

DEVELOPMENT APPLICATION

MATERIAL CHANGE OF USE WITHIN BOULIA SHIRE COUNCIL RURAL ZONE

**PROPOSED EXTRACTION ACTIVITY ON
ROAD RESERVE (SEGMENT PARCEL 63/28) AND
WATERCOURSE (SEGMENT PARCEL 63/120)**

MAY 2018



TABLE OF CONTENTS

Part A	Planning Report
Part B	Environmental Assessment and Operations Plan
Part C	Quarry Material Allocation Notice
Part D	Vegetation Clearing Relevant Purpose Under Section 22a of the Vegetation Management Act 1999
Part E	Burke River Sand Extraction (170087-SK1/01)
Part F	DA Form 1 – Development Application Details
Part G	DA Form 1 – Application for an Environmental Authority
Part H	State Code 15 – Removal of Quarry Material from a Watercourse or Lake
Part I	State Code 16 – Native Vegetation Clearing
Part J	State Code 22 – Environmentally Relevant Activities

PART A

PLANNING REPORT

PLANNING REPORT

DEVELOPMENT PERMIT – MATERIAL CHANGE OF USE BURKE RIVER SAND EXTRACTION

On Segment Parcels 63/28 Road Reserve and 63/120 Watercourse

Prepared on Behalf of P.E. & G.C. Harris Road Constructors

MAY 2018



Document Control

		Prepared by:		Approved by:	
Rev	Name	Review / Release	Comment	Name/Signature	Date
A	William Green	Review	Draft	No approval required	20/11/2017
B	Jake Brown	Review	Draft	No approval required	20/11/2017
1	William Green	Release	Approve	William Green	15/05/2018

GBA File/Doc no. 170087 / 266570

Contact for enquiries and proposed changes

If you have any questions regarding this document or if you have a suggestion for improvements, please contact:

Project Manager William Green
Phone 07 4651 5177

TABLE OF CONTENTS

1. INTRODUCTION.....	1
2. SUMMARY	2
2.1. DEVELOPMENT APPLICATION DETAILS.....	2
2.2. PLANNING INSTRUMENT DETAILS	2
2.3. REFERRAL AGENCIES	3
3. SITE DETAILS.....	3
3.1. SITE DESCRIPTION.....	3
4. PROPOSED DEVELOPMENT DETAILS.....	6
5. PLANNING ASSESSMENT	7
5.1. State interests	7
5.2. PRE-LODGEMENT.....	13
5.3. KEY ISSUES	14
6. STATE ASSESSMENT AND OTHER MATTERS.....	14
6.1. PRE-LODGEMENT MEETING	14
6.2. EARLY REFERRAL RESPONSES	15
7. SUMMARY OF SUPPORTING INFORMATION	15
8. CONCLUSION.....	16
APPENDIX 1 – PRE-LODGEMENT ADVICE	17

1. INTRODUCTION

The proposed extraction of sand from the Burke River is approximately 500m SE of Boulia township. The proposed area of extraction is approximately 600m long by 50m wide. The proposed quantity of annual extraction is between 1000-10000 tones in line with ERA 16 1(a) threshold. The extraction from the river bed is adjacent to the state reserve land and road reserve and privately owned land. The Road Reserve land (Segment Parcel 63/28) to the SE side of the river is proposed to be utilised to gain access to the river from the River Road and also for temporary stockpiling of sand. The extraction of sand from the river (Segment Parcel 63/120) will provide the community with a readily available source of local sand.

2. SUMMARY

2.1. DEVELOPMENT APPLICATION DETAILS

Proposed development:	Extraction of sand from the Burke River approximately 500m SE of Boulia township. The proposed area of extraction is approximately 600m long by 50m wide. The proposed quantity of annual extraction is between 1000-10000tones in line with ERA 16 1(a) threshold. The extraction from the river bed is adjacent to the state reserve land and road reserve and privately owned land. The Road Reserve land to the SE side of the river is proposed to be utilised to gain access to the river from the River Road and also for temporary stockpiling of sand. The extraction of sand from the river will provide the community with a readily available source of local sand.
Type of approval sought:	Development Permit for Material Change of Use for Extraction
Site address:	River Road Boulia, Queensland 4829
Real property description:	Segment Parcels 63/28 Road Reserve and 63/120 watercourse
Site area:	600m x 50m
Assessment manager:	Boulia Shire Council
Owner details:	State Land
Applicant details:	P.E. and G.C. Harris Road Contractors

2.2. PLANNING INSTRUMENT DETAILS

State planning policy:	State Planning Policy July 2017: Economic Growth - Mining and extractive resources
Regional plan: Designation:	Central West Regional Plan (version commenced September 2009)
Planning scheme:	Boulia Shire Planning Scheme 2006 Version 2
Applicable preliminary approval:	Concurrence Agency Response (SPL-0416-029331) was issued however lapsed on the 19 July 2017
Strategic framework:	Natural resource management (NRM)
Zone:	Rural
Local plan:	Boulia Shire Planning Scheme 2006 Version 2
Level of assessment:	Impact
Applicable overlays:	Stock route
Applicable codes:	<ul style="list-style-type: none"> • State code 22: Environmentally relevant activities • State code 15: Removal of quarry material from a watercourse or lake • State code 16: Native vegetation clearing

