

Environment Protection Licence

Licence - 505

Licence Details

Number:	505
Anniversary Date:	31-October

Licensee

INDUSTRIAL GALVANIZERS CORPORATION PTY LTD
 312 PACIFIC HIGHWAY
 HEXHAM NSW 2322

Premises

INDUSTRIAL GALVANIZERS (NEWCASTLE)
 312 PACIFIC HIGHWAY
 HEXHAM NSW 2322

Scheduled Activity

Metallurgical activities

Fee Based Activity

Scale

Metal coating	0-100000 T annual capacity to coat metal
Metal waste generation	> 100 T annual volume of waste generated or stored

Region

North - Hunter
 Ground Floor, NSW Govt Offices, 117 Bull Street
 NEWCASTLE WEST NSW 2302
 Phone: (02) 4908 6800
 Fax: (02) 4908 6810
 PO Box 488G
 NEWCASTLE NSW 2300

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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);
- 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).

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

INDUSTRIAL GALVANIZERS CORPORATION PTY LTD
312 PACIFIC HIGHWAY
HEXHAM NSW 2322

subject to the conditions which follow.

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1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 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	Fee Based Activity	Scale
Metallurgical activities	Metal coating	0 - 100000 T annual capacity to coat metal
Metallurgical activities	Metal waste generation	> 100 T annual volume of waste generated or stored

Note: In relation to this licence, the licensee must comply with:

- . The fee based activity scale limits imposed on this licence;
- . The fee based activity scale limits which apply for the reporting period specified in this licence; and
- . The activity scale limits imposed by other legal instruments, such as approvals currently in force under the *Environmental Planning and Assessment Act 1997*

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
INDUSTRIAL GALVANIZERS (NEWCASTLE)
312 PACIFIC HIGHWAY
HEXHAM
NSW 2322
PREMISES MARKED AND SHOWN ON PLAN TITLED "SITE LAYOUT AND LICENCE MONITORING LOCATIONS - LOTS 1 & 2 DP 520947, LOT 1 DP 741815 AND LOTS 55-61 DP 32517, MAITLAND RD, HEXHAM" DATE OF SURVEY 31 MARCH 2008. PREPARED BY RICHARD HUTCHISON SURVEYING (EPA REF: DOC15/523347-01)

A3 Information supplied to the EPA

A3.1 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.

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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 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

P1.2 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Groundwater quality monitoring		Well "1" located as shown on Plan titled "Site Layout and Licence Monitoring Locations - lots 1 & 2 DP 520947, Lot 1 DP 741815 and Lots 55-61 DP 32517, Maitland Rd, Hexham" 31 March 2008 Prepared by Richard Hutchison Surveying (EPA REF:DOC15/523347-01)
2	Groundwater quality monitoring		Well "2" located as shown on Plan titled "Site Layout and Licence Monitoring Locations - lots 1 & 2 DP 520947, Lot 1 DP 741815 and Lots 55-61 DP 32517, Maitland Rd, Hexham" 31 March 2008 Prepared by Richard Hutchison Surveying (EPA REF:DOC15/523347-01)
3	Groundwater quality monitoring		Well "3" located as shown on Plan titled "Site Layout and Licence Monitoring Locations - lots 1 & 2 DP 520947, Lot 1 DP 741815 and Lots 55-61 DP 32517, Maitland Rd, Hexham" 31 March 2008 Prepared by Richard Hutchison Surveying (EPA REF:DOC15/523347-01)

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4	Ambient water monitoring	Point "S1" located as shown on Plan titled "Site Layout and Licence Monitoring Locations - lots 1 & 2 DP 520947, Lot 1 DP 741815 and Lots 55-61 DP 32517, Maitland Rd, Hexham" 31 March 2008 Prepared by Richard Hutchison Surveying (EPA REF:DOC15/523347-01)
5	Ambient water monitoring	Point "S2" located as shown on Plan titled "Site Layout and Licence Monitoring Locations - lots 1 & 2 DP 520947, Lot 1 DP 741815 and Lots 55-61 DP 32517, Maitland Rd, Hexham" 31 March 2008 Prepared by Richard Hutchison Surveying (EPA REF:DOC15/523347-01)
6	Ambient water monitoring	Point "S3" located as shown on Plan titled "Site Layout and Licence Monitoring Locations - lots 1 & 2 DP 520947, Lot 1 DP 741815 and Lots 55-61 DP 32517, Maitland Rd, Hexham" 31 March 2008 Prepared by Richard Hutchison Surveying (EPA REF:DOC15/523347-01)

P1.3 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

Air

EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
7	Discharge to Air and Monitoring	Discharge to Air and Monitoring	Galvanizing Bath Baghouse Stack shown as "A1" on Plan titled "Site Layout and Licence Monitoring Locations - lots 1 & 2 DP 520947, Lot 1 DP 741815 and Lots 55-61 DP 32517, Maitland Rd, Hexham", 31 March 2008 (EPA REF:DOC15/523347-01)

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 Concentration limits

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L2.1 For each monitoring/discharge point or utilisation area specified in the table\ below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.

