Project Approval

Section 75J of the Environmental Planning and Assessment Act 1979

Under the Minister for Planning and Infrastructure's delegation dated 27 February 2013, I approve the application referred to in Schedule A, subject to the conditions in Schedules B to D.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts including economic and social impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the Project.

Chris Wilson Executive Director Development Assessment Systems & Approvals

28 Junk Sydney

2013

SCHEDULE A

08 0198

Application No.:

Proponent:

Consent Authority:

Land:

Development:

Independent Cement and Lime (ICL) Pty Ltd

Minister for Planning and Infrastructure

Lot 333 DP 1176879

ICL Cement Terminal Project, Mayfield North including:

- establishment of ship unloading facilities, including transfer pipelines;
- capping of the site;
- construction of two (2) 35,000 tonne capacity storage silos; and
- amenities and service buildings.

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DEFINITIONS

AHD Approval	Australian Height Datum The Minister's approval of the Project (Project Application No.
DCA	08_0198)
BCA CEMP	Building Code of Australia
Construction	Construction Environmental Management Plan
Construction	The demolition of buildings or works, carrying out of works,
	including bulk earthworks, and erection of buildings and other
Council	infrastructure covered by this approval
CSMP	Council of the City of Newcastle
Day	Contaminated Site Management Plan
Day	The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and Public Holidays
Department	Department of Planning and Infrastructure
Director-General	Director-General of Department of Planning and Infrastructure, or
Director Ceneral	delegate
EA	Environmental Assessment titled Environmental Assessment for
	Cement and Slag Receival and Dispatch Terminal, Mayfield North,
	prepared by Umwelt (Australia) Pty Limited and dated February
	2013.
ENM	Excavated Natural Material
EPA	Environment Protection Authority
EP&A Act	Environmental Planning and Assessment Act 1979
EP&A Regulation	Environmental Planning and Assessment Regulation 2000
EPL	Environment Protection Licence
Evening	The period from 6pm to 10pm
Feasible	Feasible relates to engineering considerations and what is practical
	to build
HDC	Hunter Development Corporation
Heavy vehicle	Any vehicle with a gross vehicle mass of 5 tonnes or more
Heritage	Encompasses both Aboriginal and historic heritage
	including sites that predate European settlement, and a shared
	history since European settlement such as a shared associations in
	pastoral landscapes as well as associations linked with the mission
Haritaga Itam	period.
Heritage Item	An item as defined under the <i>Heritage Act 1977</i> , and assessed as
	being of local, State and/ or National heritage significance, and/or an Aboriginal Object or Aboriginal Place as defined under the
	National Parks and Wildlife Act 1974
Mayfield Concept Plan	Major Project Approval 09_0096.
Minister	Major roject Approval 09_0090. Minister for Planning and Infrastructure, or delegate
MMP	Solid Waste (Soils) Materials Management Plan
NCC	Newcastle City Council
NPC	Newcastle Ports Corporation
NOW	NSW Office of Water - Department of Primary Industries.
Night	The period from 10pm to 7am on Monday to Saturday, and 10pm to
ç	8am on Sundays and Public Holidays
OEH	Office of Environment and Heritage
POEO Act	Protection of the Environment Operations Act 1997
Project	The Project approved by this consent and as generally described in
_	Schedule A
Proponent	Independent Cement and Lime (ICL) Pty Ltd
RAP	Remediation Action Plan for the Former BHP Mayfield Closure Site,
Reasonable	prepared by SKM, September 2004.
	Reasonable relates to the application of judgement in arriving at a

.

	decision, taking into account: mitigation benefits, cost of mitigation
	versus benefits provided, community views and the nature and
	extent of potential improvements.
Remediation	Works carried out in accordance with the approved Voluntary
	Remediation Agreement, RAP and CSMP
RLMC	Regional Land Management Corporation (now HDC)
RMS	Roads and Maritime Services Division, NSW Department of
	Transport
RTS	Response to Submissions Report titled Response to Submissions
	for Cement and Slag Receival and Dispatch Terminal, Mayfield
	North, prepared by Umwelt (Australia) Pty Ltd and dated April 2013
Site	Generally in accordance with the land referred to in the EA and
	shown in Appendix 2.
Site Auditor	A site auditor accredited by the EPA under the Contaminated Land
	Management Act 1997
Statement of	The Proponent's Statement of Commitments included in the RTS
Commitments	
Utility	Any infrastructure or service associated with water supply,
	sewerage, electricity supply, telecommunications or gas supply
VENM	Virgin Excavated Natural Material
VRA	Voluntary Remediation Agreement issued to RLMC under the
	Contaminated Land Management Act 1997 on 14 September 2005

SCHEDULE B

ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

B1. The Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation or decommissioning of the Project.

TERMS OF APPROVAL

- B2. The Proponent shall carry out the Project generally in accordance with the:
 - (a) EA;
 - (b) RTS;
 - (c) Statement of Commitments (see Appendix 5);
 - (d) Site layout plans and elevation drawings in the EIS (see Appendix 2 and 3); and
 - (e) Conditions of this approval.
- B3. If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.
- B4. The Proponent shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of:
 - (a) any reports, plans, strategies, programs or correspondence that are submitted in accordance with this approval; and
 - (b) the implementation of any actions or measures contained in these reports, plans, strategies, programs or correspondence.
- B5. The Proponent shall ensure that the Project is generally consistent with the overall environmental framework limits contained within the Mayfield Concept Plan Approval (MP 09_0096).
- B6. This approval shall lapse on 1 October 2016 unless any part of the Project is physically commenced (within the meaning of section 95 of the EP&A Act) on or before that day, in accordance with any approval or development consent, on the land to which the approval or consent relates.

