The only equipment on the Transport Lines that has been replaced is a few of the Impact Bends on top of the silos.

All pipe gaskets have been replaced to avoid the possibility of one leaking and causing an environmental problem.

Transport Lines are inspected on a daily basis, as per our Daily Operating Reports, problems are reported to our Maintenance Fitter for immediate action.

Transport lines are a very low risk, this low risk is due in part to our dense phase transportation methods, partly due to plant design, partly our daily inspection process, and our preventative maintenance inspections which include thickness testing of transport lines, and historically we have never had a major leak.

If our system experiences problems, we have built in safety features to tell our PLC to stop our Collection plant. These include things like, Low Plant air, Full Silos, fabric filter fans off. (we have a dual Level Indication system for added safety)

We also have the added ability to turn off the Interim Plant from the Control Room.

There are also E Stops located at various locations at the Distribution Plant to ensure that ash transfer systems can be stopped immediately if required.

Date:	Section #	Revision #	Reason / Comments
2012	4.5	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Bulk Tanker Loading System

Loading

All Bulk Tankers loaded on site are loaded through Mecal No Dust Truck Filling Chutes. These provide for virtually dust free loading.

Loading of Bulk Tankers is controlled by a dedicated PLC, which ensures for dust free, and problem free loading. System has logic & smarts to ensure tanker drivers cannot cause any environmental issues.

The Automatic driver self loading system has inbuilt safety systems to ensure loading /unloading valves cannot open unless tanker is under silo and Mecal Unloader spout is in tanker.

Dual isolation valves are also in place above unloading valve, these automatically closes if plant air pressure drops below 650 kPa.

Low air pressure has audible alarm to alert Operator of problem.

Loading / unloading valves also shut if there is a loss of power.

The unloader systems also have high level cutoff probes installed within the loading chute, these are extremely sensitive and close loading valve instantaneously if probe is covered. This system ensures we do not have bulk tanker overfills.

Unloading system also has E Stops for each weighbridge unloader, which can be used in the case of fugitive airborne dust, or emergency situations.

All bulk Tankers are only loaded to legal weights.

Tanker drivers are required to close loading hatches before moving off weighbridge to avoid spillages.

In the event of a spillage, flyash is swept up and put back through our Settlement Pond.

Due to environmental considerations bulk tankers cannot leave our site with flyash blowing off top of vehicle.

Excess flyash is swept up, any flyash remaining is hosed off in our dedicated truck wash down area, which is fully bunded and run back into our Settlement Pond.

Safety

All drivers must observe site safety rules as per the Eraring Driver Induction.

Drivers are constantly reminded to observe speed limits on Construction Road, Corner of Construction Road and Rocky Point Road, to try to limit road damage.

Flyash Australia's uses its Quality System for Non Conformance, and Complaints, to inform Transport Managers, and Company Quality Managers from all Bulk Tanker Companies of problems.

This enables us to get action taken on problems that might otherwise be ignored.

Flyash Australia also uses its site Safety Meetings, and Safety Committee to get action if needed.



Date:	Section #	Revision #	Reason / Comments
2012	4.6	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN

Distribution Plant

Surface Water / Housekeeping / Spillages

Spillages

All spillages are reported to Eraring Energy and the EPA as per our Licence Conditions and instruction from Flyash Australia General Manager.

Spillages at Flyash Australia's Distribution Plant are confined to Flyash Only.

Spillages are contained within confines of Weighbridge, within Weighbridge Bunding, or on top of Bulk Tankers.

Distribution Plant safety systems ensure loading/unloading valves cannot open unless Tanker is under silo and Mecal Unloader spout is in tanker.

Spillages on weighbridges are swept up and put back through our Settlement Pond system, the small amount of Flyash that cannot be swept up is cleaned up by hosing to our settlement pond.

Control of Spillages

Spillages are controlled in the following manner

1. Contain spillage.
2. Erecting safety barriers to keep people at a safe distance.
3. Cleaning up immediately.
4. In built plant safety systems.
5. Operator training.
6. Driver training.
7. Concrete Bunding.

Main Collection Drain

Yard Surface Water

Due to the slope on the distribution Plant yard all water ends up in the North West corner of the yard.

In order to divide surface of yard into sections that are fresh water only, and areas that have to be contained and Bunded, we have put in place the following.