2.3. REFERRAL AGENCIES

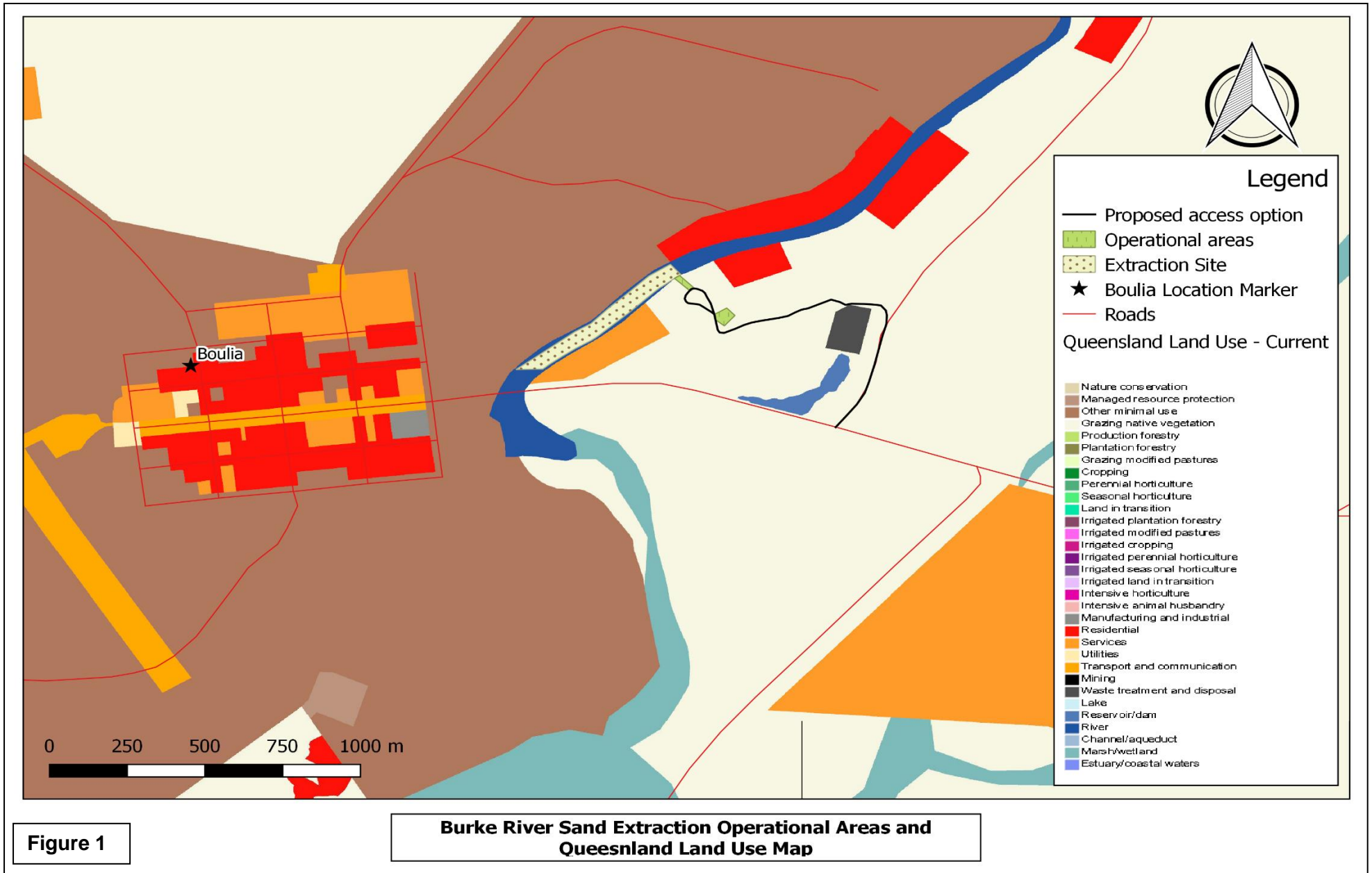
Referral requirement	Referral agency and role
Schedule 10, part 3, div 4, table 3, Clearing native vegetation	Chief Executive, Department of Infrastructure, Local Government and Planning - Advice
Schedule 10, part 5, div 4, table 2, Environmental Relevant Activity	Chief Executive, Department of Infrastructure, Local Government and Planning – Advice
Schedule 10, part 19, div 2, sub 3, table 1, Removing quarry material	Chief Executive, Department of Infrastructure, Local Government and Planning - Advice

3. SITE DETAILS

3.1. SITE DESCRIPTION

Table 1: Site description

Site characteristic	Description
Existing land use	The area in questions is classified as rural. It has residential dwellings on Lot 1 Plan SP118535 and Lot 5 Plan SP111278
Existing structures	Buildings on Lot 1 Plan SP118535 and Lot 5 Plan SP111278
Frontage and access	Access will be via gazetted road (River Road) approximately 1.5km to the east of Boulia off the Winton Road. The site fronts onto two privately owned lot and state land
Topography and views	Flat terrain approximately 155m elevation with Boulia township approximately 1km to the west.
Existing vegetation	Category B remnant vegetation. Least concern regional ecosystem RE 4.3.20 and 4.3.3.
Existing waterways	The sand extraction process will occur in the Burke River.



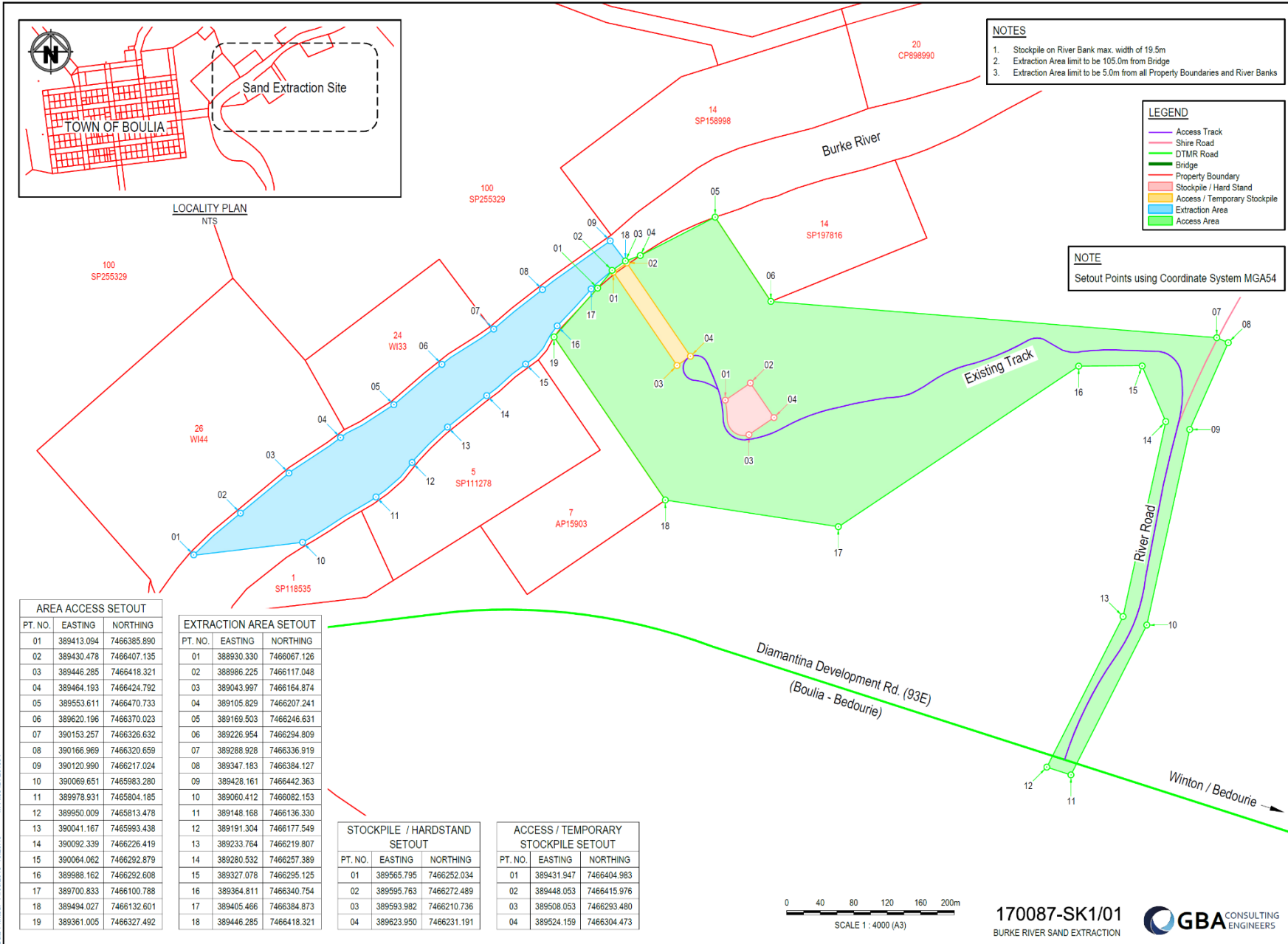


Figure 2

3.2. SURROUNDING LAND USES

Table 2: Surrounding land uses

Surrounding land uses	
North	State land and reserve – rural zoning, Rural residential zoning
South	Lands lease, state land, reserve and Stock route – rural zoning, Open space and recreation
East	Freehold and Stock route – rural zoning, Open space and recreation
West	Residential and reserve – partly rural zoning, Open space and recreation, Urban and Industrial

4. PROPOSED DEVELOPMENT DETAILS

Extraction of sand from the Burke River approximately 500m SE of Boulia township. The proposed area of extraction is approximately 600m long by 50m wide. The proposed quantity of annual extraction is between 1000-10000tones in line with ERA 16 1(a) threshold. The extraction from the river bed is adjacent to the state reserve land and road reserve and privately owned land. The Road Reserve land to the SE side of the river is proposed to be utilised to gain access to the river from the River Road and also for temporary stockpiling of sand. The extraction of sand from the river will provide the community with a readily available source of local sand.