LIMITS OF APPROVAL

- B7. The Proponent shall not:
 - (a) receive and dispatch more than 600,000 tonnes of cement per annum;
 - (b) receive and dispatch more that 200,000 tonnes of slag per annum and slag shall only be received by the Project in accordance with an EPL; and
 - (c) store in excess of 70,000 tonnes of cement and/or slag at any one time.
- B8. Unloading operations shall be undertaken as follows:
 - (a) in the event that Berth 3 is not operational upon commencement of operation of the Project, self discharging ships may be utilised at Berth 4;
 - (b) the Proponent shall construct the Siwertell unloader at Berth 3 within 6 months of the completion of construction of Berth 3; and
 - (c) following completion of construction of Berth 3, all unloading operations shall be undertaken from Berth 3.

STRUCTURAL ADEQUACY

B9. The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures are constructed in accordance with the relevant requirements of the BCA.

Notes:

- Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works.
- Part 8 of the EP&A Regulation sets out the detailed requirements for the certification of a Project.

STATUTORY REQUIREMENTS

B10. The Proponent shall ensure that all necessary licences, permits and approvals are obtained and kept up-to-date as required throughout the life of the Project. No condition of this approval removes the obligation for the Proponent to obtain, renew or comply with such licences, permits or approvals.

OTHER APPROVALS

- B11. Nothing in this approval will impact on:
 - (a) DA 293-08-00 as modified issued under Section 80 of the EP&A Act dated 6 April 2001; and
 - (b) any other consents or approvals issued under the EP&A Act.

PROTECTION OF PUBLIC INFRASTRUCTURE

B12. The Proponent shall:

- (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the Project; and
- (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the Project.

UTILITIES

B13. Prior to the construction of any utility works, the Proponent shall demonstrate that relevant approvals from service providers are held.

OPERATION OF PLANT AND EQUIPMENT

- B14. The Proponent shall ensure that all plant and equipment used for the Project is:
 - (a) maintained in a proper and efficient condition; and
 - (b) operated in a proper and efficient manner.

STAGED SUBMISSION OF PLANS OR PROGRAMS

- B15. With the approval of the Director-General, the Proponent may:
 - (a) submit any strategy, plan or program required by this approval on a progressive basis; and/or
 - (b) combine any strategy, plan or program required by this approval.

Notes:

- If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or
 program shall clearly describe the specific stage to which the strategy, plan or program applies, the
 relationship of this stage to any future stages and the trigger for updating the strategy, plan or
 program.
- There must be a clear relationship between the strategy, plan or program that are to be combined.

DEVELOPMENT CONTRIBUTION

B16. Within 12 months of this approval, the Proponent shall pay Council a suitable contribution for the project that has been determined generally in accordance with any applicable Section 94A Contribution Plan. If there is a dispute about the amount of the contribution, either party may refer the matter to the Director-General for resolution.

DISPUTE RESOLUTION

B17. In the event that a dispute arises between the Proponent and Council or a public authority other than the Department, in relation to a specification or requirement applicable under this approval, the matter must be referred by either party to the Director-General, or if not resolved, to the Minister, whose determination of the dispute shall be final and binding to all parties. For the purpose of this condition, 'public authority' has the same meaning as provided under Section 4 of the Act.

SCHEDULE C

ENVIRONMENTAL PERFORMANCE CONDITIONS

CONTAMINATION AND REMEDIATION

Statutory Requirements

- C1. The Proponent shall carry out the Project in accordance with the requirements of the:
 - (a) CSMP;
 - (b) VRA;
 - (c) RAP; and
 - (d) MMP.
- C2. Prior to commencement of construction, the Proponent shall provide written evidence to the Director-General, NPC, Council and HDC from the Site Auditor confirming that all proposed construction works associated with the Project meet the requirements of the documents listed in condition C1.
- C3. Prior to commencement of operation, the Proponent shall provide written evidence to the Director-General, NPC and HDC from the Site Auditor confirming that all works associated with the Project have been constructed in accordance with the requirements of the documents listed in condition C1 (including a statement that the site is suitable for the proposed use in accordance with SEPP 55).
- C4. The Proponent shall ensure access to, and the protection of, any existing and/or future groundwater monitoring wells that are required as part of the VRA. If existing monitoring bores are damaged during construction, the Proponent shall pay all costs for relocating the monitoring bore to the satisfaction of HDC.

Human Health Risk

- C5. The Proponent shall prepare and implement a Human Health Risk validation to the satisfaction of NSW Health. The validation shall:
 - (a) be prepared in consultation with the Site Auditor, EPA and NPC and be submitted to NSW Health and the Director-General prior to construction;
 - (b) be prepared in accordance with the requirements of the VRA;
 - (c) assess the risks to human health posed by potential ingress of volatile vapours into buildings and confined spaces;
 - (d) include mitigation measures that address any identified risk of harm; and
 - (e) incorporate procedures that outline a strategic Early Warning System for any incident/emergency emanating from the Project.

Imported Soil

C6. The Proponent shall:

- (a) ensure that only VENM or ENM or other material approved in writing by the EPA or the Site Auditor is used as fill on the site;
- (b) keep accurate records of the volume and type of fill to be used on site; and
- (c) make these records available to NPC, Council and the Department upon request.

TRAFFIC AND ACCESS

- C7. The Proponent shall ensure that:
 - (a) internal roads, driveways and parking (including grades, turn paths, sight distance requirements, aisle widths, aisle lengths and parking bay dimensions) associated with the Project are constructed and maintained in accordance with the latest versions of AS 2890.1 and AS 2890.2;
 - (b) the swept path of the longest vehicle entering and exiting the site, as well as manoeuvrability through the site, is in accordance with AUSTROADS;
 - (c) the Project does not result in any vehicles queuing on the public road network;
 - (d) any vehicles and bins associated with the Project do not park or stand on local roads or footpaths in the vicinity of the site;
 - (e) all vehicles are wholly contained on site before being required to stop;
 - (f) all loading and unloading of materials is carried out on site;
 - (g) all vehicles enter and exit the site in a forward direction;
 - (h) all vehicles on site do not exceed a speed limit of 30 kilometres per hour;
 - (i) the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times;
 - (j) all trucks entering or leaving the site with loads have their loads covered; and
 - (k) trucks associated with the Project do not track dirt, cement or slag onto the public road network.
- C8. The Proponent shall ensure that:
 - (a) On-site parking accommodation is provided for a minimum of 15 vehicles and set out generally in accordance with the requirements of *Element 7.03 'Traffic, Parking and Access' of Council's adopted Newcastle Development Control Plan 2012.*
 - The car park is to be designed to comply with latest versions of AS/NZS 2890.1 Parking facilities-off street parking and AS/NZS 2890.6.Parking facilities-off street parking for people with disabilities.
 - Full details are included in documentation for a Construction Certificate application.

