

Department of Environment and Heritage Protection

Permit¹

Environmental Protection Act 1994

Environmental authority

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Permit¹ number: EPPR00365213

The first annual fee is payable within 20 business days of the effective date.

The anniversary date of this environmental authority is the same day each year as the effective date. An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name	Registered address
Byrne Bros. Pty Ltd	Powerhouse Accounting Pty Ltd Suite 2, 104 Breakfast Creek Road NEWSTEAD QLD 4006

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
16-(1c) Dredging >100000t but <1000000t yr 16-(3b) Screening >100000t but <1000000t yr	344 Queen Street, Maryborough 4650 - Lot 2 Plan RP87728, Lot 1 Plan PER2137, Lot 1 Plan RL2938, Lot 11 Plan M20380 and Lot 1 Plan RP96066 Adjacent to Lot 1 on M20159 Adjacent to Lot 57 on RP44652
16-(2b) Extractive >100000t but <1000000t yr 16-(3b) Screening >100000t but <1000000t yr	Hornes Road, TAKURA 4655 - Lot 7 Plan SP144149

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority is issued is a restatement of the ERA as defined by legislation at the time the approval is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an environmental authority as to the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

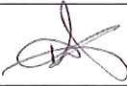
¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

An environmental authority authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the authority specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.



Signature

Kerynne Birch
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

01 September 2016

Date

Enquiries:
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Department of Environment and Heritage
Protection
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Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Conditions of environmental authority

Part 1 Site specific conditions – Mary River Dredging

Environmentally relevant activity(ies)	Location(s)
16-(1c) Dredging >100000t but <1000000t yr 16-(3b) Screening >100000t but <1000000t yr	344 Queen Street, Maryborough 4650 - Lot 2 Plan RP87728, Lot 1 Plan PER2137, Lot 1 Plan RL2938, Lot 11 Plan M20380 and Lot 1 Plan RP96066 Adjacent to Lot 1 on M20159 Adjacent to Lot 57 on RP44652

The environmentally relevant activity(ies) conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	Condition
G1	Activities conducted under this environmental authority must be conducted in accordance with approved drawings as specified in <i>Schedule 1—Approved plans</i> .
G2	All reasonable and practicable measures must be taken to minimise the likelihood of environmental harm being caused.
G3	Any breach of a condition of this environmental authority, must be reported to the administering authority as soon as practicable, or at most, within 24 hours of you becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
G4	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.

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G5	All information and records that are required by the conditions of this environmental authority must be kept for a minimum of five (5) years. Environmental monitoring results must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the administering authority upon request.
G6	An appropriately qualified person(s) must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
G7	All analyses required under this environmental authority must be carried out by a laboratory that has NATA certification, or an equivalent certification, for such analyses. The only exception to this condition is for <i>in situ</i> monitoring of pH, turbidity and dissolved oxygen.
G8	When required by the administering authority , monitoring must be undertaken in the manner prescribed by the administering authority , to investigate a complaint that is not considered by the administering authority to be frivolous or vexatious, of environmental harm arising from the activity . The monitoring results must be provided to the administering authority upon request.
G9	The activity must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the activity during routine operations, closure and an emergency 2. establish and maintain control measures that minimise the potential for environmental harm 3. ensure plant, equipment and measures are maintained in a proper and effective condition 4. ensure plant, equipment and measures are operated in a proper and effective manner 5. ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i> 6. ensure that reviews of environmental performance are undertaken at least annually.
G10	All monitoring devices must be calibrated and maintained in accordance with the manufacturer's recommendations.
G11	The dredging activity and associated operations, including unloading of dredged materials, must not cause any erosion or damage to the banks of waters or riparian vegetation growing thereon.
G12	A minimum vegetated buffer distance of five (5) metres must be maintained between all land-based activities and the top bank of the Mary River, except where necessary for providing access for the activities to the dredge and to waters .
Agency interest: Air	
Condition number	Condition
A1	Odours or airborne contaminants which are noxious or offensive or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any sensitive place or commercial place .

Agency interest: Noise	
Condition number	Condition
N1	Noise from the activity must not exceed the levels identified in <i>Schedule 2, Table 1—Noise limits</i> when measured in accordance with the associated monitoring requirements.
N2	When required by the administering authority , noise monitoring must be undertaken in accordance with the associated monitoring requirements of <i>Schedule 2, Table 1—Noise limits</i> , and the results notified within 14 days to the administering authority . Monitoring must include: 1. $L_{Aeq\ adj,T}$ 2. Background noise (Background) as $L_{A90\ adj,T}$ 3. $MaxL_{pA,T}$ 4. the level and frequency of occurrence of any impulsive or tonal noise 5. atmospheric conditions including wind speed and direction 6. effects due to extraneous factors such as traffic noise 7. location, date and time of recording.
Agency interest: Water	
Condition number	Condition
WT1	Contaminants must not be directly or indirectly released from the dredging vessel to any waters or the bed and banks of any waters except: 1. dredging wastewater, excluding fuel or hydrocarbons, which overflows from the dredge vessel during loading of dredged materials at locations for which dredging is permitted to occur 2. any incidental losses of dredged material during loading of dredged material to the vessel and unloading of such material to processing plants 3. stream bed sediments necessarily disturbed when carrying out the authorised dredging.
WT2	The only contaminants to be released to surface waters from the land-based operations site are settled wastewaters from dredge material washing and screening activities, to waters adjacent to the land described as Mary River, via the following release points illustrated in <i>Schedule 1—Approved plans</i> : 1. Release Point 1 (RP1) – outlet pipe from the fine screening plant 2. Release Point 2 (RP2) – outlet pipe from the fine sand plant 3. Release Point 3 (RP3) – outlet pipe from the fine sand stockpile 4. Release Point 4 (RP4) – outlet pipe from the filling sand stockpile
WT3	The release of contaminants to waters must comply with the release limits specified in <i>Schedule 2, Table 2—Surface water limits</i> , when monitored in accordance with the associated monitoring requirements.

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WT4	Monitoring of contaminant releases to waters must be undertaken in accordance with <i>Schedule 2, Table 2—Surface water limits</i> .
WT5	Monitoring must be conducted in accordance with the methods prescribed in the current edition of the Department of Environment and Heritage Protection Monitoring and Sampling Manual.
WT6	When required by the administering authority , monitoring must be undertaken in the manner prescribed by the administering authority , to investigate a breach of the water limits specified in <i>Schedule 2, Table 2—Surface water limits</i> . The monitoring results must be provided to the administering authority upon request.
Agency interest: Land	
Condition number	Condition
L1	Treatment and management of acid sulfate soils must comply with the current edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .
Agency interest: Waste	
Condition number	Condition
WS1	All waste generated in carrying out the activity must be reused, recycled or removed to a facility that can lawfully accept the waste.

Definitions

Key terms and/or phrases used in this document are defined in this section and **bolded** throughout this document. Applicants should note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

Activity means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

Administering authority means the Department of Environment and Heritage Protection or its successor or predecessors.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

Background means noise, measured in the absence of the noise under investigation, as L A90,T being the A-weighted sound pressure level exceeded for 90 per cent of the time period of not less than 15 minutes, using Fast response.

Commercial place means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

Dredging includes extraction of mud, sand, coral, ballast, shingle, gravel, clay, earth and other material from the bed of Queensland tidal and non-tidal **waters**. Dredging does not include the banks of a waterway.

L_{Aeq adj,T} means the adjusted A weighted equivalent continuous sound pressure level measures on fast response, adjusted for tonality and impulsiveness, during the time period T, where T is measured for a period no less than 15 minutes when the activity is causing a steady state noise, and no shorter than one hour when the approved activity is causing an intermittent noise.

MaxL_{PA,T} means the maximum A-weighted sound pressure level measured over a time period T of not less than 15 minutes, using Fast response.

Measures has the broadest interpretation and includes plant, equipment, physical objects, bunding, containment systems, monitoring, procedures, actions, directions and competency.

NATA means National Association of Testing Authorities.

Noxious means harmful or injurious to health or physical well-being.

Offensive means causing offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive.

Release of a contaminant into the environment means to:

- deposit, discharge, emit or disturb the contaminant
- cause or allow the contaminant to be deposited, discharged, emitted or disturbed
- fail to prevent the contaminant from being deposited, discharged emitted or disturbed
- allow the contaminant to escape
- fail to prevent the contaminant from escaping.

Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the Nature Conservation Act 1992, the Marine Parks Act 1992 or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.

You means the holder of the environmental authority.

