

**AUCKLAND REGIONAL COUNCIL**  
**RESOURCE CONSENT**

**Granted pursuant to the Resource Management Act 1991**

**PERMIT NO. 21575**

**CONSENT HOLDER:** New Zealand Steel Limited

**FILE REFERENCE:** 3541 (Northside)

**CONDITIONS OF CONSENT:**

Date of Commencement of Consent: 15 April 2003

Duration of Consent: This consent shall expire on 31 December 2021 unless it has lapsed, been surrendered or been cancelled at an earlier date pursuant to the Resource Management Act 1991.

Date of Lapsing of Consent: Not applicable.

Purpose of Consent: To authorise the discharge of treated process water and stormwater into the coastal marine area from the Northside outfall, in accordance with Section 15 (1)(a) of the Resource Management Act 1991.

Works: Not applicable

Site Location: Mission Bush Rd. Glenbrook

Legal Description of Land: Part Allotments 318 and 319 Parish of Waiuku, being part of land described in C.T. 31A/1099

Territorial Authority: Franklin District Council

Approximate Map Reference: NZMS 260 R12 629429

**DEFINITIONS:**

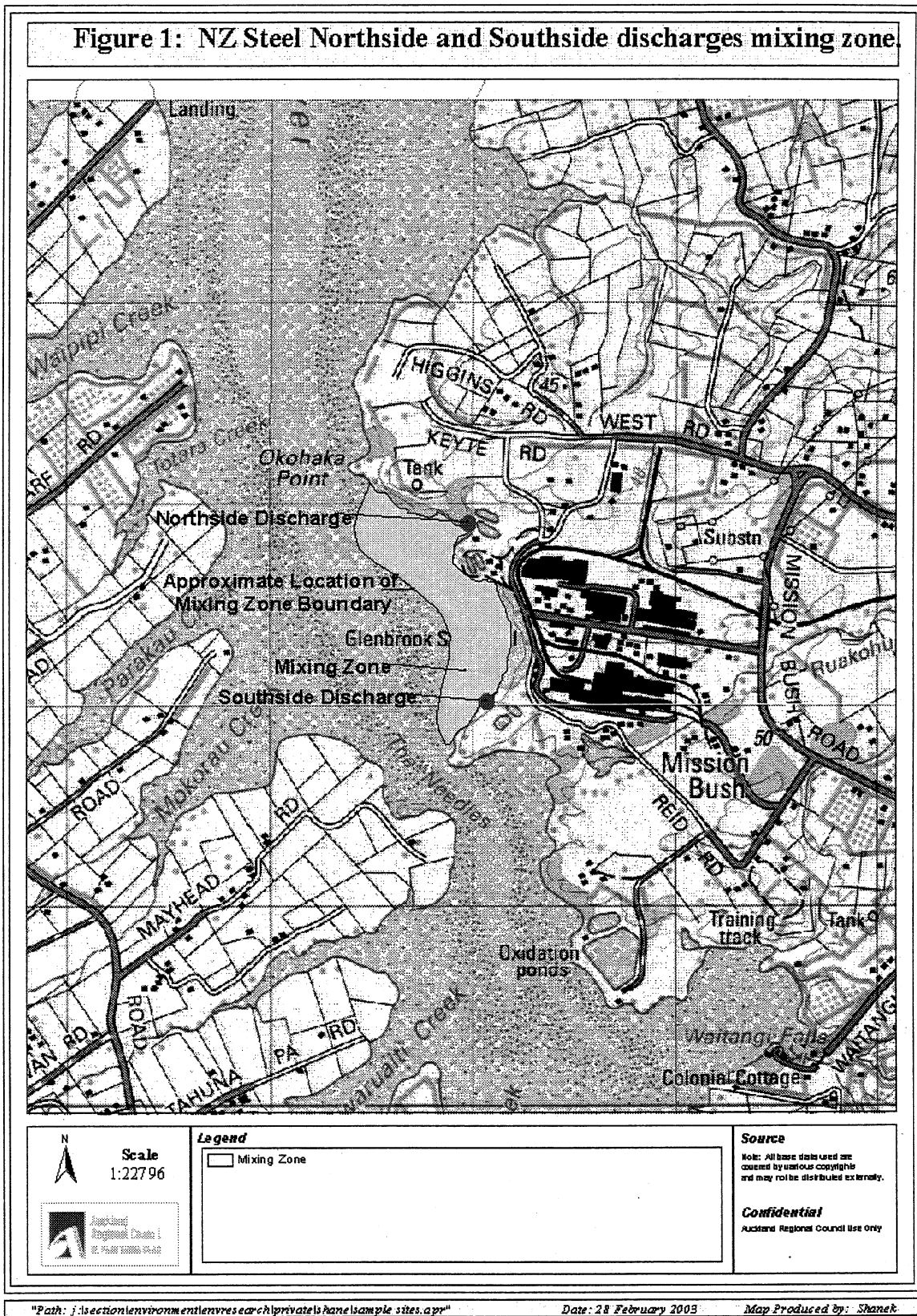
ARC: means the Auckland Regional Council.

Council: means the Auckland Regional Council.

Manager: means the Manager, Land and Water Quality, Auckland Regional Council.

Mixing Zone: means the area of estuary influenced by the discharge water and its associated contaminants as indicated on Figure 1.

Figure 1: NZ Steel Northside and Southside discharges mixing zone.



1 GENERAL CONDITIONS:

- 1.1 The servants or agents of the Council shall be permitted access to the relevant parts of the property at all reasonable times for the purpose of carrying out inspections, surveys, investigations, tests, measurements or taking samples.
- 1.2 Servants or agents of the Council performing work specified in section 1.1 will carry out their operations in accordance with the Health and Safety requirements of the Consent Holder. Where required, the Consent Holder shall provide a specific safety induction to familiarise those servants or agents of the Council with safety requirements for working on the site and to highlight potential safety hazards.
- 1.3 The Consent Holder shall, as far as practicable, operate the plant and associated processes in accordance with the documentation submitted to the Council as part of application number 983541. No alterations shall be made to the plant or processes that do not, or are not likely to, comply with the provisions of this consent, a regional rule, or regulations under the Resource Management Act 1991.

2 LIMIT CONDITIONS:

- 2.1 The total volume of treated process water plus stormwater discharged shall not exceed an average of 9000m<sup>3</sup> per day, over each calendar month.
- 2.2 The total mass loads of contaminants and the quality of the total discharge of treated process water and stormwater at the point of entry to the Waiuku estuary shall comply with the standards set out in the appended Table 1.

3 PROCESS CONDITIONS:

- 3.1 That as far as practicable stormwater collected from the Northside catchment shall be recycled to supply process and washdown water requirements.

3.2 POND MAINTAINANCE

- (a) The water level of each of the Northside settling ponds shall be lowered to allow inspection of the accumulated sediment at least once per year. The accumulated sediment shall be removed from all ponds in the months between 1 October and 30 April each year. The methods for removal of sediment will include, but not necessarily be limited to, fully draining and taking 'off line' individual ponds so that they can be dredged and reinstated as settling ponds.
- (b) The requirement of condition 3.2 (a) to remove accumulated sediments from the Northside settling ponds may be waived if written approval is obtained from the Manager.
- (c) That in addition to the annual draining and dredging operation the Consent Holder shall estimate the sediment deposition in the ponds each calendar month by observation at the head of each settling pond. The head of the settling ponds shall be dredged as soon as practicable should sediments be visible at the surface of the ponds.