Traffic Monitoring

- C9. The Proponent shall:
 - (b) keep accurate records of
 - the number of truck movements to and from the site demonstrating that the Project does not exceed an average of 58 bulk truck trips per day during a single calendar year (ie. 116 truck movements per day or 42,340 truck movements per year); and
 - the volume of cement and slag that is received, stored and dispatched.
 - (c) make these records available in its Annual Review; and
 - (d) provide copies of this data annually to NPC.

Construction Traffic Management Plan

- C10. The Proponent shall prepare and implement a Construction Traffic Management Plan for the Project, to the satisfaction of the Director-General. The Plan shall:
 - a) be prepared in consultation with NPC, HDC, Council and RMS by a suitably qualified and experienced expert;
 - b) be approved by the Director-General prior to construction;
 - c) detail the access and parking arrangements for the site during construction;
 - d) detail the measures to ensure that the local road network outside the scope of the Project is not utilised by heavy vehicles;

- e) detail internal traffic movements;
- f) detail the measures to control traffic movements from site;
- g) detail procedures for notifying residents of construction traffic routes and potential disruptions to routes and access; and
- h) include a detailed analysis of the impact of the Project on the road network, should temporary road closures be required during construction.

Construction Access Route

- C11. The Proponent shall prepare and submit a Road Condition Report for the construction access route. The Report shall:
 - (a) be prepared in consultation with HDC and NPC;
 - (b) be submitted to the Director-General for approval prior to commencement of construction; and
 - (c) provide details, including photographic evidence, of the condition of the road infrastructure prior to commencement of construction.
- C12. The Proponent shall repair, or pay the full costs associated with repairing, the construction access route that needs to be repaired as a result of the Project.

Operational Traffic Management Plan

- C13. The Proponent shall prepare and implement an Operational Traffic Management Plan for the Project, to the satisfaction of the Director-General. The Plan shall:
 - (a) be prepared by a suitably qualified and experienced person;
 - (b) be prepared in consultation with NPC, Council and RMS;
 - (c) be submitted to and approved by the Director-General prior to operation;
 - (d) include a plan showing the designated haulage route/s to be used by heavy vehicles;
 - (e) detail internal traffic movements;
 - (f) include a drivers code of conduct;
 - (g) describe the measures that will be implemented to ensure:
 - the nominated haulage route/s in use are coordinated with other developments in the Mayfield Concept Plan area;
 - conflicts with other road users are minimised;
 - haulage is minimised or routes altered to avoid impact on the local traffic network and in particular, school buses;
 - drivers adhere to the code of conduct;
 - compliance with the relevant conditions of this approval; and
 - (h) include a program to monitor and review the effectiveness of these measures and to implement any additional measures.

Operational Access Route

C14. Prior to commencement of operation of the Project, the Proponent shall ensure that a permanent access road to the site is provided in consultation with NPC and to the satisfaction of the Director-General.

AIR QUALITY

Discharge Limits

C15. The Proponent shall ensure the Project does not cause or permit the emission of any offensive odour (as defined in the POEO Act).

Greenhouse Gas

- C16. The Proponent shall, to the satisfaction of the Director-General, implement all reasonable and feasible measures to minimise:
 - (a) energy use on site; and
 - (b) greenhouse gas emissions for the Project.

Air Quality Discharges

- C17. The Proponent shall comply with all load limits, air quality criteria and air quality monitoring requirements as specified by the EPA in the EPL.
- C18. The Proponent shall:
 - (a) implement all reasonable and feasible mitigation measures to prevent and minimise dust and odour emissions from the Project;
 - (c) regularly assess air quality monitoring data and relocate, modify, and/or stop operations to ensure compliance with the relevant conditions of this approval;
 - (d) minimise any visible off-site air pollution that occurs as a result of this Project; and
 - (e) minimise surface disturbance within the site, other than as permitted under this approval.
- C19. Should visible dust emissions occur from the Project for a period of 10 minutes or more, the applicant must identify and implement all practicable dust mitigation measures, including cessation of relevant activities, as appropriate, such that emissions of visible dust cease.

Air Quality Management Plan

- C20. The Proponent shall prepare and implement an Air Quality and Greenhouse Gas Management Plan for the Project in consultation with the EPA and to the satisfaction of the Director-General. The Plan shall:
 - (a) be prepared by a suitably qualified and experienced person;
 - (b) be submitted for approval by the Director-General prior to construction;
 - (c) describe the measures that will be implemented to minimise air quality impacts and Greenhouse Gas Emissions;
 - (d) describes the air quality management system;
 - (e) includes an air quality and greenhouse gas emissions monitoring program;
 - (f) describes a protocol that has been agreed with NPC for the provision of input to the broader site air quality model required under the Mayfield Concept Plan; and
 - (g) provides for ongoing review and implementation of additional mitigation measures should they be required.

Notes:

• The monitoring requirements of condition C20(e) could be satisfied by the monitoring network required for the Mayfield Concept Plan, if sufficient justification is provided.

NOISE

Construction Noise Criteria

C21. The Proponent must ensure that all reasonable and feasible management and mitigation measures are employed so that construction noise generated by the Project meets the construction noise goals in Table 1.