Schedules

Schedule 1—Approved plans

- a. Drawing Number 1393.014, Revision 1, titled "Figure 1 – Site Location Plan", prepared by Groundwork Plus for Byrne Bros. Pty Ltd, and dated 29/01/2015.
- b. Drawing Number 1393.013, titled "Figure 2 – Extraction Operations Layout Plan", prepared by Groundwork Plus for Byrne Bros. Pty Ltd, and dated 11/10/2013.
- c. Drawing Number 1393.028, Revision B, titled "Figure 3 – Site Layout of Land Based Operations", prepared by Groundwork Plus for Byrne Bros. Pty Ltd, and dated 29/01/2015.
- d. Drawing Number 1393.015A, titled "Figure 3.1 – Site Detail Plan – Section 1", prepared by Groundwork Plus for Byrne Bros. Pty Ltd, and dated 11/10/2013.
- e. Drawing Number 1393.015B, titled "Figure 3.2 – Site Detail Plan – Section 2", prepared by Groundwork Plus for Byrne Bros. Pty Ltd, and dated 11/10/2013.
- f. Drawing Number 1393.015C, titled "Figure 3.3 – Site Detail Plan – Section 3", prepared by Groundwork Plus for Byrne Bros. Pty Ltd, and dated 11/10/2013.
- g. Drawing Number 1393.015D, titled "Figure 3.4 – Site Detail Plan – Section 4", prepared by Groundwork Plus for Byrne Bros. Pty Ltd, and dated 11/10/2013.
- h. Drawing Number 1393.015E, titled "Figure 3.5 – Site Detail Plan – Section 5", prepared by Groundwork Plus for Byrne Bros. Pty Ltd, and dated 11/10/2013.
- i. Drawing Number 1393.015F, titled "Figure 3.6 – Site Detail Plan – Section 6", prepared by Groundwork Plus for Byrne Bros. Pty Ltd, and dated 11/10/2013.

Schedule 2—Release limits

Table 1—Noise limits

Noise level measured in dB(A)	Monday to Saturday			Sunday and Public Holidays		
	7am-6pm	6pm-10pm	10pm-7am	9am-6pm	6pm-10pm	10pm-9am
	Noise measured at a nuisance sensitive place					
L_{Aeq adj,T}	Background +5	Background +3	Background +0	Background +5	Background +3	Background +0
MaxL_{pA,T}	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5
Noise measured at a commercial place						
L_{Aeq adj,T}	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5
MaxL_{pA,T}	Background +15	Background +13	Background +10	Background +15	Background +13	Background +10

Associated monitoring requirements

1. All monitoring devices must be correctly calibrated and maintained.
2. Any monitoring must be in accordance with the most recent version of the **administering authority's** Noise Measurement Manual.
3. Any monitoring of noise emissions from the **activity** must be undertaken when the **activity** is in operation.
4. **Background** is defined in this permit for the purpose of Noise release limits.

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Table 2—Surface water limits

Monitoring location/s	Water quality characteristics	Limit		Monitoring frequency
		Minimum	Maximum	
Dredging Operations				
Background sampling point ¹	Turbidity (NTU)	N/A	N/A	Concurrently with down-current turbidity sampling frequency
Down-current sampling point ²	Turbidity (NTU)	Median turbidity must not exceed the background value by more than 10%		Monthly
Land-based Operations				
Background sampling point ³	Turbidity (NTU)	N/A	N/A	Concurrently with down-current turbidity sampling frequency
Down-current sampling point ⁴	Turbidity (NTU)	Median turbidity must not exceed the background value by more than 10%		Monthly
	pH	6.5	8.5	Monthly
	Dissolved Oxygen (mg/L)	Dissolved oxygen must be ≥ 6 milligrams per litre		Monthly
	Suspended Solids (mg/L)	Suspended solids must be ≤ 50 milligrams per litre		Monthly

Associated monitoring requirements

¹ A background sampling point for **dredging** operations must be located less than 100 metres up-current of the **dredging activity**.

² A down-current sampling point must be located less than 100 metres down-current from the **dredging activity**.

³ A background sampling point for land-based operations must be located adjacent to the up-current boundary of the land-based site located in Schedule 1—Approved plans, Drawing Number 1393.028, Revision B, titled "Figure 3 – Site Layout of Land Based Operations", prepared by Groundwork Plus for Byrne Bros. Pty Ltd, and dated 29/01/2015.

⁴ A down-current sampling point must be located adjacent to the down-current boundary of the land-based site located in Schedule 1—Approved plans, Drawing Number 1393.028, Revision B, titled "Figure 3 – Site Layout of Land Based Operations", prepared by Groundwork Plus for Byrne Bros. Pty Ltd, and dated 29/01/2015.

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Part 2 Site specific conditions – Takura Quarry Site

Environmentally relevant activity(ies)	Location(s)
16-(2b) Extractive >100000t but <1000000t yr 16-(3b) Screening >100000t but <1000000t yr	Hornes Road, TAKURA 4655 Lot 7 Plan SP144149

The environmentally relevant activity(ies) conducted at the location as described above must be conducted in accordance with the following **site** specific conditions of **approval**.

Agency interest: General	
Condition number	Condition
A1	In carrying out the environmentally relevant activities, you must take all reasonable and practicable measures to prevent and / or to minimise the likelihood of environmental harm being caused. Any environmentally relevant activity, that, if carried out incompetently, or negligently, may cause environmental harm, in a manner that could have been prevented, shall be carried out in a proper manner in accordance with the conditions of this approval. <i>NOTE: This authority authorises the environmentally relevant activity. It does not authorise environmental harm unless a condition contained within this approval explicitly authorises that harm. Where there is no condition or the approval is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.</i>
A2	You must: a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and b) maintain such measures, plant and equipment in a proper and efficient condition; and c) operate such measures, plant and equipment in a proper and efficient manner. In this condition, “plant and equipment” includes: i. plant and equipment used to prevent and/or minimise the likelihood of environmental harm being caused, for example dust control systems, stormwater management systems, erosion control measures; ii. devices and structures to contain foreseeable escapes of contaminants and waste, for example bunding, pond walls; iii. devices and structures used to store, handle, treat and dispose of waste, for example settlement ponds; iv. monitoring equipment and associated alarms; and v. backup systems that act in the event of failure of a primary system.

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A3	No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment substantially increases, or is likely to substantially increase, the risk of environmental harm above that is expressly provided by this environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of 10 percent or more in the quantity of the contaminant to be released into the environment.
A4	All instruments and measuring devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated and appropriately operated and maintained.
A5	From commencement of the activity, a Site Based Management Plan (SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all Environmentally Relevant Activities that are carried out. The SBMP must address the following matters: a) environmental commitments - a commitment by senior management to achieve environmental goals; b) identification of environmental issues and potential impacts; c) control measures for routine operations to minimise likelihood of environmental harm; d) contingency plans and emergency procedures for non-routine situations; e) organisational structure and responsibility; f) effective communication; g) monitoring of the contaminant releases; h) conducting environmental impact assessments; i) staff training; j) record keeping; and k) periodic review of environmental performance and continual improvement.
A6	Record, compile and keep all monitoring results required by this document and present this information to the administering authority when requested, in a specified format.

A7	Records must be kept for five (5) years, and must include the following information: a) date of pickup of waste; b) description of waste; c) cross reference to relevant waste transport documentation; d) quantity of waste; e) origin of the waste; f) destination of the waste; and g) intended fate of the waste, for example, type of waste treatment, reprocessing or disposal. <i>NOTE: Records of documents maintained in compliance with a waste tracking system established under the Environmental Protection Act 1994 or any other law for regulated waste will be deemed to satisfy this condition.</i>
A8	You must ensure that the results of all monitoring performed in accordance with this environmental authority for the period covered by the return are submitted with the annual return.
A9	You must notify the administering authority in writing of any monitoring result, which indicates an exceedance of any licence limit. The notification must be within 28 days of completion of analysis.
A10	As soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, you must notify the administering authority of the release by telephone or facsimile.
A11	The notification of emergencies or incidents as required by condition A10 must include but not be limited to the following: a) the name of the holder of the environmental authority; b) the location of the emergency or incident; c) the number of the environmental authority; d) the name and telephone number of the designated contact person; e) the time of the release; f) the time you became aware of the release; g) the suspected cause of the release; h) the environmental harm and or environmental nuisance caused, threatened, or suspected to be caused by the release; and i) actions taken to prevent any further release and to mitigate any environmental harm caused by the release.