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- (d) Accumulated sediment shall be removed from the whole pond if dredging of the pond head, as required under 3.2 (b), is insufficient to restore the pond's efficiency.
- (e) Sediment dredged from the settlement ponds shall be either reprocessed or disposed of in an authorised landfill.

3.3 WETLAND TRIAL

- (a) The Consent Holder shall, consult with Huakina Trust on the development of a programme for installing a trial wetland treatment system on the Northside discharge.
- (b) The Consent Holder shall provide the ARC with a timetable for the wetland trial within 1 month of reaching agreement on the trial programme with Huakina Trust.
- (c) Surplus flow from the settling ponds shall be passed through the trial filtration bed wetland at a maximum rate to be determined by the final wetland design.
- (d) The total daily flow passed through the wetland shall be recorded in the monthly water report submitted to the ARC as required by condition 5.1 of this consent.
- (e) During the first six months after commissioning of the wetland the quality of water entering and leaving the wetland shall be monitored over a minimum of six periods. Each monitoring period shall last a minimum of 24 hours, and each monitoring period shall be a minimum of 7 days from the next.
- (f) A report detailing the treatment performance of the trial wetland shall be prepared by the Consent Holder and a copy of the report provided to ARC within 8 months of commissioning of the wetland.
- (g) The Consent Holder shall obtain approval from the Manager, Auckland Regional Council prior to terminating the wetland trial.

3.4 BIOCIDES DOSING

- (a) Treated process water biocide dosing shall be scheduled so that circuits are dosed consecutively and not concurrently.
- (b) Before commencing the use of a biocide that has not previously been used, or increasing the use of a biocide above a previously applied rate, the Consent Holder shall:
  - (i) Submit to the ARC such information as may reasonably be obtained on the toxicity and final effluent concentrations of the biocide, its residues and by-products;
  - (ii) Provide an assessment of the potential toxicity of any residual treatment chemicals, or their by-products that remain in the discharge.

- (c) Any biocide used shall be non-toxic to humans or the marine receiving environment at the concentrations present in the permitted discharge.
- (d) All biocides shall be applied in accordance with the manufacturers specifications.

### 3.5 MATERIAL HANDLING, WATER SYSTEMS AND OTHER PROCESSES

- (a) The Consent Holder shall notify the ARC of any proposed changes to the raw materials, stored materials, processes, or water systems within the plant that may have a significant effect the quantity or quality of the authorised discharge. Information provided shall include a full description of the proposed changes, estimates of how the quantity and quality of the discharge is likely to be affected, and whether or not the new discharge will comply with this permit.

### 3.6 ASSESSMENT OF STORMWATER TREATMENT SYSTEMS

- (a) The Consent Holder shall commission an audit of the stormwater systems on the site. The audit shall provide for the following:
  - (i) Identifying the source of stormwater contaminants from the site;
  - (ii) Assessing whether storage and containment systems for hazardous substances are adequate to prevent accidental spills entering the stormwater system;
  - (iii) Assessing whether contaminated stormwater is adequately routed through treatment systems;
  - (iv) Assessing the performance of existing stormwater treatment systems and practices;
  - (v) Identifying ways of reducing contaminant loads conveyed to the settlement ponds as far as practicable;
  - (vi) Identifying priorities for improving stormwater, quantity, quality and treatment practices;
  - (vii) Recommending ways of reducing overflows, leaks or accidental discharges of untreated wastewater and chemicals into the stormwater systems;
  - (viii) Assessing whether stormwater management systems and practices comply with all relevant Regional Plans;
  - (ix) Developing a programme and timeframe for the implementation of recommended improvements.
- (b) The consent holder is required to have the stormwater audit detailed in condition 3.6 (b) reviewed by an independent expert in stormwater management.
- (c) The stormwater systems audit will be completed and forwarded to the Manager within twelve months of the granting of this consent.

4 MONITORING CONDITIONS:

4.1 ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

- (a) The Consent Holder shall prepare and implement an Environmental Management and Monitoring Plan within six months of the granting of this Consent.
- (b) The Environmental Management and Monitoring Plan shall include, but not be limited to, the following specific details:
  - (i) An Environmental Policy;
  - (ii) The identification of the specific activities and contaminants associated with industrial or trade processes on-site;
  - (iii) Methods for minimising the risk of adverse environmental effects and non compliance with this consent;
  - (iv) Contingency plans for dealing with incidents that may result in non-compliance with the conditions of this consent;
  - (v) Appropriate auditing requirements to ensure performance of all components of the Environmental Management and Monitoring Plan;
  - (vi) A method by which the Environmental Management and Monitoring Plan is reviewed by management to ensure its continuing suitability, adequacy and effectiveness;
  - (vii) Details on how the Consent Holder will assess sediment quality, benthic community health, and shellfish contaminant loads within the mixing zone in accordance with the conditions of this consent;
  - (viii) Methods of sample collection and laboratory analysis;
  - (ix) Requirements for the reporting of results in accordance with the conditions of this consent;
  - (x) The responsibilities for these procedures and methods.
- (c) The sampling methods, laboratory analyses and statistical analyses used for sediment quality and benthic community health required in the Environmental Management and Monitoring Plan shall be consistent with ARC protocols for monitoring urban receiving environments as outlined in ARC Technical Publication 168, "Blueprint for monitoring urban receiving environments" or any subsequent protocols for monitoring urban receiving environments as approved by the Manager.
- (d) One Environmental Management and Monitoring Plan may be prepared covering the three treated process water and stormwater discharge consents (Permit Numbers. 983541, 983542 and 984086) for the Glenbrook Mill.
- (e) Approval for the Environmental Management and Monitoring Plan shall be obtained from the Manager.

#### 4.2 PHYSICAL AND CHEMICAL PARAMETERS

- (a) The rate of discharge of the combined treated process water and stormwater shall be monitored by means of a suitable, permanently installed continuous recorder. A back up flow monitoring system approved by the Manager shall be available at all times.
- (b) Outages of the stormwater recycle pumps at the Northside outfall shall be recorded in the monthly water reports required by Condition 5.1. Detailed reasons shall be provided to the Manager for any continuous outages of more than 24 hours in duration.
- (c) The parameters listed in the appended Table 1 shall be monitored in accordance with the collection methods and frequencies listed in the table.
- (d) A replacement flow-proportional sampler shall be available at all times to replace the on-line sampler in the event of its failure.

#### 4.3 SEA TEMPERATURE

- (a) The Consent Holder shall take weekly recordings of ambient sea temperature from a fixed location that is not influenced by heated water discharges. The depth of sampling shall be sufficient to ensure that ambient sea temperature recordings are not affected by surface heating.
- (b) Ambient sea temperature from one fixed location can be used to cover the two process water and stormwater discharge consents (Permit Numbers. 983541, 983542) for the Glenbrook Mill.
- (c) The Consent Holder shall obtain written approval from the Manager, ARC regarding the location and depth of ambient sea temperature recordings.

#### 4.4 SEDIMENT QUALITY

- (a) The Consent Holder shall collect and analyse sediment quality samples bi-annually starting in August 2003. The methods of collection and analyses should be consistent with the Environmental Management and Monitoring Plan as set out in condition 4.1 (c).