A large kerbed Bund has been installed above Weighbridges; this collects all clean water above weighbridges and directs it to a drain.

Another Kerbed Bund has been installed below Weighbridges, this collects all water, wash down water, Flyash etc, and directs them to a First Flush containment pit, and settlement Pond.

Effectively areas under storage silos are contained this means that there is no environmental risk from any of our Plant and equipment.



Fresh Water Drains

No Flyash is hosed down fresh water drains, all drains within the confines of our Distribution Plant have a galvanized mesh screen to stop leaves, debris, foreign matter from entering them.

Tanker Wash Down

Due to environmental considerations bulk tankers cannot leave our site with flyash blowing off top of vehicle. Excess flyash is swept up, and any fly ash remaining is hosed off in our dedicated truck wash down area. The small amount of fly ash that is hosed off Tankers is cleaned up by hosing to our settlement pond.

Yard Housekeeping / Wash Down

Due to the nature of our industry, trees, Bulk Tankers dragging stones etc into yard on their tires, and our efforts to maintain good housekeeping

It is necessary to hose our Distribution Plant yard, on a regular basis.

Due to slope of yard and Bunding, all water goes through our First Flush Containment Pit, before collecting in the settlement pond.

Settlement Pond and Sediment Control

Flyash Australia has developed a management plan for our Distribution Plant; we have an Eraring Energy approved design that was developed by.

1. Bruce Fletcher & Associates, Geotechnical, Civil, and Earth Building Engineers.
2. Huntercon Pty Ltd, who has experience in this area designing and constructing similar for Concrete Plants and the Mining Industry.
3. Flyash Australia.
4. Eraring Energy.

Our approach has been to divide our yard into 2 distinct areas by using Fibrectete Bunding.

1. Area 1 is above and below Bunding; this is effectively a clean water only area and is mainly rain water, yard run off.
2. Area 2 consists of Silos 1 to 5, Blend Plant, Slurry System, Bulk Tanker wash down area; this effectively contains all plant that is used for processing or storage.

How it Works

This System is designed to allow settlement of any solids in water before they exit Settlement Pond.

This is done by using a 4 stage settlement process.

1. Contaminated water enters Energy Dissipation Pit; water has to reach first weir level before flowing into second compartment allowing some solids to settle.
2. Contaminated water enters second compartment of Pit, Water level has to reach second Weir level before flowing into Settlement Pond allowing additional solids to settle out.
3. Contaminated water enters Settlement Pond; Settlement Pond has enough capacity to ensure further settling of solids.
4. Water level must reach top of sump before flowing into discharge pipe, this also allows solids to settle out of water.

Date:	Section #	Revision #	Reason / Comments
2012	4.7	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN Distribution Plant

Silo High Level Alarm System

Silo Level Controls

All 8 silos on site have dual silo level systems

First system is the Drexelbrook level indicators, this is made up of 2 probes of different lengths

Second system is a Vega continuous level indicator

These are fitted to ensure we have no problems, system always knows when silos are full, and Distribution Plant always receives a signal that silos are full.

Silo levels are also controlled by the PLC, this ensures that the status of all silos is monitored at all times.

The first Drexellbrook probe is 1 metre long; this is what we call our Early Warning Alarm.

The second Drexellbrook probe is 600mm long; this is what we call our High Level Alarm.

Vega continuous level indicator is a full length, and gives us a third backup system

Level Indicators are checked and calibrated as per Section 25 of our Manual of Work Instructions.

As Flyash is being turned over constantly in silos, Level Indicators are activating on a frequent basis, this lets us know on a daily basis that indicators are working.

Also as part of our Daily Operators Reports, Level Indicators are checked to ensure they are working.

Silos No 1, 4,5,8 have dual systems fitted.

All Level Indicators are connected to audible alarms to ensure Distribution Plant operator is aware of the plant status at all times.

Date:	Section #	Revision #	Reason / Comments
2012	4.8	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

MSDS Sheets

Dangerous Goods Storage

All Dangerous goods Petrol, Chemicals, paints, Oils etc are stored in a separate shed that is Locked fully bunded, and ventilated. All are stored on shelves above the ground.

Material Safety Data Sheets - MSDS

An inventory of all workplace substances is kept on site.