A12	Not more than 14 days following the initial notification of an emergency or incident, you must provide written advice of the information supplied in accordance with condition A11 in addition to: a) proposed actions to prevent a recurrence of the emergency or incident; b) outcomes of actions taken at the time to prevent or minimise environmental harm and/or environmental nuisance, and c) the results of any environmental monitoring performed.
A13	The written notification required by condition A12 above must include: a) the full analysis results; and b) details of investigation or corrective actions taken; and c) any subsequent analysis.
A14	Treatment and management of acid sulfate soils must comply with the current edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .
A15	Acid sulfate soils must be managed such that contaminants are not be directly or indirectly released, as a result of the activity, to any waters or the bed and banks of any waters .
Agency interest: Air	
Condition number	Condition
B1	The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activities must not cause a nuisance at any odour sensitive place .
B2	The release of dust and/or particulate matter resulting from the activity must not cause an environmental nuisance at any dust sensitive place .
B3	Exceedance of any of the following levels when measured at any dust sensitive place is an environmental nuisance for the purposes of condition B2. a) Dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10 of 1991; OR b) A concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere of 150 micrograms per cubic metre over a 24 hour averaging time, at a dust sensitive place downwind of the licensed place, when monitored in accordance with: - Australian Standard AS 3580.9.6 'Ambient air - Particulate matter - Determination of suspended particulate PM10 high-volume sampler with size-selective inlet - Gravimetric method'; or - any alternative method of monitoring PM10 which may be permitted by the 'Air Quality Sampling Manual' as published from time to time by the administering authority.

B4	When requested by the administering authority, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must include: a) for a complaint alleging dust nuisance, dust deposition; and b) for a complaint alleging adverse health effects caused by dust, the concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (μm) (PM10) suspended in the atmosphere of 150 micrograms per cubic metre over a 24 hour averaging time; c) must be carried out a place(s) relevant to the potentially affected dust sensitive places and upwind control sites.
B5	The environmentally relevant activities must be managed using all reasonable and practicable measures to minimise the release of wind-blown dust to the atmosphere. Reasonable and practicable measures may include but are not limited to: a) restriction of vehicular movement within the site to designated access routes; b) minimisation of exposed surface area to that within the current areas of operation; c) rehabilitation of completed areas as soon as reasonable and practicable following completion of excavation or other earthworks; d) transfer of materials in a moist state where possible; e) adoption of best industry practice environmental management for the extraction and processing of aggregates; f) use of a water cart(s) as necessary on site access roads; and g) use of water sprays to suppress dust emission while rock drilling is carried out.
B6	You must take all reasonable and practicable measures necessary to prevent spillage and/or loss of particulate matter or windblown dust from trucks used for transporting aggregates from the site. Reasonable and practicable measures may include but are not limited to: a) wetting down the load prior to transport; b) having the entire load covered with a tarpaulin or similar material for the duration of transport; and c) clearing of spillage from side rails, tail gates and draw bars of trucks prior to departure from the site and prior to departure from the premises to which the load has been delivered.
B7	Unsealed trafficable areas must be maintained at all times in a condition, which minimises the release of wind-blown or traffic-generated dust.
B8	Fine misting sprays or other appropriate control measures must be utilised at material transfer points where practicable in order to minimise the release of dust and wind-blown particulate matter to the atmosphere.
B9	Screens must be fitted with dust covers on the top deck and dust seals between decks to prevent emissions of dust.

B10	You must take all reasonable and practicable measures necessary to minimise the release of particulate matter and dust to the atmosphere from the material conveyor systems serving the crushing and screening plant. Reasonable and practicable measures may include but are not limited to: a) the installation of windshields or barriers to suppress dust emissions; and b) keeping the material conveyed in a moist state.
B11	Water sprays are to be installed and operated on the stockpiles as necessary to minimise the release of dust and particulate matter to the atmosphere.
B12	Rehabilitation must be carried out in such a manner as to minimise releases of wind-blown dust and erosion to the atmosphere.
B13	Access to areas awaiting or being rehabilitated must be restricted by suitable barriers to prevent disturbance of these areas.
Agency interest: Water	
Condition number	Condition
C1	Erosion protection measures and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment. The size of any sedimentation dam must be sufficient to contain the run-off expected from a 24 hour storm with an average recurrence interval of 1 in 5 years. Sediment released to the bed of the receiving waters , affected by process water and stormwater contaminated by activities, can only be released when in compliance with the limits in <i>Schedule 3, Table 1—Sediment release limits</i> .
C2	Contaminants, other than permitted by condition C1, must not be directly or indirectly released from the licensed place to any waters or the bed and banks of any waters .

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C3	Prior to commencement of the extraction of rock or other materials for sale from the quarry authorised by this environmental authority you must develop and implement a Surface Water Monitoring Program. The Surface Water Monitoring Program must: a) be designed and supervised by a person possessing appropriate qualifications and experience in the field of surface water monitoring program design to be able to competently make recommendations about these matters; b) record the quality of the surface water potentially affected by the activities authorised by this environmental authority and at locations upstream and downstream of the activities and be undertaken for, but not be limited to, the parameters defined in <i>Schedule 3, Table 1—Sediment release limits</i> and for the following water quality characteristics: - oils and petroleum hydrocarbons (mg/L); - pH; - total dissolved solids (mg/L); - dissolved oxygen (mg/L); c) give consideration to relevant methodology and water quality criteria specified by the Australian and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand in "Australian Guidelines for Water Quality Monitoring and Reporting 2000" and "Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000"; and d) be submitted to the administering authority.
C4	A record of the results of the surface water monitoring program including background water quality monitoring must be kept and forwarded to the administering authority on request.
C5	Chemicals (including paints and solvents), fuels (and other hydrocarbons), cement and concrete must be stored and handled so as to prevent the release or likelihood of release of contaminants. Such materials must be stored well away from stormwater drains and pits.
C6	All unsealed roadways and other trafficked areas associated with the operation of the environmentally relevant activities must be formed and maintained so that contamination of stormwater by clay, soil etc from those areas is minimised.
C7	The maintenance and cleaning of vehicles, earthmoving equipment and fixed or mobile plant or equipment must be carried out in areas from where contaminants cannot be released into any waters , roadside gutter or stormwater drainage system.
C8	Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillage must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any stormwater drainage system, roadside gutter or waters .
C9	Stormwater runoff from disturbed areas, processing and stockpile areas and unsealed access roadways must be directed to the catchment dams.
C10	Uncontaminated stormwater must be diverted away from disturbed areas, processing and stockpile areas, unsealed access roadways and the catchment dams to the greatest extent practicable.

Agency interest: Land	
Condition number	Condition
D1	Contaminants must not be released to land .
D2	Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm. <i>NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids.</i>
D3	The base and walls of all bunded areas must be maintained free from gaps or cracks.
D4	There must be no release or likelihood of release of any contaminants to land where that release may cause environmental harm or contribute to contamination of such land .
D5	You must rehabilitate the site in a manner such that: a) suitable native species of vegetation are planted and established; b) potential for erosion of the site is minimised; c) the quality of stormwater runoff originating from the licensed place is such that its discharge from the licensed place is not likely to cause environmental harm; d) the likelihood of environmental nuisance being caused by release of dust is minimised; and e) the final landform is stable and not subject to slumping.
D6	Notwithstanding condition D5, rehabilitation of disturbed areas must take place progressively as works are staged and new areas of extraction are commenced within the licensed place.
D7	At least three (3) months prior to ceasing carrying out the environmentally relevant activities at the site you must submit to the administering authority a Site Rehabilitation and Decommissioning Report (SRDR) detailing measures proposed to minimise the likelihood of any environmental harm being caused during or after the decommissioning or rehabilitation as a consequence of the carrying out of the environmentally relevant activities, decommissioning or rehabilitation.
D8	The Site Rehabilitation and Decommissioning Report (SRDR) must address the following: a) a rehabilitation plan for the site taking into account the final use of the land and relevant environmental considerations including but not limited to: i. the proposed shaping of the final landform after rehabilitation including an assessment of the stability of all batter slopes; ii. proposed nature of materials utilised and techniques employed for any proposed backfilling of extracted areas such as filling, compacting, topsoiling, overburden return and any other soil amelioration leading to vegetation establishment; and iii. a program and timetable for all works proposed. b) prevention or treatment of the release of contaminated stormwater runoff from raw material stockpiles and disturbed areas to the bed or banks of any watercourse.