#### 4.5 BENTHIC COMMUNITY HEALTH

- (a) Benthic community health shall be assessed in accordance with the requirements of ARC Technical Publication 168, "Blueprint for monitoring urban receiving environments" or any subsequent protocols for monitoring urban receiving environments as approved by the Manager.
- (b) The requirements of condition 4.5 (a) may be waived if written approval is obtained from the Manager.

#### 4.6 SHELLFISH CONTAMINATION

- (a) The maximum concentration of zinc in Pacific oysters within the mixing zone shall not exceed 1000mg/kg wet weight.
- (b) The maximum concentration of zinc in Pacific oysters at oyster monitoring sites outside the mixing zone shall not exceed 500mg/kg wet weight.

#### 4.7 COMPLIANCE MONITORING

- (a) The Consent Holder will assist ARC with periodic check monitoring to be carried out by facilitating an inspection of the steel mill or parts of the plant that are relevant to compliance checking resource consent conditions.

### 5 LOGGING AND REPORTING CONDITIONS:

#### 5.1 MONTHLY REPORT

- (a) The Consent Holder shall provide to the Manager a report for each calendar month that this consent is exercised. One monthly report may be prepared covering the three consents for treated process water and stormwater discharges (Permit Numbers. 983541, 983542 and 984086). The report shall include:
  - (i) All monitoring data required by the conditions 4.2 and 4.3 of this consent and will include both raw data and averages calculated to determine compliance;
  - (ii) A summary of compliance with all monitored parameters of this consent.
- (b) Data in the monthly report will be provided in a spreadsheet in a format agreed to with the Manager, and shall be provided to ARC on or before the 10<sup>th</sup> day of the month following data collection.
- (c) The Consent Holder shall maintain a record of all monitoring data for the term of the consent and these records shall be made available to any servant or agent of the Council upon request.

#### 5.2 ANNUAL REPORT

- (a) The Consent Holder shall prepare an annual report on all aspects of the treated process water and stormwater discharge from the Northside outfall, including but not necessarily limited to:
  - (i) A summary of trends in discharge water quality and quantity, and contaminant loadings in Pacific oysters, estuarine sediments from the previous 5 years;
  - (ii) The results of benthic community health monitoring (if applicable);
  - (iii) A summary of the overall environmental performance of the Glenbrook Mill in terms of treated process water and stormwater discharges from the Northside outfall, including waste minimisation, and improvements in process water and stormwater treatment and recycling;

- (iv) Other works that have been undertaken during the year to improve environmental performance, and proposed works that are intended to improve environmental performance during the next year.
- (b) The annual report is to be in a format approved by the Manager and will be provided to ARC on or before the 1st August each year.
- (c) One annual report may be prepared covering the three treated process water and stormwater discharge consents (Permit Numbers. 983541, 983542 and 984086) for the Glenbrook Mill:

### 5.3 INCIDENT REPORTING

- (a) The Consent Holder shall record all incidents that either results in non-compliance or presents a risk of serious non-compliance with any of the Table 1 maximum constituent concentrations that are not to be exceeded. These records shall be made available to a servant or agent of the ARC upon their request and a summary shall be provided to the ARC on a monthly basis.
- (b) For any incident capable of affecting human health or the biota of the estuary, the Consent Holder shall:
  - (i) As soon as practicable, inform the ARC by email and/or facsimile of the time, date and nature of the incident;
  - (ii) Provide telephone numbers or other contact details of staff;
- (c) A written Preliminary Incident Report shall be prepared and provided to ARC within three working days of any incident requiring notification under Condition 5.3 (b). The Preliminary Incident Report shall provide details of:
  - (i) The time, duration, nature and cause of the incident;
  - (ii) The volume of wastewater and/or stormwater discharged that did not comply with the maximum concentration limits;
  - (iii) The actions undertaken, including any additional monitoring;
  - (iv) An initial assessment of the environmental impact of the non-complying discharge.
- (d) A written Final Incident Report will be prepared and provided to ARC by email within 15 working days of the time of the incident requiring notification under Condition 5.3 (b). The Final Incident Report shall provide full details of:
  - (i) The incident and the cause or causes;
  - (ii) The adequacy of responses by the Consent Holder in terms of its Contingency Planning;
  - (iii) The results of all relevant routine and additional monitoring;
  - (iv) An assessment of environmental consequences;

- (v) Identification of additional safeguards that could be reasonably implemented to prevent any future recurrence;
- (vi) A programme for implementation of safeguards referred to in Condition 5.3 d(v).

6 REVIEW CONDITION:

6.1 The conditions of this consent may be reviewed by the Manager pursuant to Section 128 of the Resource Management Act 1991, by the giving of notice pursuant to Section 129 of the Act, in May 2004 and every five years thereafter in order:

- (a) To review compliance with the conditions of this consent
- (b) To review progress and improvements in waste minimisation, water recycling, and stormwater control and treatment.

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Table 1. Northside Outfall: Standards and monitoring requirements for total treated process water plus stormwater discharge. (Units mg/L except for pH temperature and mass loads).

Parameter	Maximum or range not to be exceeded	Monitoring to detect maxima	Maximum monthly average not to be exceeded	Maximum permitted average daily mass loading (kg)	Calculation to establish average
pH	6 – 9.5	a, c	N/A		-
Discharge temperature (°C)	20°C ambient temperature.	above d sea	N/A		-
Suspended solids	30	a, c	15		monthly average of results from c.
Dissolved oxygen	4 (minimum)	a	N/A		-
Oil and Grease	6	b	2		monthly average of results from b.
Zinc	1.5	a, c	0.2	1.8	monthly average <i>* Note</i> of results from c.
Chromium (total)	0.1	c	0.04	0.36	as above
Nickel	1.7	c	0.7	6.3	as above
Lead	0.1	c	0.04	0.36	as above
Copper	0.03	c	0.01	0.09	as above
Cadmium	0.1	c	0.05	0.45	as above
Iron	12.5	c	3	27	as above

Monitoring Frequency Code.

- a = single grab sample taken and analysed once daily seven days per week.
- b = single grab sample taken and analysed once per week.
- c = 24-hour flow proportional composite sample collected and analysed daily, 7 days per week.
- d = difference between daily discharge temperature and ambient sea temperature (as required in condition 4.2).

Notes: Maximum concentrations for zinc, chromium, nickel, lead, copper and cadmium are 25 times the ANZECC (2000) 95% protection level trigger values. Maximum monthly average concentrations for chromium, nickel, lead, copper and cadmium are 10 times the ANZECC (2000) 95% protection level trigger values.

Analytical lower detection limits are to be a maximum of 50% of the maximum monthly average concentrations.

Metals are to be analysed as total metals determined on unfiltered samples.

\* Maximum permitted average daily mass loading shall be based on 6 monthly (182 day) running averages.



**ADVICE NOTES:**

1. The Resource Consent Holder is advised that they will be required to pay to the Council any administrative charge fixed in accordance with Section 36(1) of the Resource Management Act 1991, or any additional charge required pursuant to Section 36(3) of the Resource Management Act 1991 in respect of this consent.
2. The Resource Consent Holder is advised that, pursuant to Section 126 of the Resource Management Act 1991, if this resource consent has been exercised, but is not subsequently exercised for a continuous period of two years, the consent may be cancelled by the Council unless other criteria contained within Section 126 are met.
3. Templates suitable for the reporting of monthly compliance data as required under condition 5.1 (b) are given in appended Tables 3 and 4.