A complete set of MSDS sheets for all Substances on site is kept in on file, additional sets are kept in weather proof container outside of Workshop / Storage Shed and in our SHE Management System.

Flyash Australia site MSDS policy and instructions are dealt with in detail in our SHE and Rehab Manual, Section 7.

Flyash Australia recognises the duty of care and responsibility in this area, and this is stressed to all employees.

Information and training on MSDS is conducted at and through our quarterly Site Safety Meetings.

Further information is available in our Occupational Health Safety and Rehabilitation System.

Date:	Section #	Revision #	Reason / Comments
2012	4.9	A/1	Change in legislation

ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

INDEX

	Section	Issue	Issue Date
Section Index	5.0	A/0	25-06-12
Interim Plant	5.1	A/0	25-06-12
Site Safety	5.2	A/1	25-06-12

Date:	Section #	Revision #	Reason / Comments
25-06-12	5.0	A/0	Revised Section



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Interim Plant

Flyash Australia has a backup transfer system, which is called the Interim Plant. This is used as emergency backup, in case the Eraring Energy system is out of service

This plant consists of 4 Depacs, and uses 2 of the original ash transport lines, from Units 1 & 2 to transfer ash to the FAA Distribution plant. Ash is transferred over a distance of approx 900 metres

Compressed air for this plant is supplied by Eraring Energy system.

The Interim plant is fully bunded and sits within the original Eraring Energy bunds for the Fabric Filter, in the case of a dust leak from a Depac, fly ash is swept up and ends up in the FAA Settlement Pond, and to ash dam when Eraring Energy have a wash down

All 4 transport lines are still the original pipelines, these are thickness tested as per Section 8.5 of our Manual of Work Instructions.

The amount of wear in the pipe lines is less than 0.5 mm in 15 years.

The only equipment on the Transport Lines that has been replaced is a few of the Impact Bends on top of the silos.

All pipe gaskets have been replaced to avoid the possibility of one leaking and causing an environmental problem.

Transport Lines are inspected on a daily basis, as per our Daily Operating Reports, problems are reported to our Maintenance Fitter for immediate action.

Transport lines are a very low risk, this low risk is due in part to our dense phase transportation methods, partly due to plant design, partly our daily inspection process, and our six monthly maintenance inspections which include thickness testing of transport lines, and historically we have never had a major leak.

If our system experiences problems, we have built in safety features to tell our PLC to stop our Collection plant. These include things like, Low Plant air, Full Silos, (we have a dual Level Indication system for added safety), Fabric Filter Fans off.

We also have the added ability to turn off the Interim Plant from the Control Room.

Date:	Section #	Revision #	Reason / Comments
2012	5.1	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Site Safety

Commitment

Safety is an area that Flyash Australia is committed to.

General Manager of Flyash Australia is very vocal on his commitment to Safety on site and his commitment to ensuring adequate resources and support to ensure a safe workplace.

We have in place an Occupational Health & Safety adviser, who is available at all times.

This is visible in the Minutes of our safety meetings; these are held on a monthly basis and action taken accordingly, as per example this document. Daily toolbox meetings are also held to cover off on daily issues of importance

Regular site inspections are held, to ensure that we maintain a safe working environment ,as per our Occupational Health Safety and Rehab System, Section 4.

This is also supported by our Occupational Health Safety and Rehab System, of which Eraring Energy has a copy.

Flyash Australia has a representative who sits on the Eraring Energy site safety committee, and who provides our safety statistics on a weekly basis.

Date:	Section #	Revision #	Reason / Comments
2012	5.2	A/1	Change in legislation

ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

INDEX

	Section	Issue	Issue Date
Section Index	6.0	A/0	25-06-12
EE Site Inductions	6.1	A/0	25-06-12
FAA Site Inductions	6.2	A/0	25-06-12
Environmental Induction	6.3	A/0	25-06-12
Contractor Management	6.4	A/0	25-06-12

Date:	Section #	Revision #	Reason / Comments
25-06-12	6.0	A/0	Revised Section



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Eraring Energy Site Inductions Site Safety / Contractors

All Flyash Australia employees have been through Eraring Energy approved site induction process.
All employees are inducted every 12 months as per Eraring Energy policy.
And all have EE Security Gate Passes.