Table 1: Construction noise criteria dB(A)

Location	Day	Evening	Night
Any private residential	L _{Aeq (15 minute})	L _{Aeq (15 minute})	L _{Aeq (15 minute})
receiver	45	40	40

Note:

 Noise generated by the Project is to be measured in accordance with the Interim Construction Noise Guideline.

Operational Noise Criteria

C22. The Proponent shall ensure that operational noise generated by the Project does not exceed the noise criteria in Table 2.

Location	Day	Evening Night		ght
N3 – 25 Kitchener Parade, Mayfield East	L _{Aeq (15 minute}) 36	L _{Aeq (15 minute}) 36	L _{Aeq (15 minute}) 36	L _{A1(1 minute)} 45
N4 - 2 Crebert Street, Mayfield	36	36	36	45
Any other residences	35	35	35	45

Table 2: Operational noise criteria dB(A)

Notes:

- To identify the locations referred to in Table 2 see Figure 1 in Appendix 4
- Noise generated by the Project is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy.
- Day is defined as the period from AM to 6PM Monday to Saturday and 8am to 6pm Sunday and public holidays;
- Evening is defined as the period 6pm to 10pm; and
- Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sunday and Public Holidays

Sound Power Limits

C23. Within 6 months of commencement of operations, the Proponent shall provide operational sound power levels (SWL) generated by the Project to the NPC in a format suitable for incorporation into the Mayfield Concept Plan Noise Model.

Construction and Operating Hours

C24. The Proponent shall comply with the construction and operation hours in Table 3 for the Project, unless otherwise agreed in writing by the EPA.

Activity	Day	Hours
o	Monday - Friday	7:00am to 6:00pm
Construction	Saturday	8:00am to 1:00pm
	Sunday & Public Holidays	Nil
Construction of silos	Monday – Sunday & Public Holidays	24 hours
Operations	Monday - Sunday	24 hours
	Public Holidays	24 hours

Table 3: Operating Hours

Operating Conditions

C25. The Proponent shall maintain the effectiveness of any noise suppression equipment on plant at all times and ensure defective plant is not used operationally until fully repaired.

Construction Noise Management Plan

- C26. The Proponent shall prepare and implement a Construction Noise Management Plan for the Project in consultation with the EPA and to the satisfaction of the Director-General. The Plan shall:
 - (a) be prepared and implemented by a suitably qualified and experienced person;
 - (b) be submitted to and approved by the Director-General prior to commencement of construction;
 - (c) describe the measures that will be implemented to ensure:
 - best management practice is being employed on site;
 - the noise impacts during construction of the Project are minimised at all times;
 - compliance with the relevant conditions of this approval; and
 - that the local community are adequately notified of the proposed construction period;
 - (d) in the event that complaints are received, include a noise monitoring program that:
 - is capable of evaluating the performance of the Project;
 - includes a protocol for determining exceedances of the relevant conditions of this approval and responding to complaints; and
 - adequately supports the noise management system; and
 - evaluates and reports on the effectiveness of the noise management system;
 - (e) describes contingencies that would be implemented, and the timing for implementation, should non compliances be detected; and
 - (f) describe a protocol that has been agreed with NPC for the provision of input into the broader Mayfield Concept Plan Site Noise Model required under the Mayfield Concept Plan.

Operational Noise Management Plan

- C27. The Proponent shall prepare and implement an Operational Noise Management Plan for the Project in consultation with the EPA and to the satisfaction of the Director-General should the Mayfield Concept Plan Noise Model not be completed prior to operation of the Project. The Plan shall:
 - (a) be prepared and implemented by a suitably qualified and experienced person;

- (b) be submitted for approval by the Director-General prior to commencement of operations;
- (c) describe the measures that will be implemented to ensure:
 - best management practice is being employed on site;
 - the noise impacts of the Project are minimised at all times; and
 - compliance with the relevant conditions of this approval;
- (d) includes a noise monitoring program that:
 - is capable of evaluating the performance of the Project;
 - includes a protocol for determining exceedances of the relevant conditions of this approval and responding to complaints;
 - adequately supports the noise management system; and
 - evaluates and reports on the effectiveness of the noise management system;
- (e) describes contingencies that would be implemented, and the timing for implementation, should non compliances be detected; and
- (f) describe a protocol that has been agreed with NPC for the provision of input into the broader Mayfield Concept Plan Site Noise Model required under the Mayfield Concept Plan.

Note:

The monitoring requirements of condition C27(d) could be satisfied by the monitoring network required for the Mayfield Concept Plan, if sufficient justification is provided to the Director-General.

SOIL AND WATER

Erosion and Sediment Control

- C28. During the construction of the Project, the Proponent shall implement suitable erosion and sediment control measures on-site, in accordance with the relevant requirements in the latest version of the Managing Urban Stormwater: Soils and Construction Guideline.
- C29. The Proponent shall not use retention basins or similar methods for controlling erosion and sediments leaving the site due to site contamination issues.

Water Licences

C30. The Proponent is required to obtain the necessary water licences and approvals for the Project under the *Water Act 1912* and/or the *Water Management Act 2000.*

Surface Water Discharge Limits

C31. The Proponent shall ensure that all surface water discharges from the site comply with the discharge limits (volume and quality) set for the Project in any EPL or relevant provisions of the POEO Act.

Stormwater and Drainage System

C32. The Proponent shall design and maintain the stormwater and drainage system for the Project in consultation with HDC, NPC and Site Auditor to the satisfaction of the Director-General.

Water Management Plan

C33. The Proponent shall prepare and implement a Water Management Plan for the Project to the satisfaction of the Director-General. This plan must be prepared in consultation

with NPC, HDC, NOW, EPA and the Site Auditor and be submitted to the Director-General for approval prior to carrying out any works on site. The Plan must include:

- a) procedures for the prevention and management of spills and leaks from the Project, including the berth, unloading facility, pipeline and storage facility; and
- b) a surface and groundwater response plan, including remedial actions and procedures that will be followed in the event of an incident.