**This consent has been granted by the Auckland Regional Council pursuant to the Resource Management Act 1991.**

Name

Manager

Section

*E. T. Grogan*  
*Contaminant Control.*

**Auckland Regional Council**

**Date:**

*1/5/2003*

Per:

Table 3: Template for reporting the daily values of the parameters listed in Table 1.

**NZ Steel: Daily Samples**

Report Date \_\_\_\_\_

Report Period \_\_\_\_\_

Reporting Person \_\_\_\_\_

Notes \_\_\_\_\_

	Physico-Chemical				General			Metals										
	Flow (Daily)	Rain (Grab)	pH (Composite)	Discharge Temperature	Ambient Sea Temperature	Temperature difference	Suspended Solids (Grab)	Suspended Solids (Composite)	Dissolved Oxygen	Oil and Grease (Weekly)	Zinc (Grab)	Zinc (Composite)	Lead (Composite)	Copper (Composite)	Chromium (Total (Composite))	Nickle (Composite)	Cadmium (Composite)	Iron (Composite)
	m <sup>3</sup> /day	mm	°C	°C	°C	°C	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Permissible level	9000	6 - 9.5	6 - 9.5			3	30	30	4	6	1.5	1.5	0.1	0.03	0.1	1.7	0.1	12.5
Date																		
Maximum																		
Minimum																		
Average																		

Table 4: Template for reporting the monthly averages of the parameters listed in Table 1.

**NZ Steel: Monthly Averages**

Reporting Person		Notes									
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	Flow	Suspended Solids (Composite)	Oil and Grease (Weekly)	Zinc (Composite)	Lead (Composite)	Copper (Composite)	Chromium (Total (Composite))	Nickle (Composite)	Cadmium (Composite)	Iron (Composite)
Units	m <sup>3</sup> /day	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Permissible level	9000	15	2	0.2	0.04	0.01	0.04	0.7	0.05	3.0
Month Year										

PERMIT NO. 21576

**AUCKLAND REGIONAL COUNCIL**

**RESOURCE CONSENT**

**Granted pursuant to the Resource Management Act 1991**

**PERMIT NO. 21576**

**CONSENT HOLDER:** BHP New Zealand Steel Limited

**FILE REFERENCE:** 3542 (Southside)

**CONDITIONS OF CONSENT:**

Date of Commencement of Consent: 15 April 2003

Duration of Consent: This consent shall expire on 31 December 2021 unless it has lapsed, been surrendered or been cancelled at an earlier date pursuant to the Resource Management Act 1991.

Date of Lapsing of Consent: Not applicable.

Purpose of Consent: To authorise the treated process water and stormwater into the coastal marine area from the Southside outfall, in accordance with Section 15 (1)(a) of the Resource Management Act 1991.

Works: Not applicable

Site Location: Mission Bush Rd. Glenbrook

Legal Description of Land: Part Allotments 318 and 319 Parish of Waiuku, being part of land described in C.T. 31A/1099

Territorial Authority: Franklin District Council

Approximate Map Reference: NZMS 260 Q12-R12 631421

**DEFINITIONS:**

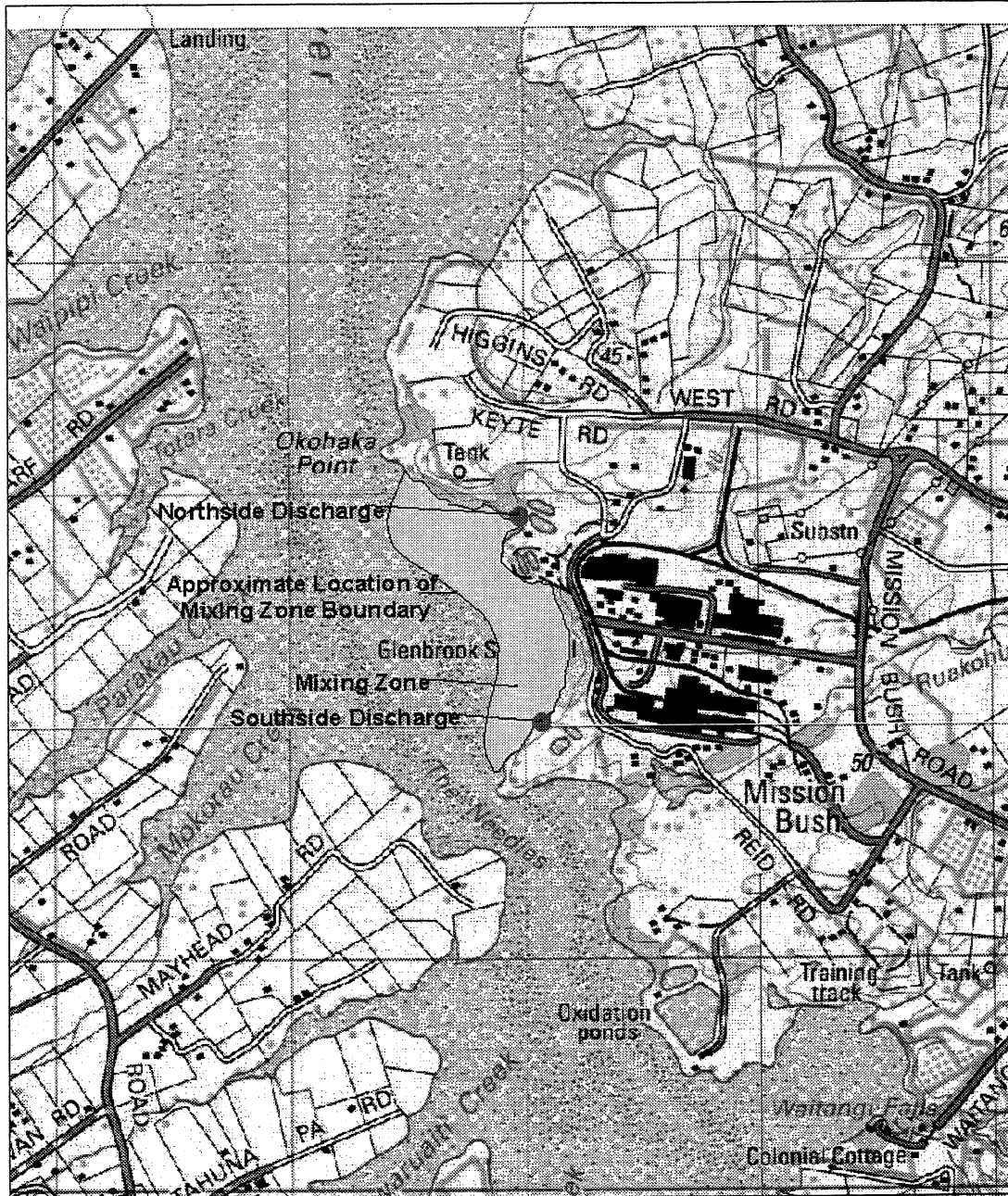
ARC: means the Auckland Regional Council.

Council: means the Auckland Regional Council.

Manager: means the Manager, Land and Water Quality, Auckland Regional Council.