L2.2 Air Concentration Limits

POINT 7

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Total Solid Particles	milligrams per cubic metre	30	Dry, 273K, 101.3 kPa		1 Hour
Hydrogen chloride	milligrams per cubic metre	5	Dry, 273 K, 101.3 kPa		1 Hour
Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	1	Dry, 273 K, 101.3 kPa		1 Hour
zinc and zinc compounds	milligrams per cubic metre	5	Dry, 273 K, 101.3kPa		1 Hour
PM10	milligrams per cubic metre	2	Dry, 273 K, 101.3 kPa		1 Hour
Velocity	metres per second	16	Dry , 273 K, 101.3 kPa		1 Hour
Ammonia	milligrams per cubic metre	1	Dry, 273 K, 101.3 kPa		1 hour

L3 Waste

L3.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	General or Specific exempted waste			NA
NA	Waste			NA

L3.2 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the

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premises to be disposed of at the premises, except as expressly permitted by the licence.

L4 Potentially offensive odour

L4.1 The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.

L4.2 No condition of this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

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.

O3.2 Trucks entering and leaving the premises that are carrying loads of dust generating materials must have their loads covered at all times, except during loading and unloading.

O4 Emergency response

O4.1 The licensee must maintain, and implement as necessary, a current emergency response plan for the

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premises. The licensee must keep the emergency response plan on the premises at all times. The emergency response plan must document systems and procedures to deal with all types of incidents (e.g. spills, explosions or fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment. If a current emergency response plan does not exist at the date on which this condition is attached to the licence, the licensee must develop an emergency response plan within three months of that date.

O5 Processes and management

- O5.1 All above ground tanks containing material that is likely to cause environmental harm must be bunded or have an alternative spill containment system in place.
- O5.2 Bunds must:
- have walls and floors constructed of impervious materials;
 - be of sufficient capacity to contain 110% of the volume of the tank (or 110% volume of the largest tank where a group of tanks are installed);
 - have floors graded to a collection sump; and
 - not have a drain valve incorporated in the bund structure,
- or be constructed and operated in a manner that achieves the same environmental outcome.
- O5.3 The licensee must ensure that waste identified for recycling is stored separately from other waste.

O6 Waste management

- O6.1 The licensee must ensure that any liquid and/or non liquid waste generated and/or stored at the premises is assessed and classified in accordance with the EPA's Waste Classification Guidelines as in force from time to time.

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:
- in a legible form, or in a form that can readily be reduced to a legible form;
 - kept for at least 4 years after the monitoring or event to which they relate took place; and
 - 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 purposes of this licence:
- the date(s) on which the sample was taken;
 - the time(s) at which the sample was collected;

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- 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 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Air Monitoring Requirements

POINT 7

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per cubic metre	Every 6 months	TM-15
Hydrogen chloride	milligrams per cubic metre	Every 6 months	TM-8
PM10	milligrams per cubic metre	Every 6 months	OM-5
Total Solid Particles	milligrams per cubic metre	Every 6 months	TM-15
Type 1 and Type 2 substances in aggregate	milligrams per cubic metre	Every 6 months	TM-12, TM-13 & TM-14
Velocity	metres per second	Every 6 months	TM-2
Volumetric flowrate	cubic metres per second	Every 6 months	TM-2
Zinc	milligrams per cubic metre	Every 6 months	TM-12

M2.3 Water and/ or Land Monitoring Requirements

POINT 1,2,3

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Every 6 months	Grab sample
Chloride	milligrams per litre	Every 6 months	Grab sample
Chromium (hexavalent)	milligrams per litre	Every 6 months	Grab sample
Chromium (total)	milligrams per litre	Every 6 months	Grab sample
Conductivity	microsiemens per centimetre	Every 6 months	Grab sample
Faecal Coliforms	colony forming units per 100 millilitres	Every 6 months	Grab sample

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Lead (dissolved)	milligrams per litre	Every 6 months	Grab sample
Nickel (dissolved)	milligrams per litre	Every 6 months	Grab sample
pH	pH	Every 6 months	Grab sample
Total Kjeldahl Nitrogen	milligrams per litre	Every 6 months	Grab sample
Zinc (dissolved)	milligrams per litre	Every 6 months	Grab sample
Zinc (total)	milligrams per litre	Every 6 months	Grab sample

POINT 4,5,6

Pollutant	Units of measure	Frequency	Sampling Method
Chloride	milligrams per litre	Special Frequency 1	Grab sample
Chromium (hexavalent)	milligrams per litre	Special Frequency 1	Grab sample
Chromium (total)	milligrams per litre	Special Frequency 1	Grab sample
Conductivity	microsiemens per centimetre	Special Frequency 1	Grab sample
Lead	milligrams per litre	Special Frequency 1	Grab sample
Nickel	milligrams per litre	Special Frequency 1	Grab sample
pH	pH	Special Frequency 1	Grab sample
Total Kjeldahl Nitrogen	milligrams per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample
Zinc (dissolved)	milligrams per litre	Special Frequency 1	Grab sample
Zinc (total)	milligrams per litre	Special Frequency 1	Grab sample

Note: Special Frequency 1 means Quarterly when drain is flowing, during or after rainfall.