All Contractors that work for Flyash Australia on a regular basis have also been through the Eraring Energy Site Induction, and have also completed the FAA site specific induction.
All Contractors are re inducted every 12 months as per Eraring Energy & FAA policy.
And all have Security Gate Passes.

All Contractors that work on the FAA site footprint only , are only required to complete a Flyash Australia only.
If onsite as a visitor only, they must be escorted whenever they are onsite as they do not have a Security Gate Pass.

All Contractors have been inducted externally by an Eraring Energy Approved Trainer.
This is Harro Personnel Services.
Training is done on site at Distribution Plant Offices.

Date:	Section #	Revision #	Reason / Comments
2012	6.1	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Flyash Australia Site Induction – Work specific Inductions

Flyash Australia has its own Site Induction Programme, as per Section 3.16 of our Manual of Work Instructions.

This is used for all Contractors working for us, this sets out basic Site Safety, isolation Procedures, etc All are required to read and sign off on; Operations Managers are on hand to explain expectations, and for further explanations.

All Bulk Tanker drivers are given a site specific Site Induction, this covers Site Safety, safe loading procedures and SHE, drivers are required to sign off on Induction and a sticker is placed on their hard Hat.

FAA policy is if they do not comply or refuse to sign off on Induction then they are not loaded.

If we engage a Contractor to do Specific or Specialist work, eg Hot Work, then a separate Site Induction is written setting out scope of work and specific instructions.

Date:	Section #	Revision #	Reason / Comments
2012	6.2	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Environmental Induction Requirements

All Flyash Australia employees and Contractors are aware of the Conditions of our EPA Licence.

All Flyash Australia employees have had sufficient training to ensure they are aware of their environmental responsibilities, and work to ensure the environment is protected at all times.

Most of the work that is a potential problem is covered in our Manual of Work Instructions with Job Specific Safe Working Instructions.

The FAA Preventative Maintenance system also ensures that plant & equipment is maintained in good working condition, to ensure that environmental issues are minimised as much as possible

All Contractors coming to site to do work that could cause an environmental problem have very specific instructions, and constant supervision to ensure there are no problems.

Date:	Section #	Revision #	Reason / Comments
2012	6.3	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

Contractor Insurance Details

All Contractors who work for Flyash Australia must supply all their insurance details before they start any work. These details are kept on site in our files. At the start of every year all Contractors are contacted to update their insurance details, and to provide current copies to Flyash Australia.

Flyash Australia has it's own Site Induction Programme, as per the FAA SHEQ System.

This is used for all Contractors working for us, this sets out basic Site Safety, isolation Procedures, etc. All are required to read and sign off on, Operations Managers are on hand to explain expectations, and for further explanations.

If we engage a Contractor to do Specific or Specialist work, eg Hot Work, then a separate Site Induction is written setting out scope of work and specific instructions.

Flyash Australia's policy for all people coming to our site is.

1. All must report to our main office located in our Distribution Plant.
2. All must sign visitor's book in and out of site.
3. All must report to us before they enter Eraring Energy's site.
4. All must report to us when they are leaving site.
5. All are checked for appropriate safety equipment.
6. All are informed of scope of work, and how to do so safely.
7. Plant Operators ensure equipment to be worked on is isolated and made safe to work.

Further information of our requirements for contractors is in our SHEQ System.

Date:	Section #	Revision #	Reason / Comments
2012	6.4	A/1	Change in legislation

ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

INDEX

	Section	Issue	Issue Date
Section Index	7.0	A/0	25-06-12
EPA Licence	7.1	A/0	25-06-12
EPA Policy	7.2	A/0	25-06-12

Date:	Section #	Revision #	Reason / Comments
25-06-12	7.0	A/0	Revised Section



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

EPA Licence

Attached is a copy of Flyash Australia's current [EPA Licence](#).

Date:	Section #	Revision #	Reason / Comments
2012	7.1	A/1	Change in legislation



ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

EPA Policy

Flyash Australia is a company who is committed to a responsible approach to our Environmental responsibilities on site.

This is reflected in the attitude of Flyash Australia's General Manager who has made it very clear what is expected on site.

Our EP.A licence No is 003780, this licence is in force from September 2011 till September 2012. Copy of this licence is part of this environmental management plan, and Flyash Australia certainly abides by all the conditions of such.