Mixing Zone: means the area of estuary influenced by the discharge water and its associated contaminants as indicated on Figure 1.

Figure 1: NZ Steel Northside and Southside discharges mixing zone.



N  
Scale  
1:22796

Auckland Regional Council  
100, Queen Street, Auckland

**Legend**

□ Mixing Zone

**Source**  
Note: All data used are covered by various copyrights and may not be distributed externally.

**Confidential**  
Auckland Regional Council Use Only

"Path: j:\section\environment\research\privatel\hanel\sample sites.apr"

Date: 28 February 2003

Map Produced by: Shanek

1 GENERAL CONDITIONS:

- 1.1 The servants or agents of the Council shall be permitted access to the relevant parts of the property at all reasonable times for the purpose of carrying out inspections, surveys, investigations, tests, measurements or taking samples.
- 1.2 Servants or agents of the Council performing work specified in section 1.1 will carry out their operations in accordance with the Health and Safety requirements of NZ Steel. Where required, NZ Steel shall provide a specific safety induction to familiarise personnel with safety requirements for working on the site and to highlight potential safety hazards.
- 1.3 The Consent Holder shall, as far as practicable, operate the plant and associated processes in accordance with the documentation submitted to the Council as part of application number 983542. No alterations shall be made to the plant or processes that do not, or are not likely to, comply with the provisions of this consent, a regional rule, or regulations under the Resource Management Act 1991.

2 LIMIT CONDITIONS:

- 2.1 The total volume of treated process water plus stormwater discharged shall not exceed an average of 2000m<sup>3</sup> per day, over each calendar month.
- 2.2 The total mass loads of contaminants and the quality of the total discharge of treated process water and stormwater at the point of entry to the Waiuku estuary shall comply with the standards set out in the appended Table 1.

3 PROCESS CONDITIONS:

3.1 RECYCLING OF STORMWATER

- (a) As much as practicable of the stormwater collected from the Southside catchment shall be discharged into the mill water supply reservoir for recycling.

3.2 POND MAINTENANCE

- (a) The water level of the Southside settling pond will be lowered to allow inspection of the accumulated sediment at least once every two years.
- (b) The accumulated sediment will be removed from a pond before the in situ volume of accumulated sediment exceeds 30% of the total pond volume under low water flow conditions.

3.3 BIOCIDES DOSING

- (a) Treated process water biocide dosing shall be scheduled so that circuits are dosed consecutively and not concurrently.
- (b) Before commencing the use of a biocide that has not previously been used, or increasing the use of a biocide above a previously applied rate, the Consent Holder shall:

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- (i) Submit to the ARC such information as may reasonably be obtained on the toxicity and final effluent concentrations of the biocide, its residues and by-products;
- (ii) Provide an assessment of the potential toxicity of any residual treatment chemicals, or their by-products that remain in the discharge.
- (c) Any biocide used shall be non-toxic to humans or the marine receiving environment at the concentrations present in the permitted discharge.
- (d) All biocides shall be applied in accordance with the manufacturers specifications.

3.4 MATERIAL HANDLING, WATER SYSTEMS AND OTHER PROCESSES

- (a) The Consent Holder shall notify the ARC of any proposed changes to the raw materials, stored materials, processes, or water systems within the plant that may have a significant effect the quantity or quality of the authorised discharge. Information provided shall include a full description of the proposed changes, estimates of how the quantity and quality of the discharge is likely to be affected, and whether or not the new discharge will comply with this permit.

3.5 ASSESSMENT OF STORMWATER TREATMENT SYSTEMS

- (a) The Consent Holder shall commission an audit of the stormwater systems on the site. The audit shall provide for the following:
  - (i) Identifying the source of stormwater contaminants from the site;
  - (ii) Assessing whether storage and containment systems for hazardous substances are adequate to prevent accidental spills entering the stormwater system;
  - (iii) Assessing whether contaminated stormwater is adequately routed through treatment systems;
  - (iv) Assessing the performance of existing stormwater treatment systems and practices;
  - (v) Identifying ways of reducing contaminant loads conveyed to the settlement ponds as far as practicable;
  - (vi) Identifying priorities for improving stormwater, quantity, quality and treatment practices;
  - (vii) Recommending ways of reducing overflows, leaks or accidental discharges of untreated wastewater and chemicals into the stormwater systems;
  - (viii) Assessing whether stormwater management systems and practices comply with all relevant Regional Plans;
  - (ix) Developing a programme and timeframe for the implementation of recommended improvements.



- (b) The consent holder is required to have the stormwater audit detailed in condition 3.6 (b) reviewed by an independent expert in stormwater management.
- (c) The stormwater systems audit will be completed and forwarded to the Manager within twelve months of the granting of this consent.
- (d) One stormwater audit may be prepared covering the three treated process water and stormwater discharge consents (Permit Numbers. 983541, 983542 and 984086) for the Glenbrook Mill.

#### 4 MONITORING CONDITIONS:

##### 4.1 ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

- (a) The Consent Holder shall prepare and implement an Environmental Management and Monitoring Plan within six months of the granting of this Consent.
- (b) The Environmental Management and Monitoring Plan shall include, but not be limited to, the following specific details:
  - (i) An Environmental Policy;
  - (ii) The identification of the specific activities and contaminants associated with industrial or trade processes on-site;
  - (iii) Methods for minimising the risk of adverse environmental effects and non compliance with this consent;
  - (iv) Contingency plans for dealing with incidents that may result in non-compliance with the conditions of this consent;
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  - (viii) Methods of sample collection and laboratory analysis;
  - (ix) Requirements for the reporting of results in accordance with the conditions of this consent;
  - (x) The responsibilities for these procedures and methods.
- (c) The sampling methods, laboratory analyses and statistical analyses used for sediment quality and benthic community health required in the Environmental Management and Monitoring Plan shall be consistent with ARC protocols for monitoring urban receiving environments as outlined in ARC Technical Publication 168, "Blueprint for monitoring urban receiving environments" or any

subsequent protocols for monitoring urban receiving environments as approved by the Manager.

- (d) One Environmental Management and Monitoring Plan may be prepared covering the three treated process water and stormwater discharge consents (Permit Numbers. 983541, 983542 and 984086) for the Glenbrook Mill.
- (e) Approval for the Environmental Management and Monitoring Plan shall be obtained from the Manager.

#### 4.2 PHYSICAL AND CHEMICAL PARAMETERS

- (a) The rate of discharge of the combined treated process water and stormwater shall be monitored by means of a suitable, permanently installed continuous recorder. A back up flow monitoring system approved by the Manager shall be available at all times.
- (b) The parameters listed in the appended Table 1 shall be monitored in accordance with the collection methods and frequencies listed in the table.
- (c) A replacement flow-proportional sampler shall be available at all times to replace the on-line sampler in the event of its failure.

#### 4.3 SEA TEMPERATURE

- (a) The Consent Holder shall take weekly recordings of ambient sea temperature from a fixed location that is not influenced by heated water discharges. The depth of sampling shall be sufficient to ensure that ambient sea temperature recordings are not affected by surface heating.
- (b) Ambient sea temperature from one fixed location can be used to cover the two process water and stormwater discharge consents (Permit Numbers. 983541, 983542) for the Glenbrook Mill.
- (c) The Consent Holder shall obtain written approval from the Manager, ARC regarding the location and depth of ambient sea temperature recordings.