Agency interest: Noise and vibration	
Condition number	Condition
E1	Notwithstanding any other condition of this environmental authority, no activities that are likely to generate significant noise (e.g. crushing, blasting) may be carried out: a) outside the hours of 7.00 am to 6.00 pm Mondays to Fridays; b) outside the hours of 7.00 am to 2.00 pm Saturdays; c) on Sundays; d) on public holiday(s); or e) on Christmas Day, Good Friday or Anzac Day.
E2	Notwithstanding any other condition of this environmental authority, no activities that are likely to give rise to noise complaints may be carried out: a) outside the hours of 6.30 am to 6.00 pm Mondays to Fridays; b) outside the hours of 6.30 am to 2.00 pm Saturdays; c) on Sundays; d) on public holiday(s); or e) on Christmas Day, Good Friday or Anzac Day.
E3	In the event of a complaint about noise that constitutes annoyance being made to the administering authority, that the administering authority considers is not frivolous or vexatious, then the emission of noise from the site, except for blasting noise, must not result in levels greater than those specified in <i>Schedule 3, Table 2—Noise limits</i>.
E4	When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include: a) background noise level; b) $L_{A, \max \text{ adj, T}}$ or where established as being appropriate $L_{A10, \text{adj } 15\text{mins}}$; c) the level and frequency of occurrence of impulsive or tonal noise; d) atmospheric conditions including wind speed and direction; e) overpressure level (dB linear peak.) (for blast monitoring only); f) effects due to extraneous factors such as traffic noise; and g) location, date and time of recording.
E5	The method of measurement and reporting of noise levels must comply with the current edition of the Department of Environment and Heritage Protection <i>Noise Measurement Manual</i>.
E6	The measurement and reporting of noise levels must be undertaken by a person or body possessing both the qualifications and the experience appropriate to perform the required measurements.

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E7	All blasting must be carried out in a proper manner by a competent person in accordance with best practice environmental management to minimise the likelihood of adverse effects being caused by the impact of airblast overpressure and ground borne vibrations on noise sensitive places and people living in or using the surrounding area.
E8	Noise from blasting operations must not exceed an airblast overpressure level of 115 dB (linear peak) for more than one (1) blast out of any four (4) consecutive blasts when measured at a noise sensitive place .
E9	Noise from blasting operations must not exceed an airblast overpressure level of 120 dB (linear peak) at any time when measured at a noise sensitive place .
E10	Noise from blasting must be measured using noise measurement equipment with a lower limiting frequency of 2 Hz [-3 dB response point of the measurement system] and a detector onset time of not greater than 100 µsec as assessed in accordance with AS 1259.
E11	Vibration emitted from activities must not cause a nuisance at any vibration sensitive place .
E12	Vibration emitted from activities must not exceed the levels specified in <i>Schedule 3, Table 3—Vibration limits (Sensitive place)</i> at any vibration sensitive place .
E13	When requested by the administering authority , vibration monitoring and recording must be undertaken to investigate any complaint of nuisance, and the results notified within 14 days to the administering authority . Monitoring must include: a) peak particle velocity (mm/s); and b) location of the blast/s within the site (including which bench level); and c) atmospheric conditions including temperature, relative humidity and wind speed and direction; and d) the level and frequency of occurrence of impulsive or tonal noise; e) atmospheric conditions including wind speed and direction; f) effects due to extraneous factors; and g) location, date and time of recording.
E14	The ground-borne vibration transducer (or array) must be attached to a mass of at least 30 kg to ensure good coupling with the ground where the blast site and the measurement site cannot be shown to be on the same underlying strata. The mass shall be buried so that its uppermost surface is at the same level as the ground surface.
E15	The ground-borne vibration transducer (or array) must be placed at a distance of at least the longest dimension of the foundations of a noise-affected building or structure away from such building or structure, between that building or structure and the site of the blasting.
E16	Measurements of airblast overpressure should be taken at a location which is exposed to the blasting and is at least 3.5 metres from any noise-affected building or structure, at a position between 1.2 metres and 1.5 metres above the ground or between 1.2 metres and 1.5 metres above each floor level of interest.

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E17	Records must be kept of the results of all monitoring of noise levels (including blasting noise and ground vibration levels) and other information required to be recorded in conjunction with such monitoring for a period of at least five (5) years.
Agency interest: Waste	
Condition number	Condition
F1	Procedures must be implemented to ensure that wastes are minimised, recycled, stored, handled and transferred in a proper and efficient manner and that any disposal of waste (excepting any release of waste provided for by a condition of this environmental authority) is to a facility appropriate to accept such waste.
F2	You must not: a) burn waste at or on the site; or b) allow waste to burn or be burnt at or on the site; or remove waste from the site and burn such waste elsewhere.
F3	Records of trade waste agreements must be made available to an authorised person for inspection on request.
F4	Where regulated waste is removed from the site (other than by a release as permitted under another schedule of this environmental authority), you must monitor and record the following: a) the date, quantity and type of waste removed; b) the name of the waste transporter and/or disposal operator that removed the waste; and c) the intended treatment and/or disposal destination of the waste. <i>NOTE: Records of documents maintained in compliance with a waste tracking system established under the Environmental Protection Act 1994 will be deemed to satisfy this condition.</i>
F5	Regulated waste must not be sent for disposal at any facility without the written approval of the person operating that facility.
F6	Procedures must be implemented to ensure that the disposal of wastes generated in carrying out the environmentally relevant activities is to an appropriate facility that accepts such wastes, except as specifically provided for under the conditions of this environmental authority.
F7	All regulated waste removed from the site to which this environmental authority relates must be removed by a person who holds a current authority to transport such waste under the provisions of the <i>Environmental Protection Act 1994</i> .

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Agency interest: Community	
Condition number	Condition
G1	All complaints received must be recorded including investigations undertaken, conclusions formed and action taken. This information must be made available to the administering authority on request.
G2	In consultation with the administering authority , cooperate with and participate in any community environmental liaison committee established in respect of either the site specifically or the industrial estate where the site is located.

Definitions

Words and phrases used throughout this licence or environmental authority are defined below.

Where a definition for a term used in this **approval** is sought and the term is not defined within this **approval** the definitions provided in the *Environmental Protection Act 1994*, its regulations, and Environmental Protection Policies shall be used.

Administering authority means the Department of Environment and Heritage Protection or its successor or predecessors.

Background noise level means either—

- $L_{A90, T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period not less than 15 minutes, using Fast response, or
- $L_{avg, T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.

Commercial place means a place used as an office or for business or commercial purposes.

Dwelling means any of the following structures or vehicles that is principally used as a residence—

- a house, unit, motel, nursing home or other building or part of a building;
- a caravan, mobile home or other vehicle or structure on land;
- a water craft in a marina.

Dust sensitive place means—

- a **dwelling**, mobile home or caravan park, residential marina or other residential place;
- a motel, hotel or hostel;
- a kindergarten, school, university or other educational institution;
- a medical centre or hospital;
- a **protected area**;
- a park or gardens; or
- a place used as an office or for business or commercial purposes; and
- includes the curtilage of any such place.

$L_{A, max adj, T}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.

Land in the "land schedule" of this document means land excluding **waters** and the atmosphere.

mg/L means milligrams per litre.

Noise sensitive place means—

- a **dwelling**, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or

- a **protected area**; or
- a park or gardens.
- and includes the curtilage of such place.

Noxious means harmful or injurious to health or physical well-being.

Odour sensitive place has the same meaning as a "**dust sensitive place**".

Offensive means causing offence or displeasure; is disagreeable to the sense; disgusting, nauseous or repulsive.

Protected area means—

- a protected area under the *Nature Conservation Act 1992*; or
- a marine park under the *Marine Parks Act 1992*; or
- a World Heritage Area.

Regulated waste means non-domestic waste mentioned in Schedule 7 of the Environmental Protection Regulation 2008 (whether or not it has been treated or immobilised), and includes—

- for an element – any chemical compound containing the element; and
- anything that has contained the waste.

Site means the place to which this environmental authority relates.

Vibration sensitive place means a **noise sensitive place** or a **commercial place**.

Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.

You means the holder of this environmental authority or owner / occupier of the land which is the subject of this environmental authority.

Schedules

Schedule 3—Release limits

Table 1—Sediment release limits

Monitoring point	Release point	Parameter	Maximum release limit	Monitoring frequency
Any points on the site boundary where water affected by the activities is released from the site	Any points on the site boundary where water affected by the activities are released from the site	Suspended Solids (mg/L)	50	Daily in the event of a release

Table 2—Noise limits

Time period	Noise level at a 'Noise sensitive place' measured as the Adjusted Maximum Sound Pressure Level $L_{A, \text{max adj, T}}$
7am - 6pm	Background noise level plus 5 dB(A)
6pm - 10pm	Background noise level plus 5 dB(A)
10pm - 7am	Background noise level plus 3 dB(A)
Time period	Noise level at a 'Commercial place' measured as the Adjusted Maximum Sound Pressure Level $L_{A, \text{max adj, T}}$
7am - 6pm	Background noise level plus 10 dB(A)
6pm - 10pm	Background noise level plus 10 dB(A)
10pm - 7am	Background noise level plus 8 dB(A)

Note: $L_{A, 10, \text{adj, 15 mins}}$ levels may be substituted for $L_{A, \text{max adj, 15 mins}}$ levels if evidence is provided that $L_{A, 10, \text{adj, 15 mins}}$ levels are representative of component noise levels from source(s)/premises under investigation.