WASTE MANAGEMENT

C34. The Proponent shall ensure that any waste generated on the site during construction and operation is classified in accordance with the EPA's *Waste Classification Guidelines* and disposed of to a facility that may lawfully accept the waste unless otherwise specified by an EPL.

Waste Management Plan

- C35. The Proponent shall prepare and implement a Waste Management Plan for the Project to the satisfaction of the Director-General. The Plan shall:
 - a) be prepared by a suitably qualified and experienced expert;
 - b) be approved by the Director-General prior to the commencement of operations;
 - c) detail the type and quantity of waste to be generated by demolition, construction, transition and operational phases of the Project;
 - d) detail the materials to be reused or recycled, either on or off site; and
 - e) detail the procedures for handling, storage, collection of recycling and disposal of waste.

VISUAL AMENITY

Construction Materials and Lighting

- C36. The Proponent shall prepare a Lighting and Material Finishes Management Plan for the terminal prior to the commencement of construction. The Plan shall:
 - (a) be prepared in consultation with NPC;
 - (b) be provided to the Director-General and NPC prior to commencement of construction;
 - (c) demonstrate that building materials will minimise the potential visual impacts of the Project; and
 - (d) ensure that the lighting associated with the Project :
 - complies with the latest version of AS 4282(INT) Control of Obtrusive Effects of Outdoor Lighting; and
 - is mounted, screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network.

Signage and Fencing

C37. The Proponent shall not install any signage or fencing on site without the written approval of the Director-General.

UTILITIES AND SERVICES

- C38. Prior to commencement of operation, the Proponent shall prepare and implement a Utilities and Services Plan to the satisfaction of the Director-General. The Plan shall:
 - (a) be prepared in consultation with relevant utility and service providers and adjacent landowners, where relevant;

- (b) include an implementation schedule which shows how all essential utilities and services are to be provided to the site;
- (c) provide a copy of all necessary approvals from relevant utility and service providers showing that access to these utilities and services is available and secured; and
- (d) include a strategy to integrate all utilities and services with the broader system to be provided by NPC for the Mayfield Concept Plan.

Note:

The intent of condition C38(d) is to ensure coordinated delivery of infrastructure across the Mayfield Concept Plan area.

HAZARDS AND RISK

C39. The Proponent shall prepare and implement procedures for the prevention and management of spills and leaks from the Project, including from Berth No. 3 and No. 4, the pipeline and the cement terminal.

Bunding

- C40. The Proponent shall store all chemicals, fuels and oils used on-site in appropriately bunded areas in accordance with the requirements of all relevant Australian Standards, and/or EPA's *Storing and Handling Liquids: Environmental Protection Participants Handbook.*
- C41. The Proponent must prepare and implement a Fire Safety Study, prior to construction of the Project. The Plan shall:
 - (a) cover the relevant aspects of the Department's Hazardous Industry Planning Advisory Paper No. 2 – Fire Safety Study Guidelines and the Best Practice Guidelines for Contaminated Water Retention and Treatment Systems;
 - (b) be prepared in consultation with adjacent landowners; and
 - (c) meet the requirements of NSW Fire and Rescue.

Note:

Construction, other than of preliminary works that are outside the scope of the Fire Safety Study, shall not commence until the study recommendations have been considered, and where appropriate, acted upon.

- C42. The Proponent shall prepare and implement an Emergency Plan for the Project, including the transfer activities at the Berth 4 and/or Berth 3, prior to operation. The plan shall:
 - (a) be prepared in consultation with NPC;
 - (b) be consistent with the Department's *Hazardous Industry Planning Advisory* Paper No. 1 – Emergency Planning; and
 - (c) detail the emergency procedures for the Project.
- C43. The Proponent shall contribute to, in so far as it relates to the Project, preparation of the following plans and audits for the Mayfield Concept Plan, in consultation with NPC:
 - (a) a Port Emergency Response Plan, consistent with the Department's Hazardous Industry Advisory Paper No. 1 Emergency Planning;
 - (b) a Safety Management System, consistent with the Department's Hazardous Industry Advisory Paper No. 9 – Safety Management; and
 - (c) hazard audits, consistent with the Department's Hazardous Industry Advisory Paper No. 5 – Hazard Audit Guidelines.

Notes:

- The intent of the condition is to ensure any cumulative hazard issues across the Mayfield Concept Plan area are identified and managed.
- The relative contribution by the Proponent and timing shall be determined in consultation with NPC, to the satisfaction of the Director-General.

SCHEDULE D ENVIRONMENTAL MANAGEMENT, REPORTING & AUDITING

Environmental Management Strategy

- D1. The Proponent must prepare and implement an Environmental Management Strategy for the Project to the satisfaction of the Director-General. This strategy shall be submitted to the Director-General prior to commencement of construction, and:
 - (a) Be prepared by a suitably qualified and experienced expert;
 - (b) provide the strategic context for environmental management of construction and operation of the Project;
 - (c) identify the statutory requirements that apply to the Project;
 - (d) describe in detail the management measures that would be implemented to address environmental issues;
 - (e) describe in general how the environmental performance of the Project would be monitored and managed;
 - (f) describe the procedures that would be implemented to:
 - keep the local community and relevant agencies informed about the operation and environmental performance of the Project;
 - receive, handle, respond to, and record complaints;
 - resolve any disputes that may arise in relation to operations at the Project;
 - respond to any non-compliance;
 - manage cumulative impacts;
 - respond to emergencies; and
 - (g) describe the role, responsibility, authority, and accountability of all the key personnel involved in environmental management of the Project.

Management Plan Requirements

- D2. The Proponent shall ensure that the management plans required under this approval are prepared in accordance with any relevant guidelines, and include:
 - (a) detailed baseline data;
 - (b) a description of:
 - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
 - any relevant limits or performance measures/criteria; and
 - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the Project or any management measures;
 - (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
 - (d) a program to monitor and report on the:
 - impacts and environmental performance of the Project; and
 - effectiveness of any management measures above);
 - (e) a contingency plan to manage any unpredicted impacts and their consequences;
 - (f) a program to investigate and implement ways to improve the environmental performance of the Project over time;
 - (g) a protocol for managing and reporting any:
 - incidents;
 - complaints;
 - non-compliances with statutory requirements; and
 - exceedances of the relevant limits and/or performance measures / criteria; and
 - (h) a protocol for periodic review of the plan.