#### 4.4 SEDIMENT QUALITY

- (a) The Consent Holder shall collect and analyse sediment quality samples bi-annually starting in August 2003. The methods of collection and analyses should be consistent with the Environmental Management and Monitoring Plan as set out in condition 4.1 (c).

#### 4.5 BENTHIC COMMUNITY HEALTH

- (a) Benthic community health shall be assessed in accordance with the requirements of ARC Technical Publication 168, "Blueprint for monitoring urban receiving environments" or any subsequent protocols for monitoring urban receiving environments as approved by the Manager.

- (b) The requirements of condition 4.5 (a) may be waived if written approval is obtained from the Manager.

#### 4.6 SHELLFISH CONTAMINATION

- (a) The maximum concentration of zinc in Pacific oysters within the mixing zone shall not exceed 1000mg/kg wet weight.
- (b) The maximum concentration of zinc in Pacific oysters at oyster monitoring sites outside the mixing zone shall not exceed 500mg/kg wet weight.

#### 4.7 COMPLIANCE MONITORING

- (a) The Consent Holder will assist ARC with periodic check monitoring to be carried out by facilitating an inspection of the steel mill or parts of the plant that are relevant to compliance checking resource consent conditions.

### 5 LOGGING AND REPORTING CONDITIONS:

#### 5.1 MONTHLY REPORT

- (a) The Consent Holder shall provide to the Manager a report for each calendar month that this consent is exercised. One monthly report may be prepared covering the three consents for treated process water and stormwater discharges (Permit Numbers. 983541, 983542 and 984086). The report shall include:
  - (i) All monitoring data required by the conditions 4.2 and 4.3 of this consent and will include both raw data and averages calculated to determine compliance;
  - (ii) A summary of compliance with all monitored parameters of this consent.
- (b) Data in the monthly report will be provided in a spreadsheet in a format agreed to with the Manager, and shall be provided to ARC on or before the 10<sup>th</sup> day of the month following data collection.
- (c) The Consent Holder shall maintain a record of all monitoring data for the term of the consent and these records shall be made available to any servant or agent of the Council upon request.

#### 5.2 ANNUAL REPORT

- (a) The Consent Holder shall prepare an annual report on all aspects of the treated process water and stormwater discharge from the Southside outfall, including but not necessarily limited to:
  - (i) A summary of trends in discharge water quality and quantity, and contaminant loadings in Pacific oysters, estuarine sediments from the previous 5 years;
  - (ii) The results of benthic community health monitoring (if applicable);
  - (iii) A summary of the overall environmental performance of the Glenbrook Mill in terms of treated process water and stormwater discharges from the Southside outfall, including waste minimisation, and improvements in process water and stormwater treatment and recycling;

- (iv) Other works that have been undertaken during the year to improve environmental performance, and proposed works that are intended to improve environmental performance during the next year.
- (b) The annual report is to be in a format approved by the Manager and will be provided to ARC on or before the 1st August each year.
- (c) One annual report may be prepared covering the three treated process water and stormwater discharge consents (Permit Numbers. 983541, 983542 and 984086) for the Glenbrook Mill.

### 5.3 INCIDENT REPORTING

- (a) The Consent Holder shall record all incidents that either results in non-compliance or presents a risk of serious non-compliance with any of the Table 1 maximum constituent concentrations that are not to be exceeded. These records shall be made available to a servant or agent of the ARC upon their request and a summary shall be provided to the ARC on a monthly basis.
- (b) For any incident capable of affecting human health or the biota of the estuary, the Consent Holder shall:
  - (i) As soon as practicable, inform the ARC by email and/or facsimile of the time, date and nature of the incident;
  - (ii) Provide telephone numbers or other contact details of staff;
- (c) A written Preliminary Incident Report shall be prepared and provided to ARC within three working days of any incident requiring notification under Condition 5.3 (b). The Preliminary Incident Report shall provide details of:
  - (i) The time, duration, nature and cause of the incident;
  - (ii) The volume of wastewater and/or stormwater discharged that did not comply with the maximum concentration limits;
  - (iii) The actions undertaken, including any additional monitoring;
  - (iv) An initial assessment of the environmental impact of the non-complying discharge.
- (d) A written Final Incident Report will be prepared and provided to ARC by email within 15 working days of the time of the incident requiring notification under Condition 5.3 (b). The Final Incident Report shall provide full details of:
  - (i) The incident and the cause or causes;
  - (ii) The adequacy of responses by the Consent Holder in terms of its Contingency Planning;
  - (iii) The results of all relevant routine and additional monitoring;
  - (iv) An assessment of environmental consequences;
  - (v) Identification of additional safeguards that could be reasonably implemented to prevent any future recurrence;

- (vi) A programme for implementation of safeguards referred to in Condition 5.3 d(v).

6 REVIEW CONDITION:

6.1 The conditions of this consent may be reviewed by the Manager pursuant to Section 128 of the Resource Management Act 1991, by the giving of notice pursuant to Section 129 of the Act, in May 2004 and every five years thereafter in order:

- (a) To review the level of compliance with the conditions of this consent
- (b) To review progress and improvements in waste minimization, water recycling, and stormwater control and treatment.

PERMIT NO. 21576

Table 1. Southside Outfall: Standards and monitoring requirements for combined treated process water and stormwater discharge. (Units mg/L except for pH and temperature).

Parameter	Maximum or range not to be exceeded	Monitoring to detect maxima	Maximum monthly average not to be exceeded	Maximum permitted average daily mass loading (kg)	Calculation to establish average
PH	6 – 9.5	a, c	N/A		-
Discharge temperature (°C)	20°C ambient temperature.	above sea temperature.	N/A		-
Suspended solids	30	a, c	15		monthly average of results from c.
Dissolved oxygen	4 (minimum)	A	N/A		-
Oil and Grease	10	B	2		monthly average of results from b.
Zinc	1.5	a, c	0.05	0.1	monthly average of results from c.
Chromium (total)	0.1	c	0.04	0.08	as above
Nickel	1.7	c	0.7	1.4	as above
Lead	0.1	c	0.04	0.08	as above
Copper	0.03	c	0.01	0.02	as above
Cadmium	0.1	c	0.05	0.1	as above
Iron	12.5	c	3	6	as above

Monitoring Frequency Code.

- a = single grab sample taken and analysed once daily seven days per week.
- b = single grab sample taken and analysed once per week.
- c = 24-hour flow proportional composite sample collected and analysed daily, 7 days per week.
- d = difference between daily discharge temperature and ambient sea temperature (as required in condition 4.2).

Notes: Analytical lower detection limits are to be a maximum of 50% of the maximum monthly average concentrations.

Metals are to be analysed as total metals determined on unfiltered samples.

Maximum permitted average daily mass loading shall be based on 6 monthly (182 day) running averages.

**ADVICE NOTES:**

1. The Resource Consent Holder is advised that they will be required to pay to the Council any administrative charge fixed in accordance with Section 36(1) of the Resource Management Act 1991, or any additional charge required pursuant to Section 36(3) of the Resource Management Act 1991 in respect of this consent.
2. The Resource Consent Holder is advised that, pursuant to Section 126 of the Resource Management Act 1991, if this resource consent has been exercised, but is not subsequently exercised for a continuous period of two years, the consent may be cancelled by the Council unless other criteria contained within Section 126 are met.
3. Templates suitable for the reporting of monthly compliance data as required under condition 5.1 (b) are given in appended Tables 3 and 4.