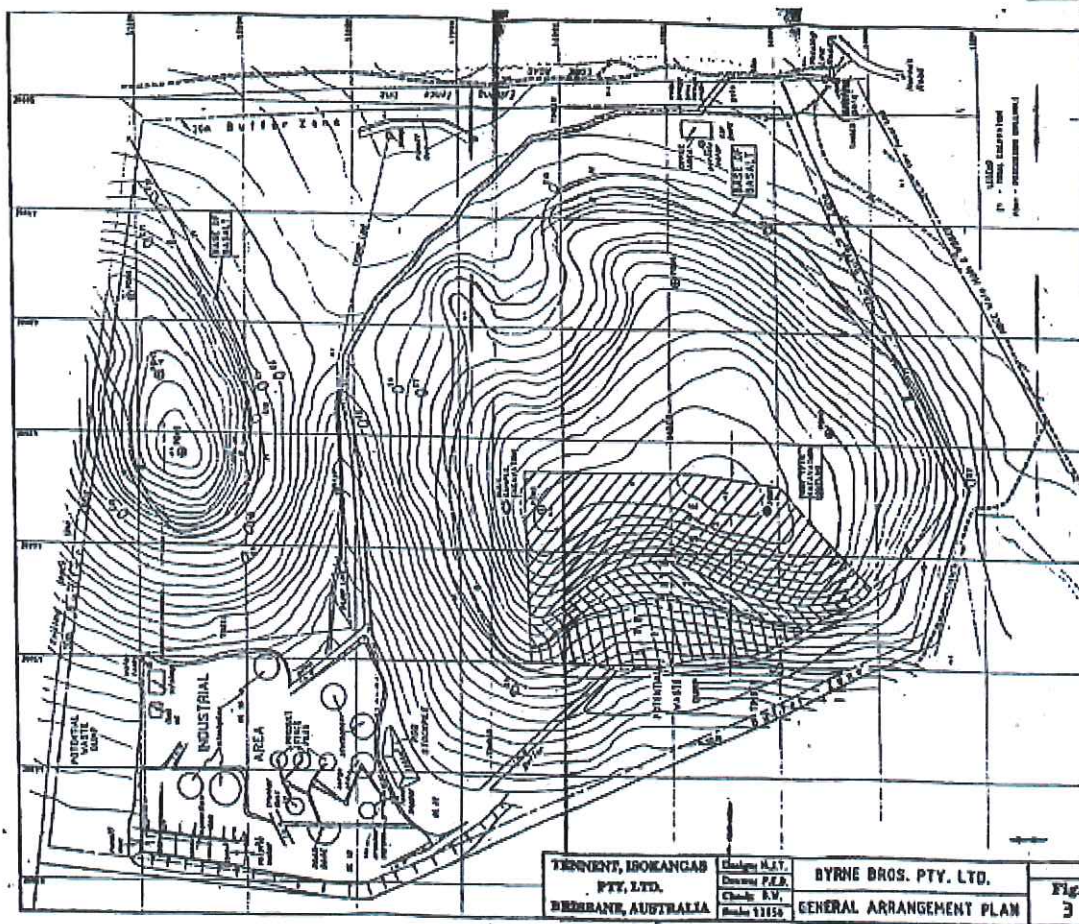
Wb

Table 3—Vibration limits (Sensitive place)

Vibration parameter	Vibration measured at a 'Sensitive place'	
	Monday to Friday 9am - 3pm Saturday 9am - 1pm	All other times and public holidays
Houses and low rise residential buildings and commercial buildings not included below.	5 mm/s	No blasting to occur
Commercial and industrial buildings or structures of reinforced concrete or steel construction.	10 mm/s	No blasting to occur

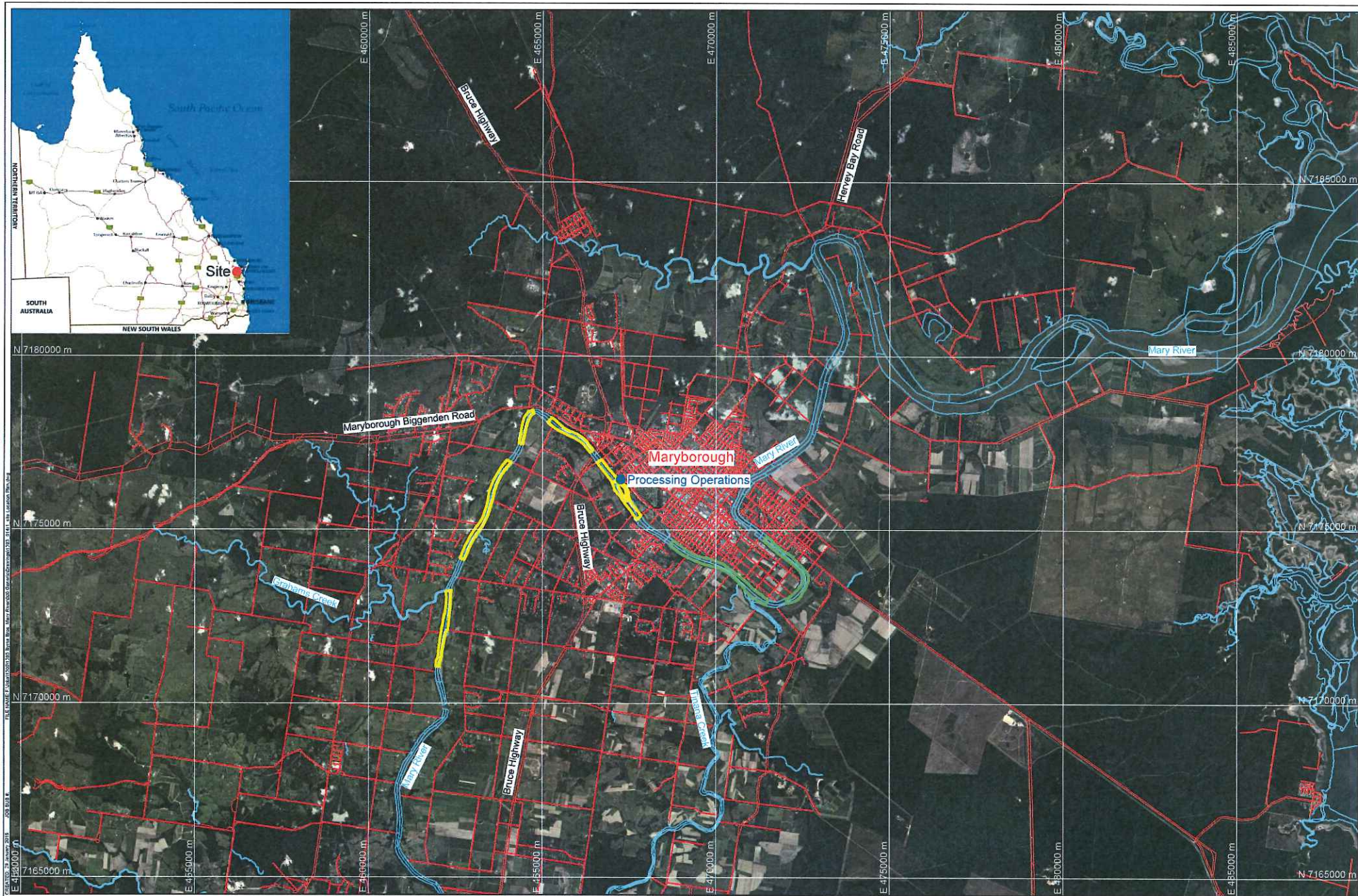
vb

Schedule 4—Maps / Plans



END OF PERMIT

us.