Table 3: Summary of development aspects

Material change of use (If your development application does not include a material change of use, please delete this section)	
Building height	N/A
Gross floor area (GFA)	N/A
Non GFA site use area	24 Hectares
Site coverage	24 Hectares with .4 hectare of stockpile/hardstand areas
Car parking	Vehicles and machinery will be parked in the stockpile/hardstand areas for loading and waiting periods.
Site access	Access will be via gazetted road (River Road) approximately 1.5km to the east of Boulia off the Winton Road
Proposed lots	Adjacent to: Lot 100 Plan SP255329, Lot 24 Plan WI33, Lot 26 Plan WI44, Lot 1 Plan SP118535, Lot 5 Plan SP222278, Lot 7 Plan AP15903.
Proposed servicing arrangements	Infrastructure arrangements include machinery and vehicles for sand extraction
Building height	N/A
Gross floor area (GFA)	N/A

5. PLANNING ASSESSMENT

5.1. State interests

The plan aims to meet state planning policy identification as outlined by the Boulia Shire planning scheme.

Strategic Direction (Part 3)

In regards to the strategic direction section of the Boulia Shire planning scheme the proposed sand extraction operation can be supported through the Environmental and Economic policies.

Environment

The Boulia Shire planning scheme outlines strategies to protect and minimise adverse impacts. The proposed sand extraction operation can show alignment with this through the implementation environmental protection practices including:

- Vegetation assessments – Category B remnant vegetation. Least Concern regional ecosystem
- Minimising clearing to align with SDAP code 16, including Clearing activities adjacent to watercourses.
- Project planning to minimise the risk of impacts to aquatic ecosystems

Cultural Heritage surveys and desk top assessments have been undertaken to minimise potential harm to landscape values and historic significance.

Economic

The proposed sand extraction operation under the guidelines in the Boulia Shire planning scheme can support economic development, reinforcing Boulia's planning scheme through:

- Providing increased activity in the region through the commencement of a sustainable extractive industry
- The proposed operation supports Boulia as a key industrial and commercial centre within the shire, supporting the Boulia Shire Council's aim of consolidating and protecting key industrial activities such as building/ infrastructure.

Community and Services

The proposed sand extraction operation would also be able to assist the community and services through the provision of infrastructure, health and safety through better infrastructure such as road maintenance, supporting local industry. Given the assessments undertaken in the development application process it would also meet environmental standards as mentioned in this section of the Boulia Planning Scheme.

Rural Zone (Part 4)

“Material change of use”	
Performance Criteria	Acceptable Solution
Location	<p>PC1 Non-“Rural activities” - Locational Criteria</p> <p>Non-“Rural activities” are located in the Rural “Zone” only where those activities:</p> <p>(a) do not impact adversely on the amenity of the Rural “Zone”;</p> <p>(b) demonstrate a nexus with rural activities or natural or cultural resources;</p> <p>(c) do not prejudice the consolidation of like non-“Rural activities” in other more appropriate “Zones”;</p> <p>(d) do not prejudice the productive capacity of existing or future rural land; and</p> <p>(e) protect the landscape values and scenic qualities of the rural “Zone”.</p>
Amenity	<p>PC2 Non-“Rural activities” - Scale</p> <p>Non-“Rural activities” are of an appropriate scale to protect the amenity of the Rural “Zone” and do not prejudice the operation and viability of other “Uses” or activities in the Rural “Zone” or other “Zones”.</p> <ul style="list-style-type: none"> • Site reduced to minimise environmental impact. The activity will not impact on land uses such as stock routes through minimal land impact such as minimising vegetation clearing and the operational area being of a small scale in comparison to the total size of the stock route.
Amenity	<p>PC3 Non-“Rural activities” - Operating Hours</p> <p>Non-“Rural activities” are operated so as to ensure that the activities and the operation of equipment occur at appropriate times to protect the amenity of the Rural “Zone”.</p> <ul style="list-style-type: none"> • Operational hours as outlined in AS3, AS4.1 and AS4.2 have been considered and operation times will be between 7am to 6pm Monday to Friday, 7am to 12pm Saturday and non-operational on Sundays and public holidays, during operational periods. Consultation with sensitive receptors will occur to minimise potential conflict.
Amenity	<p>PC4 Non-“Rural activities” - Delivery of Goods</p> <p>The loading and unloading of goods in connection with non-“Rural activities” occurs at appropriate times to protect the amenity of the Rural “Zone”.</p>

	<p>PC13 Separation of Incompatible Land Uses</p> <p>Separation distances are provided to ensure:</p> <ul style="list-style-type: none"> (a) the future viability of surrounding “Uses”; (b) infrastructure items are protected from incompatible “Development”; (c) an appropriate standard of amenity and public safety; and (d) conflict arising from incompatible “Uses” is minimised. 	<ul style="list-style-type: none"> • For sensitive land use the planning scheme has been consulted (particularly AS3, AS4.1 and AS4.2) in regard to operation times. Operational hours as outlined in AS3, AS4.1 and AS4.2 have been considered and operation times will be between 7am to 6pm Monday to Friday, 7am to 12pm Saturday and non-operational on Sundays and public holidays, during operational periods. Sensitive receptors on surrounding tenures will be consulted prior and during operation to provide community consultation. • The operational areas and access track will maintain the 150m buffer from residential housing and use water trucks to maintain dust levels. • Public consultation will be conducted in accordance with BSC Planning Scheme • An appropriate standard level of amenity and public safety has been designed into the operational plan such: <ul style="list-style-type: none"> ○ Workplace Health and Safety Act 2011 ○ Environmental Protection (Water) Policy 2009 ○ Spill response procedure ○ Air emissions procedure
Infrastructure	<p>PC18 Vehicle Access</p> <p>Vehicle access is provided to ensure the safe and functional operation for motorists and pedestrians.</p> <p>PC19 Vehicle Parking and Service Vehicle Provision</p> <p>Vehicle parking and service vehicle provision is adequate for the “Use” and ensures safe and functional operation for motorists and pedestrians.</p> <p>PC20 Roads</p> <p>Adequate all-weather road access is provided between the “Premises” and the existing road network.</p>	<ul style="list-style-type: none"> • Operational areas are provided for parking and designated areas of use. • Access to the operational areas is via state controlled road (Goodwood Rd). Access off the State controlled road is via local gov road (Three Mile Rd). The access off of council roads is using an existing track. • As the extraction site cannot be used in wet conditions the road will not have to be all-weather. Routine maintenance of the access track will be undertaken by the operator.
Environmental	<p>PC24 “Watercourses” and “Lakes”</p> <p>“Development” ensures the maintenance of riparian areas and water quality including protection from off-site transfer of sediment.</p>	<ul style="list-style-type: none"> • Refer to section 6 of the Operation Plan