**This consent has been granted by the Auckland Regional Council pursuant to the Resource Management Act 1991.**

Name *E. T. Gregg*  
Manager  
*Contaminant Control*  
Section

**Auckland Regional Council**

**Date:**

*1/8/2003*

Per:

**RESOURCE CONSENT 41027 SECTION 104 AND 108 DECISION**

**Application Description**

Consent to discharge contaminants from an industrial or trade activity

**Application and Property Details**

Consent Holder's Name: New Zealand Steel Limited

Consent Application Number: 41027

File Number: 23464

Activity: Processing of metals

Site Address: Mission Bush Road, Glenbrook

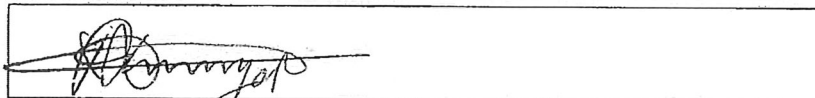
Legal Description: Lot 1 DP 202203 (NA128C/529)

**DECISION UNDER DELEGATED AUTHORITY**

Acting under delegated authority pursuant to Sections 104, 104B, 105, 107, and 108 of the RMA, consent is granted to the restricted discretionary application by New Zealand Steel Limited to discharge contaminants from an industrial trade activity at Mission Bush Road, Glenbrook being consent application 41027.

**Signed under Delegated Authority**

Rod Dissmeyer



**Group Manager – Land, Natural Resources and Specialist Input, Resource Consents**

Date: 9/5/14

**Reasons for this decision**

1. It is considered that the overall adverse effects on the receiving environment are no more than minor. Subject to the imposition of conditions, the effects can be further avoided, remedied or mitigated.
2. The proposal is considered to be consistent with the relevant provisions of the NPS, NZCPS, ACRPS, Regional Plan, and in particular, the integrated management of the region's natural and physical resources.
3. The proposal will be consistent with Part 2 of the Resource Management Act 1991 by promoting the sustainable management of natural and physical resources. Overall it is considered that the cumulative safeguards of Section 5(2)(a) to (c) have been met and the proposal thereby meets the purpose of the RMA.



4. The sensitivity of the receiving environment to the adverse effects of the discharge will not be compromised given the level of the discharge, the application of suitable control technology and appropriate on site management techniques.

## CONDITIONS

Pursuant to Section 108 of the RMA, this consent shall be subject to the following conditions:

### General conditions

#### Activity in accordance with plans

1. The activity shall be carried out in accordance with the plans and all information submitted with the application, detailed below and all referenced by Council as 41027.
- *Application Form, and Assessment of Effects* prepared by Tonkin and Taylor dated October 2012
  - *New Section 10A to Application* prepared by NZ Steel and dated 20 June 2013.

Reference number	Rev	Title	Architect/Author	Dated
Fig 2	0	NZ Steel, Industrial or Trade Process Consent Application – Overall catchment plan	HSJ	Oct 2012
Figures A- D	0	Stormwater Layout	RBS	Oct 2012
DRG 6 No 1	6	Contractors Compound Roothing and Carparks site plan and drainage	P Liete	June 2007

#### All charges paid

2. This consent (or any part thereof) shall not commence until such time as the following charges, which are owing at the time the Council's decision is notified, have been paid in full:
- (a) All fixed charges relating to the receiving, processing and granting of this resource consent under section 36(1) of the Resource Management Act 1991 (RMA); and

- (b) All additional charges imposed under section 36(3) of the RMA to enable the Council to recover its actual and reasonable costs in respect of this application, which are beyond challenge.
3. The consent holder shall pay any subsequent further charges imposed under section 36 of the RMA relating to the receiving, processing and granting of this resource consent within 20 days of receipt of notification of a requirement to pay the same, provided that, in the case of any additional charges under section 36(3) of the RMA that are subject to challenge, the consent holder shall pay such amount as is determined by that process to be due and owing, within 20 days of receipt of the relevant decision.

**Term of consent / duration**

4. Under section 125 of the RMA, this consent lapses five years' after the date it is granted unless:
- (a) The consent is given effect to; or
- (b) The Council extends the period after which the consent lapses
5. Divert and discharge stormwater / Discharge of contaminated from an industrial or trade activity permit **41027** shall expire on **31 December 2021** unless it has lapsed, been surrendered or been cancelled at an earlier date pursuant to the RMA.

**Specific conditions: Permit number 41027 – Discharge of contaminants from an Industrial or Trade Activity**

**Site management**

6. The site(s) shall be operated and managed in accordance with the Site's existing Environmental Management System (EMS) to ensure the risks from the site are managed appropriately.
7. The EMS shall be updated where and as required to include, but not be limited to:
- i) Identification of the new activities conducted on site.
  - ii) The identification of potential contaminants associated with these activities.
  - iii) An Emergency Spill Response Plan, which includes the provision that any spill of Environmentally Hazardous Substances that has entered the receiving environment, shall be reported immediately to the Auckland Council's 24 Hour Pollution Hotline (09-377-3107);
  - iv) up-to-date and accurate site drainage plans showing the locations of all relevant infrastructure and final discharge point(s) of the stormwater system relating to this consent;
  - v) appropriate auditing to ensure performance with all components relating to this consent;
  - vi) methods for providing and recording staff training.

- vii) operations and maintenance procedures specific to this consent (as outlined/ detailed in **Condition 17**); and
- viii) a Stormwater Monitoring and Maintenance Programme specific to this consent (as outlined/detailed in **Condition 10**).

*Advice Note: The intent of **Condition 7(iii)** is that any spills with the potential to compromise compliance with the conditions of this consent (specifically condition 11) be reported as soon as practicable. This is additional to the reporting of sample results showing exceedance as per **conditions 13 and 14**).*

*Environmental Hazardous Substances are as defined in the ALWP – ‘any material, chemical or substance in sufficient quantity or concentration that may result in more than minor adverse effects when released to the receiving environments [...]’.*

- 8. The relevant sections of the Environmental Management System as they relate to specific activities authorised by this consent shall be kept on site and accessible **at all times**.

*Advice Note: The provision of an EMS relates to all aspects of the sites operations. Within the EMS are SOP's that relate to specific activities in specific areas of the site. **Condition 8** requires that the relevant SOP's for the areas activities subject to this consent are kept in the relevant activity areas, regardless of location on site.*

- 9. The components of the Environmental Management System relevant to this consent shall be reviewed and updated annually from the date of granting of this consent, to ensure all components are still relevant.