REV	DESCRIPTION	DATE	BY
1	Added processing operations	28/01/13	LT

Data Sources:
 Photography: Aerialmap, Image date: 2013-06-18
 Cadastre: Geographical
 Other:

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Legend:

- Existing Approved Dredge Zone
- Proposed Dredge Zone
- Cadastral Boundary - Road
- Cadastral Boundary - Watercourse

● Processing Operations Location



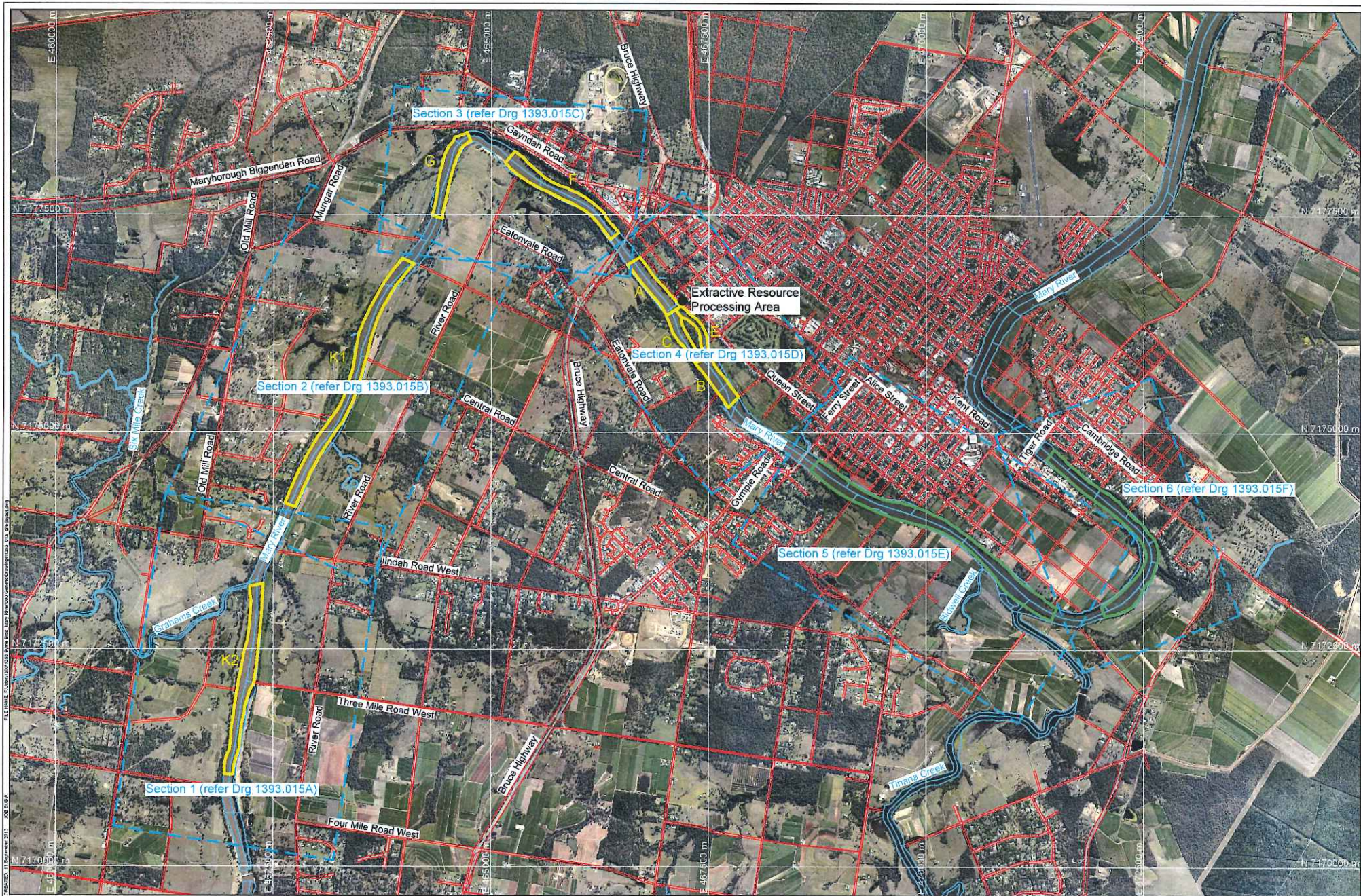
PROJECT: Mary River, Maryborough

CLIENT: Byrne Bros. Pty Ltd

Figure 1 - Site Location Plan

SCALE: 1:100,000	0 2km	DRAWING NUMBER: 1393.014	REVISION: 1
DATE: 28 January 2013	DRAWN: LT	DATE: 28 January 2013	CHECKED: EG
PRINTED: 28 January 2013	WWW.GROUNDWORKPLUS.COM.AU	PH: +61 7 55971 0411	FIG 1

Schedule 1 - Approved Plans



REV	DESCRIPTION	DATE	BY
1	Issue for Approval	11 October 2013	DA
2	Issue for Approval	11 October 2013	DA
3	Issue for Approval	11 October 2013	DA
4	Issue for Approval	11 October 2013	DA
5	Issue for Approval	11 October 2013	DA
6	Issue for Approval	11 October 2013	DA
7	Issue for Approval	11 October 2013	DA
8	Issue for Approval	11 October 2013	DA
9	Issue for Approval	11 October 2013	DA
10	Issue for Approval	11 October 2013	DA

Legend:

- Existing Approved Extraction Area
- Proposed Extraction Area
- Cadastral Boundary - Road
- Cadastral Boundary - Watercourse

Detail Drawing (refer Drg 1393.015A-F)



Mary River, Maryborough

Byrne Bros. Pty Ltd

Figure 2 - Extraction Operations Layout Plan

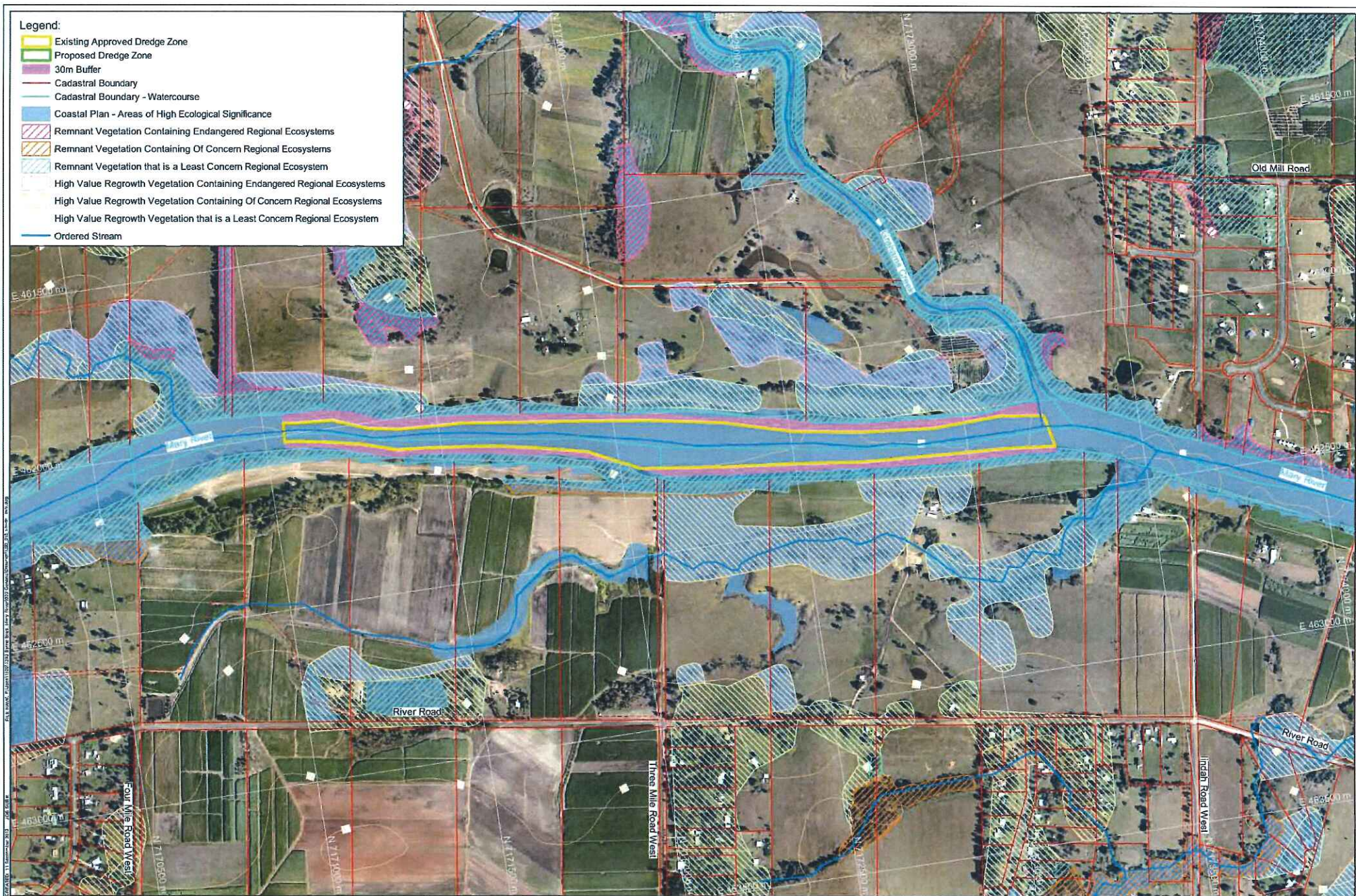
GROUNDWORK plus	SCALE 1:40,000 0 800	ORIGINATOR NUMBER 1393.013	REVISION
PH: +61 7 3871 0411 WWW.GROUNDWORK.COM.AU	DATE: 11 October 2013 PRINTED: 11 October 2013	DRAWN: [blank] CHECKED: [blank]	DATUM: HORIZONTAL / VERTICAL ZONE MSA / [blank]