M3 Testing methods - concentration limits

M3.1 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

M3.2 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:

- any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
- if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or

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c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

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.

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 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

6 Reporting Conditions

R1 Annual return documents

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

1. a Statement of Compliance,
2. a Monitoring and Complaints Summary,
3. a Statement of Compliance - Licence Conditions,

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4. a Statement of Compliance - Load based Fee,
5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. a Statement of Compliance - Environmental Management Systems and Practices.

At 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.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- R1.3 Where this licence is transferred from the licensee to a new licensee:
- a) 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
 - b) 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.
- 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.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or 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').
- R1.6 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.
- R1.7 Within the Annual Return, the Statements 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.

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.

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

R2 Notification of environmental harm

- 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.

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Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R3 Written report

- 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.

R4 Other reporting conditions

R4.1 The licensee must submit to EPA no later than 60 days after the anniversary date of the licence, an annual surface water / groundwater monitoring report. The report must:

(a) identify the source, location and concentration of contaminants in the surface water and groundwater; and

(b) include an interpretation of the results including a comparison with the results for samples taken in the previous reporting period.

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7 General Conditions

G1 Copy of licence kept at the premises or plant

- 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.

G2 Contact number for incidents and responsible employees

- G2.1 The licensee must provide the EPA with up to date contact details to enable the EPA:
- a) to contact either the licensee or a representative of the licensee who can respond at all times to incidents relating to the premises, and
 - b) to contact the licensee's senior employees or agents authorised at all times to:
 - i) speak on behalf of the licensee, and
 - ii) provide any information or document required under licence.
- G2.2 The contact details required by Condition G2.1 above must include:
- a) the full name and title of the authorised representatives and the scope of their respective authorisations; and
 - b) the direct telephone number, mobile number, pager number, fax number, email address and postal address for contacting each authorised representative.
- G2.3 The licensee is to inform the EPA in writing of the appointment of any subsequent contact persons, or changes to the person's contact details as soon as practicable and in any event within fourteen days of the appointment or change.

G3 Other general conditions

G3.1 Completed Programs

Program	Description	Completed Date
Works to control fume emissions and odours	Works to control fume emissions and odours. Improved amenity for local residents	23-September-2003
Works to reduce stormwater contamination	Works to reduce stormwater contamination. Reduced stormwater, groundwater and soil pollution COMPLETED 170203	17-February-2003

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Improvements to bunding and chemical storage	Improvements to bunding and chemical storage. Reduce groundwater contamination. COMPLETED 170203	17-February-2003
Establish 24 hour complaint service to comply with	Establish 24 hour complaint service to comply with M5.4 to M5.6. Increased community consultation	23-September-2003
Install weather station	Install weather station. Improve resolution of air emission complaints	23-September-2003
PRP06 - Groundwater Management Plan	The licensee is to compile and implement a groundwater remediation/management program.	27-June-2014
PRP07 - Zinc Kettle Fume Controls	Installation of zinc kettle fume controls.	28-August-2014
PRP08 - Reduction in Acid Mist Emissions	Improvement works to reduce acid mist and associated odours being emitted to the atmosphere.	30-April-2015

8 Pollution Studies and Reduction Programs

U1 Pollution Reduction Study 9 - Close Chrome Loop

U1.1 The Licensee must provide a report on all available options to ensure that all sodium dichromate used at the premises remains in a closed loop. The report must include, but is not limited to, undercover storage of galvanized product, an assessment of post passivation (dipping in the quenching tank) rinsing, plus recapture and recovery of post passivation rinsate from the product storage hardstand areas.

The report must also incorporate a calculation of sodium dichromate loss, by volume, to the environment during operational procedures and any reported options and outcomes.

The report must be provided to the EPA Regional Manager Hunter by email to hunter.region@epa.nsw.gov.au by no later than 5pm, Friday 28 September 2018.