<p>PC25 Vegetation Retention</p> <p><i>“Development”</i> retains vegetation for the:</p> <ul style="list-style-type: none"> (a) protection of scenic quality; (b) protection of general habitat; (c) protection of soil quality; and (d) establishment of open space corridors and networks. 	<ul style="list-style-type: none"> • Refer to section 6 of the Operation Plan
<p>PC26 Cultural Heritage</p> <p><i>“Development”</i> ensures the protection and maintenance of places and items of cultural heritage.</p>	<ul style="list-style-type: none"> • Cultural heritage assessment has been under taken in consultation with the Pitta Pitta people to ensure historical and indigenous heritage values are protected.
<p>PC27 Air Emissions</p> <p>Air emissions from <i>“Premises”</i> do not cause environmental harm or nuisance to adjoining properties or <i>“Sensitive land uses”</i>.</p>	<ul style="list-style-type: none"> • Refer to section 6 of the Operation Plan
<p>PC28 Noise Emissions</p> <p>Noise emissions from <i>“Premises”</i> do not cause environmental harm or nuisance to adjoining properties or <i>“Sensitive land uses”</i>.</p>	<ul style="list-style-type: none"> • Refer to section 6 of the Operation Plan
<p>PC29 Water Quality</p> <p>The standard of effluent and / or stormwater runoff from <i>“Premises”</i> ensures the quality of surface and underground water is suitable for:</p> <ul style="list-style-type: none"> (a) the biological integrity of aquatic ecosystems; (b) recreational use; (c) supply as drinking water after minimal treatment; (d) agricultural use; or (e) industrial use. 	<ul style="list-style-type: none"> • Refer to section 6 of the Operation Plan

	<p>PC30 Excavation or Filling</p> <p>Excavating or filling of land:</p> <p>(a) ensures safety and amenity for the users of the "Premises" and land in close proximity;</p> <p>(b) minimises soil erosion; and</p> <p>(c) limits detrimental impacts on water quality.</p>	<ul style="list-style-type: none"> In accordance with the site using the Operation Plan, management of potential risks will be minimised through environmental management policies, extraction procedures such as open cut depth not exceeding 2m and a batter no steeper than 1:10. Operational aspects such as avoiding steel track machines and using specific stock pile areas will be used to protect/minimise impact to riparian areas and soil erosion. The water management policy in the operational plan (section 6) will also be used as a risk management tool.
	<p>PC31 Construction Activities</p> <p>Erosion control measures and silt collection measures ensure that environmental values are protected during construction activities.</p>	<ul style="list-style-type: none"> The operation plan references the erosion and sedimentation procedure, as well as water management and rehabilitation sections also detailing the operation design for protecting environmental values.
Constraint	<p>PC33 Good Quality Agricultural Land Areas</p> <p>Good Quality Agricultural Land areas as identified on the Land Characteristics Map – Good Quality Agricultural Land are conserved and managed for the longer term and protected from development that may lead to its alienation or diminished productivity.</p>	<ul style="list-style-type: none"> The land use is classified as native grazing vegetation and the area is classified as category GQAL. The designated operational areas total approximately .5Ha and will not be used at all times, thus vegetation will be able to regrow for use during non-operational times. The access uses existing tracks meaning minimal impact will occur in the long term.
	<p>PC34 Flooding</p> <p>"Premises" are designed and located so as:</p> <p>(a) not to be adversely impacted upon by flooding;</p> <p>(b) to protect life and property; and</p> <p>(c) not to have an undesirable impact on the extent or magnitude of flooding.</p>	<ul style="list-style-type: none"> The extraction process should not have any undesirable impacts on the extent or magnitude of any flood as operations cannot occur during period of the river holding water.
	<p>PC35 Protected Areas</p> <p>"Development" is undertaken to ensure areas of significant biodiversity and habitat value and high scenic quality are protected.</p>	<ul style="list-style-type: none"> Bio-diversity and habitat value have been consider in the development of the Operation Plan and DA application. Evidence of this is appendix C in the Operational Plan.

	<p>PC38 Transport Infrastructure</p> <p>Separation distances are provided to ensure:</p> <p>(a) transport infrastructure items are protected from incompatible "Development"; and</p> <p>(b) an appropriate standard of amenity and public safety is provided to adjoining "Uses".</p>	<ul style="list-style-type: none"> Operational areas are provided for parking and designated areas of use. The access to the operational areas is off the state road. The access off of council roads is using an existing track and as the extraction site cannot be used in wet conditions the road will not have to be all-weather. It is estimated traffic levels would be between 20 (minimum extraction, 1000t) to 200 (maximum extraction, 10000t) trucks each carrying a load of approximately 50 tonne. Over approximately 6 months (estimated extraction window/yr) this would average one every two weeks to one a day depending upon extraction demand within the allocated limit 1,000 tonne to 10,000 tonne, as set by ERA 16 1(a). Truck turning signs are suggested to be placed on the main road to indicate trucks turning in and out of River road Prescribed buffer distance of 100m for the extraction activity from state controlled road infrastructure has been maintained.
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">"Use"</p>	<p>PC41 "Extractive industry"</p> <p>"Premises" used for extractive industries:</p> <p>(a) do not impact adversely on the amenity of other "Uses" in the Rural "Zone" or other "Zones";</p> <p>(b) are designed and operated to ensure the protection and maintenance of environmental values;</p> <p>(c) are rehabilitated to provide for future re-use of the land and to prevent ongoing risk of adverse impacts on the local environment and amenity; and</p> <p>(d) are designed and operated so that the safety of persons and property is not compromised.</p>	<ul style="list-style-type: none"> The site Operation Plan has identified strategies to minimise impacts on amenities and of other uses in the rural zone, protect environmental values and provide future sustainability. This was done in conjunction with a risk assessment of the Burke River sand extraction activity so the site could operate in a safe manner for both people and property. This was achieved through the use of buffer zones and implementation of relevant government policies and acts.

5.2. PRE-LODGE MENT

A pre-lodgement correspondence was undertaken with Bouli a Shire Council on 5/7/2017 with Odette Langham to discuss planning requirements and key issues applicable to this development application.

A copy of the pre-lodgement advice is contained in appendix 1.

Table 4: Summary of key issues

Issue	Council response	Applicant response
Tenure 100/SP255329 Access – The planned access would require and ILUA and the Pre-lodgement advice suggesting the use of the southern side of the river for access after negotiation with TMR.	TBA	Accepted
QMAN and pre-application is different in length 3000m to 600m. It is suggested a new QMAN may be needed to be consistent.	TBA	Application of new allocation
Any extraction by using machinery having an annual throughput of product of 10,000t will result in assessment of impacts on state transport infrastructure (Schedule 20 Planning Regulation item 17). If throughput is 10,000t or more the department would be a concurrence agency in this instance. An assessment has not been completed based on information submitted.	TBA	The expected throughput will be less than 10,000t and as advised in the pre-lodgement advice by DILGP, this will not trigger a referral for assessment.