All company employees are aware of company policies regarding the environment, Training has been given to all employees, and this is reinforced as part of our Occupational Health and Safety System. As per the Minutes of our Safety Meetings held on site on a Monthly Basis.

Maintenance and Housekeeping is very high on the list of priorities, Plant and Equipment that is the most significant risk are focused on to ensure we have no problems. Routine daily monitoring is part of our plant operator's daily inspections, as per our Daily Operators Reports.

Date:	Section #	Revision #	Reason / Comments
2012	7.2	A/1	Change in legislation

ENVIRONMENTAL MANAGEMENT PLAN ERARING DEPOT

INDEX

	Section	Issue	Issue Date
Section Index	8.0	A/0	25-06-12
Eraring Energy Contact Procedure & Incident Reporting	8.1	A/0	25-06-12

Date:	Section #	Revision #	Reason / Comments
25-06-12	7.0	A/0	Revised Section

Environment Protection Licence



Licence - 3780

Licence Details

Number:	3780
Anniversary Date:	16-September

Licensee

FLYASH AUSTRALIA PTY LIMITED
LEVEL 1, 564 PRINCES HIGHWAY
ROCKDALE NSW 2216

Licence Type

Premises

Premises

FLYASH AUSTRALIA PTY LIMITED
CNR CROSS STREET AND CONTRACTORS ROAD
DORA CREEK NSW 2264

Scheduled Activity

Cement or lime works

Fee Based Activity

Cement or lime handling

Scale

> 100000 - 500000 T handled

Region

North East - Hunter
Ground Floor, NSW Govt Offices, 117 Bull Street
NEWCASTLE WEST NSW 2302
Phone: 02 49086800
Fax: 02 49086810

PO Box 488G NEWCASTLE
NSW 2300

Environment Protection Licence

Licence - 3780



Environment,
Climate Change
& Water

INFORMATION ABOUT THIS LICENCE.....	4
Dictionary.....	4
Responsibilities of licensee.....	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA.....	4
Transfer of licence	5
Public register and access to monitoring data.....	5
1 ADMINISTRATIVE CONDITIONS	5
A1 What the licence authorises and regulates	5
A2 Premises to which this licence applies.....	7
A3 Other activities	7
A4 Information supplied to the EPA.....	7
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND.....	7
P1 Location of monitoring/discharge points and areas.....	7
3 LIMIT CONDITIONS	8
L1 Pollution of waters.....	8
L2 Load limits.....	8
L3 Concentration limits.....	8
L4 Volume and mass limits	8
L5 Waste	8
L6 Noise Limits.....	9
4 OPERATING CONDITIONS	9
O1 Activities must be carried out in a competent manner.....	9
O2 Maintenance of plant and equipment	9
O3 Dust.....	9
5 MONITORING AND RECORDING CONDITIONS	9
M1 Monitoring records.....	9
M2 Requirement to monitor concentration of pollutants discharged	10
M3 Testing methods - concentration limits.....	10
M4 Recording of pollution complaints	10
M5 Telephone complaints line.....	10
M6 Requirement to monitor volume or mass	11
6 REPORTING CONDITIONS	11
R1 Annual return documents	11
R2 Notification of environmental harm.....	12
R3 Written report	12
GENERAL CONDITIONS.....	13

Environment Protection Licence



Licence - 3780

G1	Copy of licence kept at the premises	13
POLLUTION STUDIES AND REDUCTION PROGRAMS		13
U1	Not applicable.	14
SPECIAL CONDITIONS.....		14
E1	Not applicable.	14
DICTIONARY		14
	General Dictionary	14

Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act); and
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

The EPA publication "A Guide to Licensing" contains information about how to calculate your licence fees.

Licence - 3780

The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

FLYASH AUSTRALIA PTY LIMITED
LEVEL 1, 564 PRINCES HIGHWAY
ROCKDALE NSW 2216

subject to the conditions which follow.

1 Administrative conditions

A1 What the licence authorises and regulates

A1.1 Not applicable.

A1.2 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity
Cement or lime works

Fee Based Activity	Scale
Cement or lime handling	> 100000 - 500000 T handled

A1.3 Not applicable.