Construction Environmental Management Plan

- D3. The Proponent shall prepare and implement a Construction Environmental Management Plan (CEMP) for the Project to the satisfaction of the Director-General. The Plan must:
 - (a) be submitted to the Director-General for approval prior to construction;
 - (b) include:
 - an erosion and sediment control plan;
 - a soil and water management plan;
 - a traffic management plan;
 - a noise and vibration management plan;
 - an air quality (dust) management plan;
 - a heritage management plan;
 - a utilities and services provision plan; and
 - a waste management plan.
- D4. The CEMP referred to in condition D3 shall include, but not necessarily be limited to:
 - (a) an outline of environmental management practices and procedures to be followed during the construction of the Project;
 - (b) a description of all activities to be undertaken on the site during construction of the Project, including an indication of stages of construction, where relevant;
 - (c) statutory and other obligations that the Proponent is required to fulfil during construction, including all approvals, consultations and agreements required from authorities and other stakeholders, and key legislation and policies;
 - (d) detailed management measures that would be implemented to address environmental issues (ie, noise, air quality, heritage, water, potential acid sulphate soil);
 - (e) specific consideration of measures to address any requirements of the Department, Council, NPC, EPA and the OEH during construction;
 - (f) details of how the environmental performance of the construction works will be monitored, and what actions will be taken to address identified adverse environmental impacts; and
 - (g) a description of the roles and responsibilities for all relevant employees involved in the construction of the Project.

REPORTING AND AUDITING

Pre-Construction Compliance

D5. Prior to the commencement of construction, the Proponent shall certify in writing to the Director-General that all the relevant conditions of this approval have been complied with and advise the Director-General of the planned construction commencement date.

Pre-Operation Compliance

D6. Prior to the commencement of operations, the Proponent shall submit 'work as executed' plans to the Department for all the development associated with the Project. These plans must be prepared by a suitably qualified and experienced expert, and include plans showing the 'work as executed' plans laid over the approved plans to demonstrate that the Project has been carried out generally in accordance with the approved plans and that the internal traffic movements comply with AS2890.1 and 2890.2.

Compliance Tracking Program

D7. The Proponent shall prepare and implement a program to track the compliance status of the Project against the conditions of this approval. The program shall be submitted to the Director-General every 3 months, or as otherwise requested in writing by the Director-General.

Incident Reporting

- D8. The Proponent shall notify the Director-General and any other relevant agencies of any incident or potential incident with actual or potential significant off-site impacts on people or the biophysical environment associated with the Project as soon as practicable after the Proponent becomes aware of the incident.
- D9. Within 6 days of notifying the incident, the Proponent shall provide a written report to the Department, EPA and NPC that:
 - (a) describes the date, time, and nature of the incident;
 - (b) identifies the cause, or likely cause, of the incident; and
 - (c) describes what action has been taken to date address the incident and what actions are proposed to be implemented in the future to either address the consequences of the incident or avoid a recurrence of the incident.

Annual Review

- D10. One year after the commencement of operation, and annually thereafter, unless the Director-General directs otherwise, the Proponent shall review the environmental performance of the Project to the satisfaction of the Director-General. The review shall:
 - (a) describe the operations that were carried out in the past year;
 - (b) analyse the monitoring results and complaints records of the Project over the past year, which includes a comparison of these results against the
 - relevant statutory requirements, limits or performance measures/criteria;
 - monitoring results of previous years; and
 - relevant predictions in the EA;
 - (a) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;
 - (b) identify any trends in the monitoring data over the life of the Project; and
 - (c) describe what measure will be implemented over the next year to improve the environmental performance of the Project.

Independent Audit

- D11. Within 1 year of the commencement of operations, and every 3 years thereafter, unless the Director-General directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the Project. The audit shall:
 - (a) be carried out by a suitably qualified, experienced and independent audit team whose appointment has been endorsed by the Director-General;
 - (b) include consultation with EPA and NPC;
 - (c) assess the environmental performance of the Project, and its effects on the surrounding environment;
 - (d) determine whether the Project is complying with the relevant standards, performance measures and statutory requirements;
 - (e) review the adequacy of the Environmental Management Strategy for the Project, compliance with the requirements of this approval, and any other licences and approvals; and, if necessary,
 - (f) recommend measures or actions to improve the environmental performance of the Project, and/or any plan/program required under this approval.

D12. Within 3 months of commissioning the audit, or as otherwise agreed by the Director-General, the Proponent shall submit a copy of the audit report to both EPA and the Director-General with a response to any recommendations contained in the audit report.

Revisions to Strategies, Plans and Programs

- D13. Within 3 months of the submission of an:
 - (a) audit under condition 11 of schedule D;
 - (b) incident report under condition 9 of schedule D;
 - (c) annual review under condition 10 of schedule D; and/or
 - (d) a modification to this approval,

the Proponent must review, and if necessary revise, the strategies, plans, and programs required under this approval to the satisfaction of the Director-General.

Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the Project.

Access to Information

- D14. From the commencement of the construction of the Project, the Proponent must make the following information publicly available on its website as it is progressively required by the approval:
 - (a) a copy of all current statutory approvals;
 - (b) a copy of the current plans and programs required under this approval;
 - (c) a summary of the monitoring results of the Project, which have been reported in accordance with the various plans and programs approved under the conditions of this approval;
 - (d) a complaints register, which is to be updated on a monthly basis;
 - (e) a copy of the Annual Reviews (over the last 5 years);
 - (f) a copy of any Independent Environmental Audit, and the Proponent's response to the recommendations in any audit; and
 - (g) any other matter required by the Director-General.