5.3. KEY ISSUES

5.3.1. TENURE ACCESS WITH POTENTIAL TO IMPINGE ON CULTURAL HERITAGE

Tenure 100/SP255329 Access – The planned access would require an ILUA and the Pre-lodgement advice suggesting the use of the southern side of the river for access after negotiation with TMR. The development proposal responds to this issue through agreements with the land owners and consent holders for access through the southern side as indicated in figures 2 and 3 above.

5.3.2. VEGETATION REMOVAL ENVIRONMENT

The pre-lodgement advice cited native vegetation removal requiring assessment and approval. The application intends to follow the guidelines in the advice section in regard to preventative measures such as not exceeding 20m width adjacent to watercourses, protecting against erosion and aquatic and terrestrial habitat destruction.

6. STATE ASSESSMENT AND OTHER MATTERS

6.1. PRE-LODGEEMENT MEETING

A pre-lodgement meeting was undertaken with the following referral agency/s.

Entity meeting held with	Contact officer details	Date of meeting
DILGP	Odette Langham Principal Planning Officer and Patrick Ruettjes Manager (Planning)	Correspondence sent 5/7/2017

A copy of the pre-lodgement correspondence is contained in appendix 1.

A summary of the key referral requirements is provided in table 7.

Table 7: Summary of key referral requirements

Referral requirement	Referral agency	Referral agency response	Applicant response
Schedule 10, part 3, div 4, table 3, Clearing native vegetation	DILGP	No excessive clearing and minimise if it is required. Limit or cause no damage to banks to minimise additional erosion. Limit or cause no damage to habitat. Practise clearing in stages if possible.	Accepted
Schedule 10, part 5, div 4, table 2, Environmental Relevant Activity	<i>DILGP</i>	Assess and detail effects of sand extraction on onsite and offsite environmental values which could be affected	Detail will be provided in ERA application under 16 (1) (a) and 16 (3) (a)
Schedule 10, part 19, div 2, sub 3, table 1, Removing quarry material	<i>DILGP</i>	Assessment under State code 15: Removal of quarry material from a watercourse or lake	Accepted

6.2. EARLY REFERRAL RESPONSES

Table 8: Early referral responses received

Referral requirement	Referral agency	Date of early referral response
Schedule 10, part 3, div 4, table 3, Clearing native vegetation	DILGP	3/8/2017
Schedule 10, part 5, div 4, table 2, Environmental Relevant Activity	DILGP	3/8/2017
Schedule 10, part 19, div 2, sub 3, table 1, Removing quarry material	DILGP	3/8/2017

7. SUMMARY OF SUPPORTING INFORMATION

Table 9: Supporting documentation

Drawing/ Report title	Prepared by	Date	Reference no.	Version
Aspect of development: Pre-lodgement				
1707-105 SPL Pre-lodgement advice	Patrick Ruettjes	03/09/2017	1707-105 SPL	1
Aspect of development: MCU ERA 16 1(a)/ Quarry Material Allocation				
Riverine Material Extraction Environmental Assessment and Operations Plan	W. green	1/11/2017	268291	1
Aspect of development: Quarry Material Allocation				
Permit QMA 100000070	J McKee	30/10/2017	100000070	-
Aspect of development: All				
Drawing – Burke River Sand Extraction	Z. Richardson	30/08/2017	170087-SK1/01	1
Aspect of development: Vegetation Management				
22A Decision Approval Letter Final	L. Gale	14/09/2017	2017/004494	-
Aspect of development: Landholder Consent				
Owners consent letter SLO signed	D. Holder	08/05/2018	2018/002746	1

8. CONCLUSION

The development proposal key findings are the requirements for the design to use the land south of the river or negotiate an ILUA with the Pitta Pitta people. The consideration of native vegetation clearance will be designed to accommodate best industry practices as outlined in the Pre-Lodgement Advice. The ERA also as a key finding will adhere to the guidelines under ERA 16 (1) (a) . The current standing of approval sort for the best outcome highlights the applicants' desire for best industry practice in theory and application. All current variations to the Burke River sand extraction should be taken as evidence of that planning provisions are being adhered to and thoroughly considered.

APPENDIX 1 – PRE-LODGEMENT ADVICE



Department of Infrastructure,
Local Government and Planning

Our reference: 1707-105 SPL

3 August 2017

PE & GC Harris
73 Elm Street
Barcaldine QLD 4725
wgreen@gbassoc.com.au

Attention: William Green

Dear Mr Green

Pre-lodgement advice

Thank you for your correspondence received on 5 July 2017 in which you sought pre-lodgement advice from the Department of Infrastructure, Local Government and Planning regarding the proposed development described below.

Reference information

Departmental role:	Referral agency
Departmental jurisdiction:	Planning Regulation 2017 (Planning Regulation) Schedule 10, part 3, div 4, table 3, Clearing native vegetation Schedule 10, part 5, div 4, table 2, Environmental Relevant Activity Schedule 10, part 19, div 2, sub 3, table 1, Removing quarry material

Location details

Street address:	Selwyn Road, Boulia
Real property description:	Lot 100 on Plan SP255329
Local government area:	Boulia Shire Council
Relevant site history:	Department of Infrastructure, Local Government and Planning, Concurrence agency response before application is made—with conditions (Our ref: SPL-0416-029331) dated 19 July 2016.

Details of proposal

Development type:	Material change of use
	Development Permit for Material Change of Use (Extractive Industry)

- Development description:
- The proposal is to include a hardstand area for temporary material handling/stockpiling adjacent to a proposed extraction site. The proposed area requires a small disturbance area adjacent to the river for temporary stockpiling and loading of material. The activity will be running adjacent to State reserve land as well as freehold land.
 - The overarching activity is the extraction of sand from the Burke River ERA 16 (1)(a) 1000-10000t/yr. The proposed area of extraction is approximately 600m long by 50m wide.
 - The development is defined as an “Extractive Industry” in the Planning Scheme for Boulia Shire 2006 and is assessable development.

Supporting information

Drawing/report title	Prepared by	Date	Reference no.	Version/issue
Burke River Sand Extraction	William Green	Received 5 July 2017	-	-
Mapinfo files of extraction area and access	William Green	Received 5 July 2017	-	-
Photos of extraction site	William Green	Received 5 July 2017	-	-

The department has carried out a review of the information provided and the impacts of the proposal. The following advice outlines the matters of interest to the department and matters that should be addressed if you lodge your development application with the assessment manager, Boulia Shire Council, for the following:

- Material change of use for Environmental Relevant Activity (ERA) 16(1)(a).
- Material change of use for removing quarry material.
- Material change of use for clearing native vegetation.

1. Departmental jurisdiction and fees

Planning Regulation 2017 (Planning Regulation)

The department will be a concurrence agency for the following:

- Material change of use for Environmental Relevant Activity
Fee \$3,130.00 (Schedule 10, part 5, div 3, table 2, item 8).
- Material change of use for Removing quarry material
Fee \$3,130.00 (Schedule 10, part 19, div 2, sub 3, table 1, item 8 (b))
- Material change of use for Clearing native vegetation
Fee \$3,130.00 (Schedule 10, part 3, div 4, table 3, item 8)

2. State Development Assessment Provisions (SDAP)

SDAP version 2.0 applies.