Environment Protection Licence

Licence - 3780



Environment,
Climate Change
& Water

A2 Premises to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
FLYASH AUSTRALIA PTY LIMITED
CNR CROSS STREET AND CONTRACTORS ROAD
DORA CREEK
NSW
2264
LOT 29 DP262501

A3 Other activities

A3.1 Not applicable.

A4 Information supplied to the EPA

A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- (a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- (b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to air and water and applications to land

P1 Location of monitoring/discharge points and areas

P1.1 Not applicable.

P1.2 Not applicable.

P1.3 Not applicable.

3 Limit conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Load limits

L2.1 Not applicable.

L2.2 Not applicable.

L3 Concentration limits

L3.1 Not applicable.

L3.2 Not applicable.

L3.3 Not applicable.

L4 Volume and mass limits

L4.1 Not applicable.

L5 Waste

L5.1 Not applicable.

L6 Noise Limits

L6.1 Not applicable.

4 Operating conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- (a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- (b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:
(a) must be maintained in a proper and efficient condition; and
(b) must be operated in a proper and efficient manner.

O3 Dust

O3.1 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

5 Monitoring and recording conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- (a) in a legible form, or in a form that can readily be reduced to a legible form;
- (b) kept for at least 4 years after the monitoring or event to which they relate took place; and
- (c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the

Licence - 3780

purposes of this licence:

- (a) the date(s) on which the sample was taken;
- (b) the time(s) at which the sample was collected;
- (c) the point at which the sample was taken; and
- (d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 Not applicable.

M3 Testing methods - concentration limits

M3.1 Not applicable.

M3.2 Not applicable.

M4 Recording of pollution complaints

M4.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

M4.2 The record must include details of the following:

- (a) the date and time of the complaint;
- (b) the method by which the complaint was made;
- (c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- (d) the nature of the complaint;
- (e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
- (f) if no action was taken by the licensee, the reasons why no action was taken.

M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

M5.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

Licence - 3780

M5.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M5.3 Conditions M5.1 and M5.2 do not apply until 3 months after:

- the date of the issue of this licence or
- if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

M6 Requirement to monitor volume or mass

M6.1 Not applicable.

6 Reporting conditions

R1 Annual return documents

What documents must an Annual Return contain?

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

- a Statement of Compliance; and
- a Monitoring and Complaints Summary.

A copy of the form in which the Annual Return must be supplied to the EPA accompanies this licence. Before the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

Period covered by Annual Return

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

R1.3 Where this licence is transferred from the licensee to a new licensee:

- the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
- the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

Licence - 3780

- R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
- (a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
 - (b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.

Deadline for Annual Return

- R1.5 The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').

Notification where actual load can not be calculated

- R1.6 Not applicable.

Licensee must retain copy of Annual Return

- R1.7 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.

Certifying of Statement of Compliance and signing of Monitoring and Complaints Summary

- R1.8 Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
- (a) the licence holder; or
 - (b) by a person approved in writing by the EPA to sign on behalf of the licence holder.
- R1.9 A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.

R2 Notification of environmental harm

Note: The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

R3 Written report

Environment Protection Licence



Licence - 3780

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- (a) where this licence applies to premises, an event has occurred at the premises; or
 - (b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,
- and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
- (a) the cause, time and duration of the event;
 - (b) the type, volume and concentration of every pollutant discharged as a result of the event;
 - (c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
 - (d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
 - (e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - (f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
 - (g) any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

General conditions

G1 Copy of licence kept at the premises

- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

Pollution studies and reduction programs

Licence - 3780

U1 Not applicable.

Special conditions

E1 Not applicable.

Dictionary

General Dictionary

In this licence, unless the contrary is indicated, the terms below have the following meanings:

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity

Licence - 3780

environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 1998.
flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary

Licence - 3780

	of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non-putrescible), special waste or hazardous waste

Mr Tim Gilbert

Environment Protection Authority

(By Delegation)

Date of this edition - 11-Aug-2009

End Notes

- 1 Licence varied by notice 1011960, issued on 31-Oct-2001, which came into effect on 25-Nov-2001.
- 2 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>

End Notes

- 3 Licence varied by notice 1104877, issued on 11-Aug-2009, which came into effect on 11-Aug-2009.