Community Consultation Strategy

D15. The Proponent shall contribute to the Community Communication Strategy required for the Mayfield Concept Plan. The level and timing of this contribution by the Proponent and timing shall be determined in consultation with NPC to the satisfaction of the Director-General.

APPENDICES



APPENDIX 1: MAYFIELD CONCEPT PLAN AREA AND SITE LOCATION PLAN

Figure 1: Mayfield Concept Plan area and site location plan, including road and rail access.

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APPENDIX 2: Project Layout Plan



Figure 1: Project layout plan.

<u>Note</u>: The boundaries of the ICL Project are yet to be finalised within Lot 333 DP 1176879. The Project will be generally in accordance with the plans submitted as part of this application, have an approximate area of 2.45 ha and would be determined at the time the lease is finalised between ICL and NPC.



APPENDIX 3: Project Section and Elevation Plans

Figure 1: Section and elevation drawings of the Project including schematic representation of the operational process.

APPENDIX 4: SENSITIVE RECEPTORS



Figure 1: Location plan illustrating proposed site plan and sensitive receivers.

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APPENDIX 5: STATEMENT OF COMMITTMENTS

The Statement of Commitments included in the EA has been revised to consider the issued raised in the response to submissions. The revised Statement of Commitments details the measures proposed by ICL for environmental mitigation, management and monitoring of the Project.

If approval is granted under Part 3A of the EP&A Act Project, ICL will commit to the following controls.

6.1 Operational Controls

- 6.1.2 To carry out the development of the Project generally in accordance with the Project Application and this EA report.
- 6.1.3 The Project will operate up to 24 hour per day 7 days per week.
- 6.1.4 The Project will handle up to 800,000 tonnes per annum in total of cement and/or slag.
- 6.1.5 <u>ICL will receive, store and distribute ground blast furnace slag in accordance</u> with the requirements of the *Protection of the Environment Operations Act 1997* and *Protection of the Environment Operations (Waste) Regulation 2005.*

6.2 Noise

6.2.1 Construction activities which are audible at any residential or other sensitive receiver will be limited to between 7.00 am and 6.00 pm Monday to Friday and 8.00 am and 1.00 pm Saturdays, with the exception being the construction of the silos and pile caps which will occur 24 hours per day for approximately four weeks and one week respectively as the concrete is poured.

Works proposed to be undertaken outside of these hours includes:

- any works that do not cause construction noise emissions to be audible at any nearby sensitive noise receiver;
- the delivery of materials as requested by the Police or other authorities for safety reasons;
- emergency work to avoid the loss of life, property and/or prevent environmental harm; and
- any other work as agreed through negotiation between ICL and potentially affected noise receivers or as otherwise agreed by the DP&I.

Noise Mitigation Measures

6.2.2 During the detailed design, procurement and commissioning processes ICL will confirm that the noise emissions from cement and slag terminal operations do not exceed the noise limits as shown in **Table 6.1**.

Location	Day	Evening	Night
Location	PSNL	PSNL	PSNL
N1 – 54 Arthur Street,	57 L _{Aeq (15 minute) 2}	54 L _{Aeq (15 minute) 2}	45 LAeq (15 minute) 2
Mayfield	52 L _{Aeq (day) 1}	49 L _{Aeg (evening) 1}	41 L _{Aeq (night) 1}
N2 – 67 Forfar Street,	42 LAeq (15 minute) 2	42 L _{Aeq (15 minute) 2}	38 L _{Aeq (15 minute) 2}
Stockton		38 L _{Aeq (evening) 1}	34 L _{Aeq (night) 1}
N3 – 25 Kitchener Parade, Mayfield East	48 L _{Aeq (15 minute) 2}	46 L _{Aeq (15 minute) 2}	44 L _{Aeq (15 minute) 2}
			39 L _{Aeq (night) 1}
N4 – 2 Crebert Street,	54 L _{Aeq (15 minute) 2}	47 L _{Aeq (15 minute) 2}	45 L _{Aeq (15 minute) 2}
Mayfield ¹			43 L _{Aeq (night) 1}
N5 – 32 Elizabeth	49 L _{Aeg (15 minute) 2}	48 L _{Aeq (15 minute) 2}	44 L _{Aeq (15 minute) 2}
Street, Carrington ¹			
N6 – 186 Fullerton	50 L _{Aeq (15 minute) 2}	50 L _{Aeg (15 minute) 2}	50 L _{Aeq (15 minute) 2}
Street, Stockton	49 L _{Aeq (day) 1}	47 L _{Aeq (evening) 1}	45 L _{Aeq (night) 1}

Table 6.1 – Project Noise Limits (dB(A))

Note 1: Amenity Criteria

Note 2: Intrusiveness Criteria

- 6.2.3 ICL shall prepare and implement a Noise Management Plan for the Project to the satisfaction of the Director-General. This plan will:
 - be prepared in consultation with EPA and NPC, and submitted to the Director-General for approval within 6 months of the date of this consent;
 - describe the measures and procedures that will be implemented to minimise noise emissions from the Project (including those associated with piling activities);
 - include a noise monitoring program to confirm compliance or otherwise with the noise emissions from the terminal do not exceed the noise limits as shown in Table 6.1; and
 - include a procedure for managing any potential noise exceedance(s).
- 6.2.4 ICL will seek to comply with the modelled operational noise emissions but will ensure noise emissions from the operation of the Project are less than the Project Specific Noise Limits.
- 6.2.5 Noise emissions from ICL's operations will be consistent with the noise goals as specified in Table 4 of the Concept Plan Approval (09- 0096).

6.3 Air Quality

Air Quality Management and Mitigation

ICL has committed to the following air quality management and mitigation measures for the Project:

Construction

6.3.1 Maintenance of appropriate dust management controls during the construction phase of the Project including minimisation of disturbed areas, watering of exposed surfaces during construction and the stabilisation of exposed areas post-construction.