- State code 22: Environmentally relevant activities
- State code 15: Removal of quarry material from a watercourse or lake
- State code 16: Native vegetation clearing

The current version of the State Development Assessment Provisions can be found at:
www.dilgp.qld.gov.au/planning/development-assessment/state-development-assessment-provisions.html.

To address the SDAP the applicant should demonstrate how acceptable outcomes will be achieved. If the development cannot meet an acceptable outcome, the applicant should provide evidence on how the proposal meets the performance outcome. All relevant performance outcomes need to be addressed.

Please note SDAP version 2.1 will commence on 11 August 2017.

3. Material change of use for Environmental Relevant Activity

- ERA 16(1)(a) – dredging, in a year, 1,000 to 10,000t of material is the applicable trigger.
- ERA 16(3)(a) Screening, in a year, 5,000 t to 100,000t of material may also be triggered.
- An environmental authority will need to be obtained in order to undertake the proposed activity.

Information required:

- Assessment under State code 22: Environmentally relevant activities
- Assessment of the following (under section 125 of the *Environmental Protection Act 1994*):
 - o Description of the environmental values (both onsite and offsite) likely to be affected by the proposed activity;
 - o Details of any emissions or releases likely to be generated by the proposed activity;
 - o Description of the risk and likely magnitude of impacts on the environmental values;
 - o Details of the management practices proposed to be implemented to prevent or minimise adverse impacts;
 - o Details of how the land the subject of the application will be rehabilitated after the relevant activity;
 - o Description of the proposed measures for minimising and managing waste generated by the relevant activity; and
 - o Details of any site management plan that relates to the land that is the subject of the application.
- Environmental values that will need to be considered include:
 - o Schedule 17 underground water areas of Water Regulation 2016;
 - o Matter of State Environmental Significance:
 - Regulated Vegetation (intersecting a watercourse); and
 - Strategic Environmental Areas (designed precincts);
 - o Category B (Remnant Vegetation) that is a least concern regional ecosystem;
 - o Flood plain of Burke River; and
 - o Dust and Noise sensitive areas in the proximity of the proposed dredging area in Services areas and Residential areas.
- Additional information would be beneficial to include in any application:
 - o Site plans of the exact location of the activities;
 - o Details of the activity;
 - o Vegetation management measures; and
 - o Stormwater management measures, including any proposed erosion and sediment control measures.

Technical guidelines

Technical guidelines have been developed to assist the applicant where impacts related to air, land, noise, water or waste have been identified. These are available at:

<https://www.business.qld.gov.au/business/running/environment/licences-permits/applying-environmental-authority/technical-information-requirements>

4. **Material change of use for Removing quarry material**

Information required:

Assessment under State code 15: Removal of quarry material from a watercourse or lake.

5. **Material change of use for Clearing native vegetation**

Information required:

- Assessment under State code 16: Native vegetation clearing.
- Including Table 16.2.2: Performance Outcomes PO1 - PO4 and Table 16.2.3: PO7, PO11, PO16, PO22 - PO24, PO27 - PO28.
- Based on the information provided the performance outcomes listed below will require extra consideration:

PO11 – Watercourses and drainage features

Clearing is proposed within 100 metres of the watercourse (Burke River). In addressing this performance outcome the application should either:

- o Address Acceptable Outcome AO11.2 by demonstrating that clearing within the Burke River or within 100 metres of the defining bank of the Burke River:
 1. Does not exceed 20 metres in width; and
 2. Does not occur within five metres of the defining bank, unless clearing is required into or across the watercourse or drainage feature.

OR

- o Address AO11.3 which states where clearing cannot be reasonably avoided, and clearing has been reasonably minimised, an offset is provided for any acceptable significant residual impact from clearing of vegetation associated with any watercourse or drainage feature (a matter of state environmental significance).

OR

- o Provide evidence to demonstrate that the proposed development can meet PO11 by demonstrating that clearing maintains the current extent of vegetation associated with any watercourse or drainage feature to protect:
 1. Bank stability by protecting against bank erosion
 2. Water quality by filtering sediments, nutrients and other pollutants
 3. Aquatic habitat; and
 4. Terrestrial habitat.

PO28 – Clearing is staged (extractive industry)

Demonstrate clearing:

- o Is staged in line with operational needs that restrict clearing to the current operational area,
- o Only occurs in the area from which material will be extracted, and any reasonably associated infrastructure, within the term of the development approval; and
- o Does not occur without required permits.

6. **State transport infrastructure**

Any extraction by using machinery having an annual throughput of product of 10,000t will result in assessment on impacts on State transport infrastructure (Schedule 20 Planning Regulation item 17). If throughput is 10,000t or more the department would be a concurrence agency in this instance. An assessment has not been completed based on information submitted.

7. **Waterway barrier works**

The proposal will not constitute waterway barrier works if it does not raise the bed level of the waterway. The location of works is within a braided branch of a waterway mapped as purple (major) on the Queensland waterways for waterway barrier works data layer. The act of sand extraction from within the bed of the waterway at this location will not constitute waterway barrier works if it does not raise the bed level of the waterway.

If temporary or permanent waterway barrier works (e.g. temporary bunds or raised access tracks) are required within the waterway to facilitate the proposed works, they will require authorisation under the Planning Regulation. The department would be the assessment manager under Schedule 10, part 6, division 4, Waterway barrier works.

Works involving constructing or raising waterway barrier works must be undertaken in accordance with the relevant accepted development requirements or under a development approval.

Please refer to the following factsheets for more information on waterway barrier works:

- [What is a waterway?](#)
- [What is a waterway barrier work?](#)
- [What is not a waterway barrier work?](#)

8. Other advice

Concurrence agency response before application is made—with conditions (SPL-0416-029331)

The department issued “Concurrence agency response before application is made—with conditions” (CAR), related to section 271 and given under section 285 of the repealed *Sustainable Planning Act 2009*, on 19 July 2016. Under the *Planning Act 2016* (Planning Act) the CAR will remain valid provided is the same or is not substantially different from the proposed application and is made within the time. It is noted the CAR lapsing date was 19 July 2017.

Tenure under the *Land Act 1994*

Tenure under the *Land Act 1994* will be required to use part of Lot 100 on SP255329, being a Reserve for Township purposes with Boulia Shire Council as trustee. A determination of native title was registered on 17 January 2014. Native title has been determined to exist over Lot 100 on SP255329. Any application for tenure and subsequent offer of tenure would require native title to be addressed by way of negotiation and registration of an Indigenous Land Use Agreement (ILUA).

It is suggested to consider if access to the watercourse could be obtained from the southern side of the proposed extraction area via the Diamantina Development Road.

As the Diamantina Development Road is a state controlled road, the applicant should consult with the Department of Transport and Main Roads with regard to obtaining an authority under the *Transport Infrastructure Act 1994* to store and stockpile material within the state controlled road corridor. Native title can be addressed without the need to negotiate an ILUA for an authority over the state controlled road.

Further advice from the Department of Natural Resources and Mines should be sought if the above change is proposed via email Townsville.SLAMS@dnrm.qld.gov.au.

Owner’s consent

If tenure is granted on Lot 100 on SP255329, owner’s consent from the Department of Natural Resources and Mines is required to lodge a “properly made” development application under the *Planning Act 2016* for a material change of use.