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Note: Release points marked as per email from Phil Walmsley on 13.07.15. See eDOCS reference 101/0014775.

wb



REV	DESCRIPTION	DATE	BY
1	Initial Design	11/10/2011	JB
2	Revised Design	11/10/2011	JB
3	Final Design	11/10/2011	JB

Data Sources:
 - Planning: Planning Inspectorate (2011-2012)
 - Cadastral: The State of Queensland, Department of Natural Resources and Water
 - Coastal: Coastal Management Act 1995
 - Other: Other

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 THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE USER'S OWN PURPOSES.


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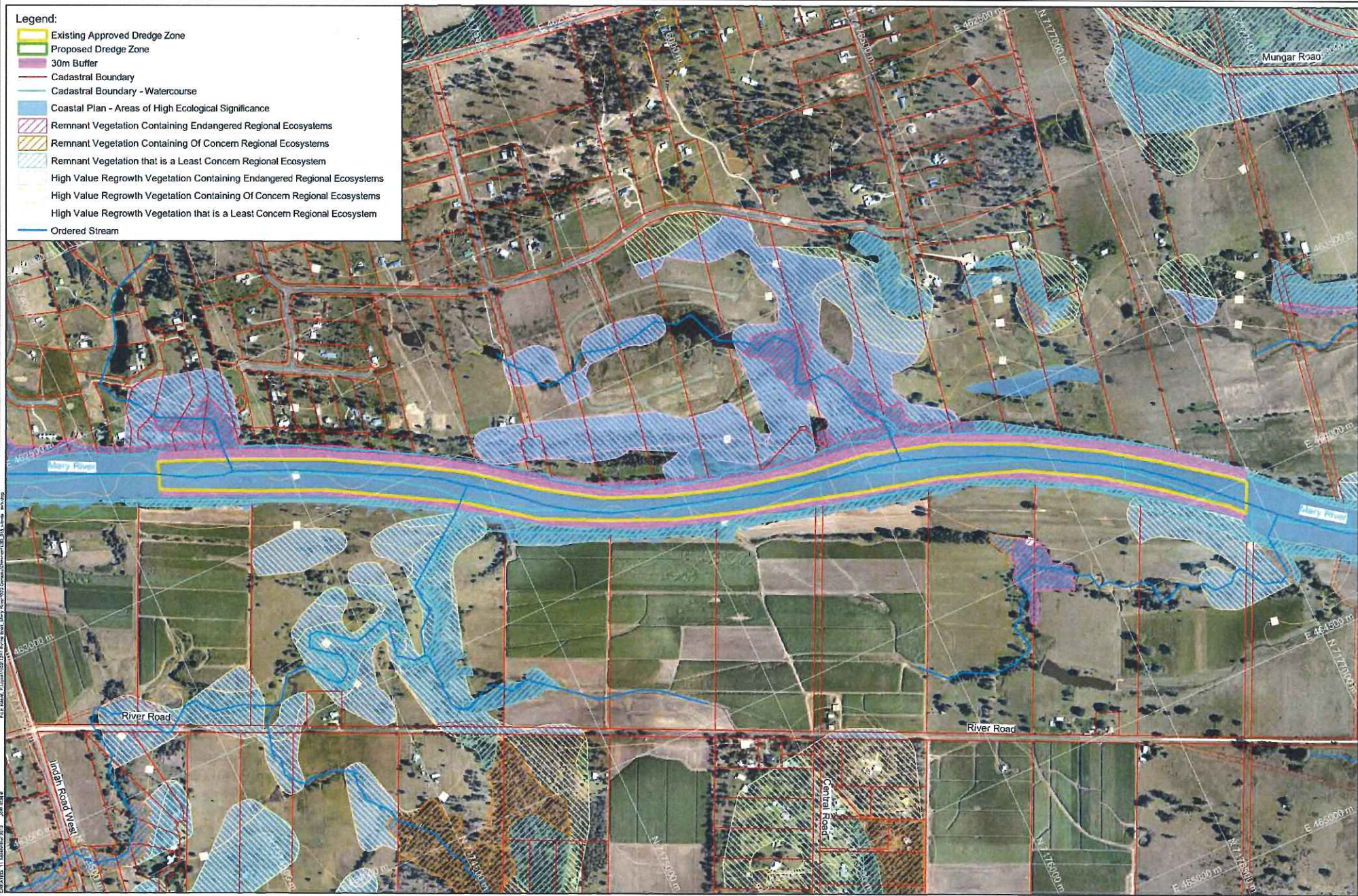
Figure 3.1 - Site Detail Plan - Section 1
 SCALE: 1:10,000
 DATE: 11 October 2011
 PRINTED: 11 October 2011
 CHECKED: JB

DRAWING NUMBER: 1393.015A
 REVISION: 11
 DATE: 11 October 2011
 CHECKED: JB
 SCALE: 1:10,000
 DATE: 11 October 2011
 PRINTED: 11 October 2011
 CHECKED: JB

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- Legend:**
- Existing Approved Dredge Zone
 - Proposed Dredge Zone
 - 30m Buffer
 - Cadastral Boundary
 - Cadastral Boundary - Watercourse
 - Coastal Plan - Areas of High Ecological Significance
 - Remnant Vegetation Containing Endangered Regional Ecosystems
 - Remnant Vegetation Containing Of Concern Regional Ecosystems
 - Remnant Vegetation that is a Least Concern Regional Ecosystem
 - High Value Regrowth Vegetation Containing Endangered Regional Ecosystems
 - High Value Regrowth Vegetation Containing Of Concern Regional Ecosystems
 - High Value Regrowth Vegetation that is a Least Concern Regional Ecosystem
 - Ordered Stream



REV	DESCRIPTION	DATE	BY

Data Sources:
 Photogrammetry: Digital Aerial Imagery (2013)
 Topography: New South Wales State of Environment, State of Victoria, State of Western Australia
 Cadastral: State of Victoria
 Other:

NOTES: PERSONS AND PLACES ARE SHOWN AS THEY WERE AT THE TIME OF THE PHOTOGRAPHY. THIS PLAN IS NOT TO BE USED FOR ANY PURPOSES WITHOUT THE WRITTEN PERMISSION OF GROUNDWORK PLUS.