Operation

- 6.3.2 Minimising any visible dust emission generated from the handling, transfer, storage and transport of cement and ground slag.
- 6.3.3 ICL shall prepare and implement an Air Quality Management Plan for the Project to the satisfaction of the Director-General. This plan will:
 - be prepared in consultation with EPA, Council and NPC, and submitted to the Director-General for approval within 6 months of the date of this consent;
 - describe all reasonable and feasible measures and procedures that will be implemented to minimise dust emissions from the handling, transfer, storage and transport of cement and ground slag; and
 - describe the measures that will be implemented should dust emission generated from the handling, transfer, storage and transport of cement and ground slag be observed.
- 6.3.4 Dust emissions from ICL's operations will be consistent with the air quality criteria as specified in Table 11-6 within the Mayfield Site Port Related Activities Concept Plan EA (AECOM 2010).

6.4 Road and Sea Traffic

Construction

6.4.1 ICL will utilise the existing Selwyn Street access point for equipment and materials transport and vehicle access.

Operational Road Traffic Control

Operational traffic management measures to be implemented include:

- 6.4.2 NPC will provide sealed access to the boundary of the proposed Cement terminal prior to the plant being commissioned.
- 6.4.3 A minimum of 15 parking spaces will be provided on-site.
- 6.4.4 The design of the access driveway, and internal access roads, will conform to Australian Standard AS 2890.2:2002 Off Street Commercial Vehicle Facilities.
- 6.4.5 Provision of appropriate access driveways and circulation roadways, as well as loading areas, which will ensure that all manoeuvring occurs on site.

6.4.6 The Project at full throughput capacity will not generate more than 58 laden trucks per day (calculated using an annual rolling average).

Operational Sea Traffic Control

- 6.4.7 ICL will liaise with NPC to ensure the efficient and coordinated passage of its ships to and from the port.
- 6.4.8 The Project at full throughput capacity will receive up to a total of 32 shipments of cement and/or slag per year (calculated using an annual rolling average).

6.5 Visual

- 6.5.1 ICL will prepare a Lighting and Material Finishes Management Plan for the terminal in consultation with NPC. A copy of the Plan will be provided to DP&I and NPC prior to the commencement of construction.
- 6.5.2 <u>ICL will position lighting so that glare or excessive light spillage will not occur</u> onto neighbouring land. External lights shall comply with Australian Standard <u>4282:1997 - Control of the Obtrusive Effects of Outdoor Lighting</u>.

6.6 Soil and Water

Construction

- 6.6.1 A Soil and Water Management Plan will be developed in accordance with the requirements of the 'Managing Urban Stormwater: Soils and Construction (Landcom 2004).
- 6.6.2 Sedimentation and erosion controls will be implemented throughout the construction phase of the Project in accordance with Managing Urban Stormwater: Soils and Construction (NSW Landcom 2004) (the Blue Book).

Operation

- 6.6.3 Runoff harvested from 'clean areas' of the site will be used on site, where possible. Excess water will be discharged directly to the existing trunk drainage network.
- 6.6.4 Runoff from 'dirty areas' will pass through a first flush system prior to being discharged to the existing trunk drainage network.

6.7 Contamination

- 6.7.1 Prior to undertaking any works confirmation from the appointed contaminated site auditor that the Project includes suitable remediation and risk management controls and compiles with the requirements of the CSMP, will be sought.
- 6.7.2 Any potential acid sulphate soils excavated from the site will be managed and treated in accordance with the measures detailed in Section 5.7.3 of the EA.

6.8 Hazard and Risk

6.8.1 The Project will not store quantities of Dangerous Goods which exceed the relevant thresholds.

6.9 Greenhouse Gas

ICL will prepare an annual Greenhouse Gas and Energy report that will be submitted to DP&I and EPA. The report will include the following:

- a) Monitoring and reporting energy efficiency indicators such as energy consumed per tonne dispatched.
- b) Assessment and implementation of energy and greenhouse management initiatives during the design and operation of the Project.
- c) Review of developments in alternative technology.
- d) Consideration of biodiesel compatibility in future procurement decisions.

6.10 Waste

6.10.1 The management of waste materials generated by the construction and operation of the Project will be managed through the design; procurement of construction materials and purchasing; identification and segregation of reusable and recyclable materials; processing materials for recycling; and considering environmental impacts for waste removal processes.

6.11 Environmental Management, Monitoring, Auditing and Reporting

Environment Management System

6.11.1 ICL will develop and implement an Environment Management System to outline the environmental management practices to be implemented during the construction and operation of the Project.

Environmental Protection Licence

6.11.2 ICL will obtain an Environmental Protection Licence for the Project prior to commencement of operations at the site.

Independent Environmental Audit

6.11.3 Three years after the commencement of the Project, and every four years thereafter, ICL will commission and pay the full cost of an Independent Environmental Audit of the Project.

Incident Reporting

6.11.4 As soon as practicable following the detection of an exceedance of the limits/performance criteria in this approval or an incident causing (or threatening to cause) material harm to the environment, the Proponent shall notify the

exceedance/incident to the appropriate regulatory authority. The notification may include the following information:

- describe the date, time, and nature of the exceedance/incident;
- identify the cause (or likely cause) of the exceedance/incident;
- describe what action has been taken to date; and
- describe the proposed measures to address the exceedance/incident.

6.12 Community Engagement

Ongoing Community Consultation

6.12.1 ICL will continue to consult with the community and other relevant stakeholders following lodgement of the EA with the DP&I, as required.

Community Enquiry Phone Number

- 6.12.2 Prior to the commencement of construction ICL will implement, publicise and list with a telephone company a contact phone number to enable the general public to reach a person who can arrange appropriate response action to the enquiry.
- 6.12.3 ICL will maintain a register to record details of all enquiries received and actions undertaken in response.
- 6.12.4 ICL will supply the DP&I with a copy of the enquiries register on an annual basis.

Participation in wider industry consultation processes

6.12.5 In consultation with NPC, ICL will as required participate in community consultation and engagement strategies.