The forms to apply for owner’s consent can be found on the Department of Natural Resources and Mines website (No fee is applicable):

- Application form Contact and Land Details Part A:
www.dnrm.qld.gov.au/data/assets/pdf_file/0018/101781/state-land-form-la00.pdf

- Application for owner's consent to development applications Part B:
www.dnrm.qld.gov.au/_data/assets/pdf_file/0008/101789/state-land-form-la08.pdf

The application for owner's consent should also include:

- Development application details—DA Form 1 with all necessary other forms or attachments including sketches/plans of existing and proposed improvements proposed to be lodged with the assessment manager.
- If acting on a person's behalf, a letter from the person advising that you are acting on their behalf.
- A letter from the leaseholder or trustee, if the development proposal relates to a secondary interest in the land (e.g. sublease, trustee lease).
- Any additional attachments, as requested.

An application for owner's consent can be lodged by email to SLAMlodgement@dnrm.qld.gov.au or by post to:

Department of Natural Resources and Mines
PO Box 5318
Townsville QLD 4810

The progress of a lodged application can be tracked at <https://dashboard.dnrm.qld.gov.au/#/services>.

Further information can be found at www.qld.gov.au/environment/land/state/owner-consent/.

Mining Interests

It is advised that the below exploration tenures exist over the proposed development area on Lot 100 on SP255329. It is recommended that the applicant consult with the tenure holders to avoid any conflicts between activities planned at the site.

Tenure Details	Status	Lodge Date	Expiry Date	Authorised Holder
Authority to Prospect ATP 913	Granted	27/08/2007	31/05/2018	Hedges Gas Pty Ltd
Exploration Permit for Geothermal EPG 2002	Application	2/07/2015	N/A	Local Government Infrastructure Services Pty Ltd

Contact details of the tenure holders can be obtained from:

Petroleum Assessment Hub
PO Box 15216
City East QLD 4002
Phone: 07 3199 8118
Email: PetroleumHub@dnrm.qld.gov.au

Water Act 2000

There are no requirements under the *Water Act 2000* regarding the proposed hardstand area on Lot 100 on SP255329 as it is outside the bed and banks of the Burke River. It is noted, however, that the length of the extraction area specified in the pre-application request (600 metres) is significantly smaller than the area approved under quarry material allocation notice (QMAN) 300442 (3000 metres). The proposed operation may be inconsistent with the existing QMAN and a new QMAN may be required to ensure consistency with the proposed operation.

A development application will require a reassessment of the proposed development against State Code 15: removal of quarry material from a watercourse or lake. It is recommended that the applicant contact the Department of Natural Resources and Mines on (07) 4447 9139 or RiversNorth@dnrm.qld.gov.au for further advice if required.

The provision of this technical agency pre-application advice is conditional upon the extent of the development shown in "*Burke River Sand Extraction: proposed areas of operation, proposed extractive activity, Google Earth image*" supplied with pre-application request. Should an amended development be proposed, this advice may be invalid.

Native vegetation

The subject lot contains the following features/vegetation types:

- Category B area containing least concern regional ecosystems; and
- A watercourse/drainage feature as shown on the vegetation management watercourse and drainage feature map.

The mapped regional ecosystems in the proposed development area are:

- 4.3.1;
- 4.3.10; and
- 4.3.3.

A detailed vegetation management report can be requested online at:

www.qld.gov.au/environment/land/vegetation/map-request/. The report includes relevant property information and a series of maps and supporting information outlining the requirements for clearing vegetation on this land.

This pre-lodgement advice does not constitute an approval or an endorsement that the department supports the development proposal. Additional information may be required to allow the department to properly assess the development proposal when a formal application has been lodged.

Advice remains valid for period of 9 months from time of issue.

For further information please contact Odette Langham, Principal Planning Officer on (07) 4898 6816 or via email MIWSARA@dlgp.qld.gov.au who will be pleased to assist.

Yours sincerely



Patrick Ruettjes
Manager (Planning)
Mackay Isaac Whitsunday Regional Office

FILE NOTE

RE: REVIEW OF PRE-LODGEMENT ADVICE PROVIDED BY DEPARTMENT OF INFRASTRUCTURE LOCAL GOVERNMENT AND PLANNING (DILGP) FOR SAND EXTRACTION WITHIN BOURKE RIVER

1.00 BACKGROUND

Reference is made to the email dated 14 August 2017 from George Bourne and Associates Consulting Engineers attaching a copy of the pre-lodgement advice provided by DILGP and the request for Council to provide:-

- i) comments on the content of the pre-lodgement advice; and
- ii) Council planning approval process.

We note that this advice is provided in the context of the following:-

- a) the pre-lodgement enquiry dated 5 July 2017; and
- b) the DILGP Concurrence Agency Response before the application is made dated 19 July 2016

2.00 GENERAL COMMENT ON PRE-LODGEMENT ADVICE

The following observations are made in relation to the pre-lodgement advice:-

- a) the Bouliia Shire Council is confirmed as the Assessment Manager for the application and that DILGP will be the Concurrence Agency for the Environmentally Relevant Activity, removal of quarry material and clearing of natural vegetation and other matters identified during the preparation of the application;
- b) the information requirements for the Concurrence Agency matters appear comprehensive however no further comment is made in this regard;
- c) we note the comments and observations on:-
 - i) the need to obtain an environmental authority;
 - ii) possible referral in relation to State Transport Infrastructure;
 - iii) waterway barrier works;
 - iv) the implication of using Lot 100 on SP295329 and the need to negotiate and register an Indigenous Land Use Agreement (ILUA) and the option available to use the state controlled road;
 - v) land owner's consent;
 - vi) mining interests;
 - vii) provisions in relation to the Water Act 2000 and in particular, reference to the Quarry Material Allocation Notice;
 - viii) Native Vegetation considerations;
- d) we concur with the general advice provided by DILGP that the specific matters for items i) to viii) above require further investigations with the relevant agency prior to the completion and lodgement of the application.
- e) we would recommend that you seek further advice from the DILGP on s22A of the Vegetation Management Act in relation to Question 23.3 of the DA Form 1.

- f) given that the location of the proposed activity is within the Bourke River and adjoining road reserve and that the proposal requires Public Notification, specific advice should be sought from DILGP to determine the location of Public Notification Signs and the extent of “adjoining land owners” in order to comply with Schedule 3 Public Notification Requirements contained within the Development Assessment Rules.
- g) given the location of the proposed activity is within the Burke River and the adjoining road reserve to the south (State Controlled Road) we would recommend that advice be sought from the Department of Natural Resources and Mines on a suitable property description for the subject land.

3.00 COUNCIL PLANNING APPROVAL PROCESS

The land proposed for the sand extraction and associated access and stockpile areas are within the Rural Zone as part of the Planning Scheme for Bouliia Shire (2006).

The proposed use is defined as Extractive Industry.

Given that the proposed Extractive Industry is to occupy an area of greater than 150m² within the Rural Zone, the use requires the lodgement of **Material Change of Use – Impact Assessable** application with Council.

The proposal is therefore subject to the Public Notification requirements detailed in the relevant sections of the Planning Act (2016), Planning Regulations (2017) and the Development Assessment Rules – Version 1.1 (11 August 2017).

It is confirmed that the application to be lodged with Council, as the Assessment Manager is to include both the Material Change – Impact Assessment component (to be assessed by Council) and the other components relating to ERA, removal of quarry material, clearing of native vegetation etc (to be assessed by the relevant State Agencies).