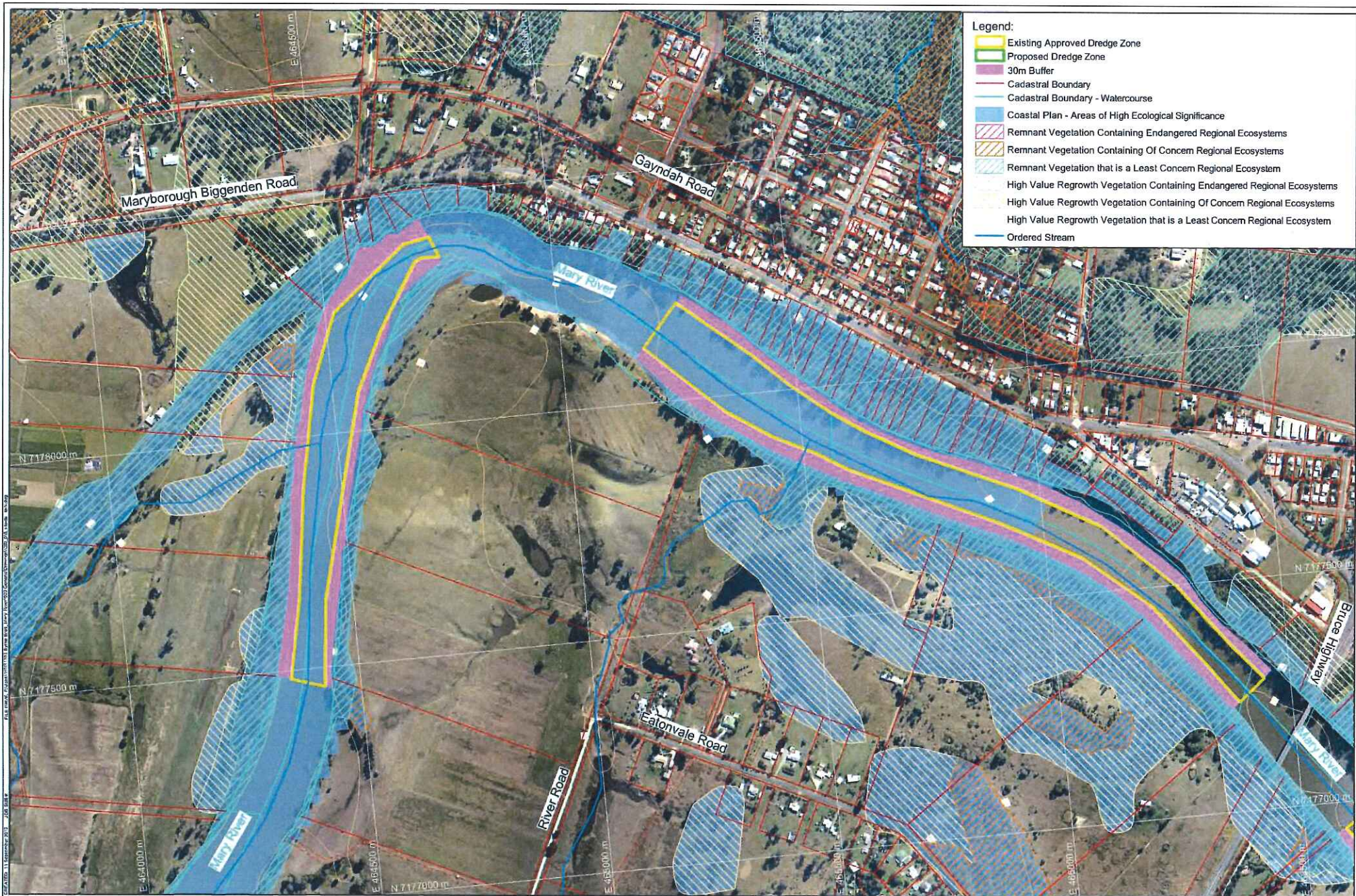
Mary River, Maryborough

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Figure 3.2 - Site Detail Plan - Section 2

GROUNDWORK plus	SCALE: 1:10,000	0 200	DRAWING NUMBER: 1393.015B	REVISION:
PH: 461 7 3871 0411 www.groundworkplus.com.au	DATE: 11 October 2013	DRAWN: LT	DATUM: HORIZONTAL (VERTICAL) DUNE	MSA / AND / 18
PRINTED: 11 October 2013	CHECKED: 23			

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REV	DESCRIPTION	DATE	BY
1	Initial Design	11 October 2013	JB
2	Revised Design	11 October 2013	JB
3	Final Design	11 October 2013	JB

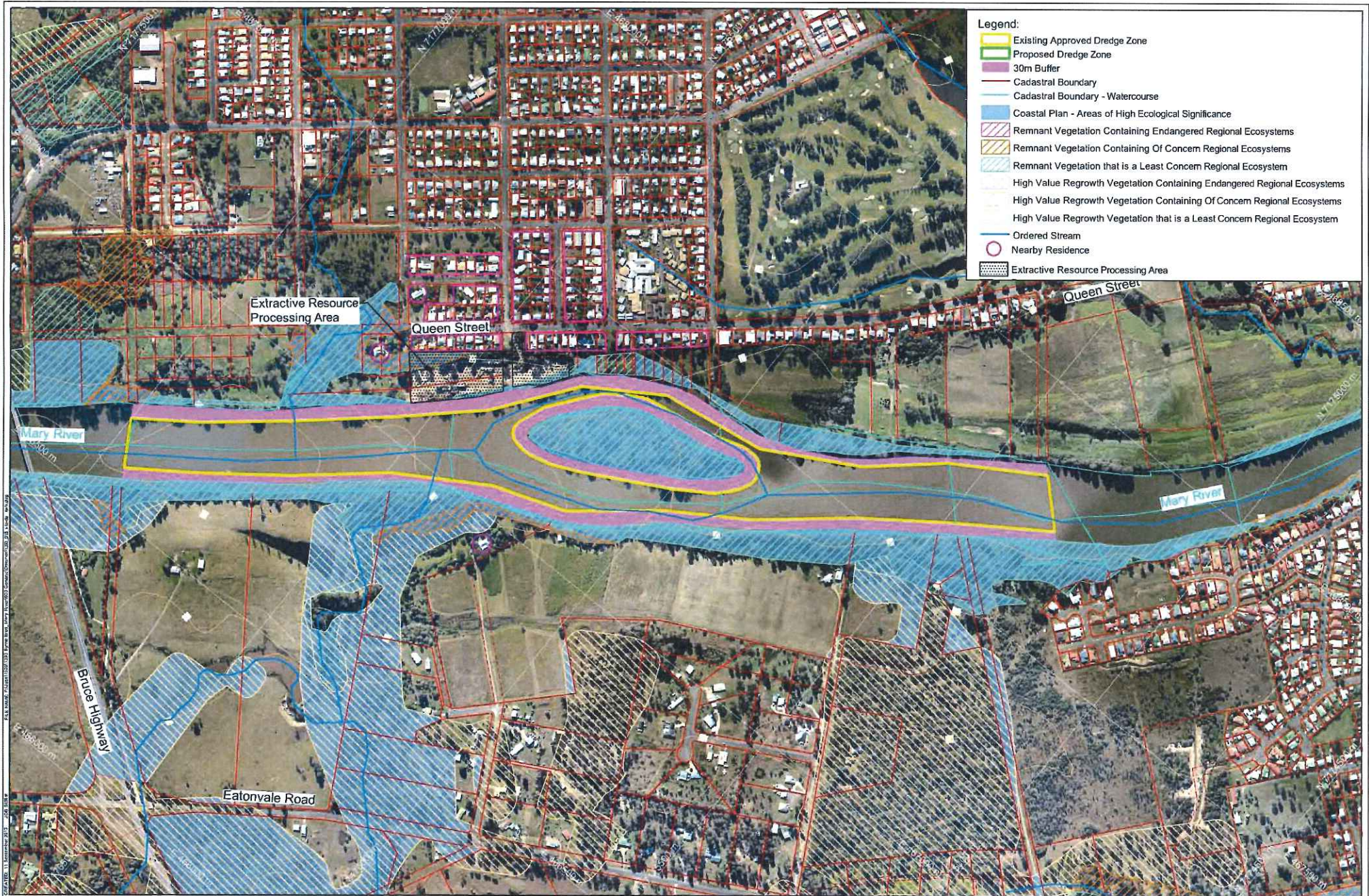


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Figure 3.3 - Site Detail Plan - Section 3

GROUNDWORK	SCALE 1:7,500	0 150	DRAWING NUMBER 1393.015C	REVISIONS
PH: +61 7 3871 0433 WWW.GROUNDWORKS.COM.AU	DATE 11 October 2013	DRAWN JB	DATE 11 October 2013	CHECKED JB
			STATUS HORIZONTAL VERTICAL	ISS MSA / AG / JS



REV	DESCRIPTION	DATE	BY

Data Sources:
 Environment: Department of Environment and Heritage
 Topography: New South Wales Department of Environment and Heritage
 Cadastral: Department of Environment and Heritage
 Other:

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PROJECT Mary River, Maryborough	TITLE Figure 3.4 - Site Detail Plan - Section 4
CLIENT Byrne Bros. Pty Ltd	SCALE 1:7,500
DRAWING NUMBER 1393.015D	DATE 11 October 2013
PLOT 1:7,500	DRAWN 11 October 2013
CHECKED 11 October 2013	PRINTED 11 October 2013

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REV	DESCRIPTION	DATE	BY
1	Initial Design	11/10/2013	WJ
2	Revised Design	11/10/2013	WJ
3	Final Design	11/10/2013	WJ

Data Sources:
 Photogrammetry: Aerial imagery dated 2012-2013
 Topography: The State of Queensland, 1:50,000, Future Coast
 Cadastral:
 Other:

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Figure 3.5 - Site Detail Plan - Section 5

GROUNDWORK	SCALE: 1:10,000	0 200	DRAWING NUMBER: 1393.015E	REVISION:
DATE: 11 October 2013	DRAWN: WJ	CHECKED: WJ	DATUM: HORIZONTAL VERTICAL ZONE	MSA 1 AND 1 35
PRINTED: 11 October 2013	CHECKED: WJ			