U2 PRP 10 - Groundwater Remediation Plan

U2.1 The Licensee must carry out remedial works which include full scale implementation of the Remedial Action Plan (report titled "Groundwater Remediation Action Plan - 312 Pacific Highway Hexham, NSW" prepared by Environmental Strategies and dated June 2014 ("the RAP"). Implementation of the RAP is based on results of the Injection Pilot Trial (report titled "Injection Pilot Trial Report - 312 Pacific Highway, Hexham, NSW" prepared by Environmental Strategies and dated July 2016 ("the Pilot Trial Report")) and must include, but is not limited to the following:

1. Completion of injection events at the 16 injection wells within the identified treatment zone to remediate zinc impacted and low pH groundwater.
2. The injection volume and concentration of the selected amendment solution, Calcium Polysulfide (CaSx) will be increased based on the results in the Pilot Trial Report. This is to counteract low pH levels in groundwater and precipitate zinc from solution.
3. Monitoring must be undertaken within the adjacent stormwater canal during injection works. Monitoring must include but is not limited to visual monitoring for "daylighting" of CaSx injection solution, monitoring

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of pH and potential odours.

4. The Licensee must engage with adjacent residents and property owners to provide updated information on the ongoing remediation works.
5. Groundwater monitoring must be undertaken at two and four month periods following injection works.
6. Optimisation of the in-situ geochemical fixation process must be undertaken where deemed necessary.
7. Injection events must continue until concentrations of zinc and pH levels in groundwater meet the groundwater remediation targets as specified in Table 7-1 of the RAP.
8. Where the groundwater remediation targets are achieved, the stability of the zinc precipitate and longer term effectiveness of the remedial works must be confirmed by ongoing groundwater monitoring.

All works specified above must be completed by no later than 30 May 2018.

U2.2 The Licensee must prepare and submit a report(s) that details the results of the full scale in-situ geochemical fixation works. The report must include, but should not be limited to the following:

1. An overview of the injection works completed.
2. The results of all monitoring associated with the injection works.
3. An interpretation of the monitoring results.
4. An assessment of the stability of in-situ geochemical fixation based on the post injection results.
5. Recommended findings and outcomes for further remediation of groundwater at the premises.
6. Where ongoing injection events are required, the remediation monitoring reports must be submitted with the Licence Annual Return documents or as completed.

The report detailing the full scale in-situ injection event must be submitted to the EPA's Director-Hunter at PO Box 488G, Newcastle NSW 2300, or by email to hunter.region@epa.nsw.gov.au by no later than 5:00 PM, Friday 28 September 2018.

9 Special Conditions

E1 Response to public complaints

- E1.1 The licensee must operate, maintain and promote a 24 hour service that allows members of the public to contact a representative of the licensee to report any incidents of pollution and/or seek information regarding environmental aspects of the licensee's activities.
- E1.2 In the event that the licensee receives a complaint about odours or emissions alleged to have originated from the premises, the licensee must immediately investigate the odour or emission complaint, including an assessment at the location of the complaint outside the premises and an assessment of the prevailing weather conditions.
- E1.3 If any odour originating from the premises is detected outside the premises, the licensee must immediately initiate action to stop the emission of the odour.
- E1.4 The licensee must advise the EPA by facsimile to (02) 4908 6810, or by email to hunter.region@epa.nsw.gov.au, on the next working day, of every odour or emission complaint received and any action taken.

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Dictionary

General Dictionary

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 2009
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 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
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
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 2009.
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

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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 (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 2009
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 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> .

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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

Ms Nadia Kanhoush

Environment Protection Authority

(By Delegation)

Date of this edition: 17-November-2000

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End Notes

- 1 Licence varied by notice 1003510, issued on 01-Feb-2001, which came into effect on 26-Feb-2001.
- 2 Licence varied by notice 1012157, issued on 03-Dec-2001, which came into effect on 28-Dec-2001.
- 3 Licence varied by Admin corrections to archived record, issued on 02-Dec-2002, which came into effect on 02-Dec-2002.
- 4 Licence varied by notice 1024707, issued on 25-Mar-2003, which came into effect on 19-Apr-2003.
- 5 Licence varied by notice 1030997, issued on 23-Sep-2003, which came into effect on 18-Oct-2003.
- 6 Licence varied by notice 1057361, issued on 27-Apr-2006, which came into effect on 27-Apr-2006.
- 7 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 8 Licence varied by notice 1109593, issued on 30-Jul-2010, which came into effect on 30-Jul-2010.
- 9 Licence varied by notice 1124717, issued on 11-May-2011, which came into effect on 11-May-2011.
- 10 Licence varied by notice 1503320 issued on 19-Jan-2012
- 11 Licence varied by notice 1504660 issued on 29-Feb-2012
- 12 Licence varied by notice 1511232 issued on 13-Jun-2013
- 13 Licence varied by notice 1516916 issued on 11-Dec-2013
- 14 Licence varied by notice 1522713 issued on 24-Jun-2014
- 15 Licence varied by notice 1524165 issued on 27-Nov-2014
- 16 Licence varied by notice 1531542 issued on 23-Dec-2015
- 17 Licence varied by notice 1537287 issued on 06-Mar-2018