*Advice Note: A summary of all revisions and the revised sections shall be submitted as part of the Annual Report required by **Condition 20** and in line with the reporting requirements of permits 21575, 21577 and 34754 being 1 August.*

#### **Stormwater monitoring and management – (SMMP)**

- 10. **Within 90 days** of granting of this consent, the Stormwater Monitoring and Management Programme for the site shall be confirmed, to assess the ongoing adequacy of the structural and procedural controls subject to this consent and shall be submitted to the Team Leader – Stormwater, Natural Resources and Specialist Input.
- 11. The Stormwater Monitoring and Management Programme shall include, but not be limited to:
  - i. Sampling location for final discharges from the site;
  - ii. Additional sampling locations on site (i.e. swale inlets, outlets of associated treatment devices etc);
  - iii. Methods and procedures for stormwater discharge sampling, including detail of sampling frequency (minimum of a quarterly basis);
  - iv. Initial Monitoring parameters for analysis shall include:

- Total Suspended Solids mg/L
  - pH
  - Copper (total) mg/L
  - Zinc (total) mg/L
  - Lead (total) mg/L
  - Chromium (total) mg/L
  - Nickel (total) mg/L
  - Iron mg/L
  - Boron mg/L
  - Aluminium mg/L
  - Total Petroleum Hydrocarbons mg/L
- v. Identified trigger levels for each of the above parameters based on previous sample results and with reference to the ANZECC Guidelines for water quality where applicable.
- vi. The methods and procedures for investigating and reporting stormwater discharge monitoring results and exceedences of identified target levels to the Team Leader – Stormwater, Natural Resources and Specialist Input.

*Advice Note: **condition (i)** refers to the final discharge point from the site to the receiving environment and is the location where exceedences are reported to council (as per consent 21577, 5.4c – incident report). **Condition (ii) and (v)** refers to discharges in site that act for NZ Steel to undertake internal investigation to locate source/manage as per EMS.*

12. The Stormwater Monitoring and Management Programme shall be implemented within **30 days** from granting of this consent.

### Incident Response

13. Within **3 days** of samples in excess of agreed target at final discharge points (as identified in **condition (11(i))**) a preliminary incident report shall be prepared and provided to Team Leader – Stormwater, NRSI.
14. The incident report shall provide details of:
- i. The time, duration, nature and cause of the incident
  - ii. The volume of stormwater/waste water discharges that did not comply with the agreed target limits
  - iii. The actions taken to avoid, remedy or mitigate the effects
  - iv. An initial assessment of the environmental impact of the non-complying discharge.

*Advice Note: **Conditions 13-14** refer specifically to the reporting of sample result exceedences. Any spills to the receiving environment are to be reported in accordance with SOPS as per condition 7(iii).*

### **Stormwater Management System (changes)**

15. Any amendments to the stormwater management system that may reduce its capacity or performance to below the level described in the application, or the levels agreed in the stormwater monitoring and management programme (whichever is the greater), shall be submitted to and approved by the Team Leader Stormwater - Natural Resources and Specialist Input in writing prior to their implementation, and shall include:
- i. Plans and drawings outlining the details of the modifications; and
  - ii. Supporting information that details how the proposal does not affect the capacity or performance of stormwater management system.
16. **Within 30 days** of practical completion of any stormwater management system, works undertaken through **condition 15**, the relevant documentation shall be added to the consent holder's EMS to satisfy the requirements of **condition 7(iv)**.

*Advice note: All proposed changes must be discussed with the Team Leader – Stormwater, Natural Resources and Specialist Input, prior to implementation. Any changes to the proposal which will affect the capacity of performance of the stormwater system or will result in a change to the conditions of this consent will require an application to be made in accordance with Section 127 of the RMA.*

### **Operation and Maintenance**

17. The consent holder shall implement and manage the onsite stormwater management system in accordance with an Operation and Maintenance Plan to ensure the system operates effectively at all times. The Operation and Maintenance Plan shall include the following but is not limited to:
- i) A programme for regular maintenance and inspection of the stormwater management system ;
  - ii) A programme for the collection and disposal of debris and sediment collected by the stormwater management devices or practices;
  - iii) A programme for post storm maintenance;
  - iv) A programme for inspection and maintenance of outfall erosion;
  - v) General inspection checklists for all aspects of the stormwater management system, including visual checks;
  - vi) A program for inspection and maintenance of vegetation associated with the stormwater management devices; and
  - vii) Details of who will hold responsibility for long-term maintenance of the stormwater management system and the organisational structure which will support this process.

18. An amended operation and maintenance plan to cover the works in **conditions 15 and 16** will be submitted to and approved by Team Leader – Stormwater, Natural Resources and Specialist Input, in writing prior to implementation.

### Reporting requirements

19. A report evaluating the site's environmental performance shall be submitted **annually** to the Team Leader – Stormwater, Natural Resources and Specialist Input on or before the date specified in the Stormwater Monitoring and Management Programme.

*Advice Note: The Annual Report required by this consent will form part of the overall reporting requirements of permits 21575, 21577 and 34754, which are currently reported on or before 1 August.*

20. The Annual Report shall include, but not be limited to:
- i) a summary description of all revisions to the environmental management system (including the Stormwater Monitoring and Management Programme) relating specifically to the implementation of this consent for the preceding **12 months**;
  - ii) a summary description of all revisions to the environmental management system (including the Stormwater Monitoring and Management Programme) relating specifically to the implementation of this consent for the preceding **12 months**;
  - iii) details of all inspections and maintenance of the stormwater system for the preceding **12 months**;
  - iv) details of and changes to the person(s) or body responsible for maintenance of site and the organisations structure supporting this process;
  - v) results and analysis of the preceding **12 months** stormwater monitoring, along with an interpretation of those results and suggestions for improvement to the site operations in relation to:
    - a. the stormwater management and treatment system,
    - b. operations and maintenance procedures including detail of any environmental factors or operational events which may have affected the results.
  - vi) a summary of any spills or incidents with potential to compromise compliance with the conditions of this consent which occurred within the preceding **12 months**; and the response which was undertaken.
  - vii) options for improvement to the site (structural or procedural as required) in light of the monitoring results from **condition 19(i) and 19(vi)**.

### Review condition

21. The conditions of this consent may be reviewed by the Auckland Council pursuant to Section 128 of the RMA, (with the costs of the review process being borne by the consent holder), by the giving of notice pursuant to Section 129 of the RMA, in one of the following years:

- June 2015
- June 2016
- June 2017

And/or at two yearly intervals after either the date of that review (if such review occurs) or after June 2015 whichever is the earlier.

The purpose of the review may be for any of the following purposes, namely:

- i) To deal with any adverse effect on the environment which may arise from the exercise of the consent or upon which the exercise of the consent may have an influence and which becomes apparent, or is found appropriate, to deal with at a later stage, and in particular but without limiting the ambit of this clause to:
  - a) insert conditions, or modify existing conditions, to require the consent holder to identify the character or nature of any discharges authorised by this consent and to report the results of that monitoring to the Auckland Council; and/or
  - b) insert conditions, or modify existing conditions, to require the consent holder to monitor the effects of any discharges authorised by this consent on the local receiving environment and to report the results of that monitoring to the Auckland Council;
  - c) the conditions may relate to the matters contained in s 108(4) of the RMA or any Act in substitution thereof.
- ii) Insert conditions, or modify existing conditions, to remedy, mitigate or minimise any adverse effects on the environment resulting from the discharges authorised by this consent, including remedying or mitigating any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage.

## ADVICE NOTES

1. Any administrative charge fixed in accordance with Section 36(1) of the Resource Management Act 1991 and any additional charge required pursuant to Section 36(3) of the Act in respect of this consent shall be paid to Auckland Council
2. This resource consent will lapse five years after the date of Council's decision unless:
  - a. It is given effect to before the end of that period. To give effect to this consent, the activity allowed by this consent must be established and the conditions contained in the consent complied with. Please note that there must be