DILGP will issue a Concurrence Agency Response to form part of the “approval package” issued by Council as the Assessment Manager.

In addition to the specific requirements for the concurrence agency elements the Material Change of Use – Impact Assessment component of the application should include, but is not limited to:-

- i) DA Form 1 – Application Details;
- ii) evidence of Land Owner’s Consent;
- iii) supporting Town Planning Report, including an assessment of the proposal against the Planning Scheme for Bouliia Shire (2006);
- iv) proposal plans;
- v) any other supporting Reports; and
- vi) payment of a Council Application fee (to be determined by Bouliia Shire Council).

The Development Assessment process, including Confirmation Notice (formerly Acknowledgement Notice), Information Request, referral of the application to the Department of Infrastructure Local Government and Planning (DILGP) and the Public Notification is detailed in the attached Impact Assessable Development Application “Flowchart” obtained from the DILGP website. This flowchart identifies the development assessment parts and relevant statutory timing under the Planning Act (2016) that commenced on 3 July 2017.

4.00 CONCLUSION

By way of conclusion it is recommended that a draft copy of the application can be provided to Council on an informal basis to enable preliminary review by Council and allow the applicant to be provided with feedback on the documentation prior to the formal lodgement of the application.

The informal lodgement of the application will also enable the relevant Council application fee to be determined.

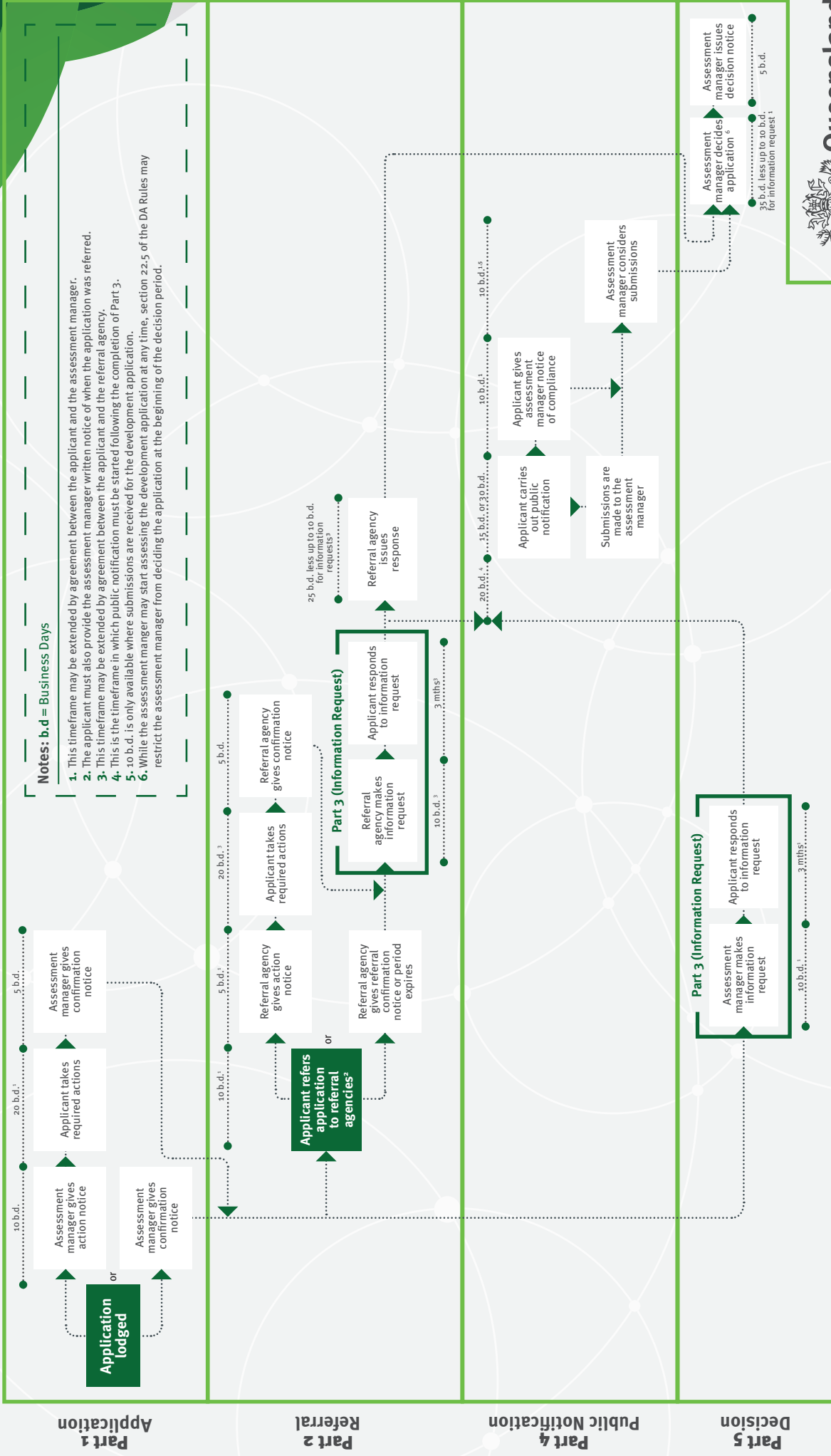
We also draw your attention to the DILGP website (planning.dilgp.qld.gov.au) providing access to the Development Application Forms, Development Assessment Rules (including public notification details) and other material relevant to the preparation of an application.

We confirm that this advice is provided on a preliminary basis.

We trust this assist and await your further advice.

VICTOR G FEROS TOWN PLANNING CONSULTANTS
DATED 21 AUGUST 2017

For an impact assessable development application involving: referral, information request and public notification



PART B

**ENVIRONMENTAL ASSESSMENT
AND OPERATIONS PLAN**

RIVERINE MATERIAL EXTRACTION ENVIRONMENTAL ASSESSMENT & OPERATIONS PLAN BURKE RIVER

ALLOCATION PERIOD: DECEMBER 2017 – JULY 2021

EXTRACTION/SCREENING ACTIVITIES

1 TO 10,000 TONNES PER YEAR

For the purposes of construction and maintenance works in the Bouliia
Region



MAY 2018

Version History

Date	Name	Position	Action required <i>(Review/Endorse/Approve)</i>
May 2018	J. Brown	Cultural Heritage Officer	Review
May 2018	W. Green	Environmental Engineer	Approve

Prepared by William Green
Title Environmental Engineer, George Bourne & Associates, Barcaldine Qld
Location 73 Elm Street, Barcaldine Qld
Version date May 2018
Status Issue
File/Doc no. 170087

Contact for enquiries and proposed changes

If you have any questions regarding this document or if you have a suggestion for improvements, please contact:

Project Manager William Green
Phone 07 4651 5177

Table of Contents

1. INTRODUCTION.....	2
2. ENVIRONMENTAL CONSIDERATIONS.....	3
2.1. River Morphology.....	3
2.2. Vegetation Management.....	8
3. EXISTING INFRASTRUCTURE / BUFFER ZONES.....	10
3.1. Civil Infrastructure.....	10
3.2. Overhead and Underground Services.....	10
4. OPERATIONS OVERVIEW.....	10
4.1. Details of Extraction Operations.....	10
4.2. Extraction Methodology.....	13
4.3. Operational Hours.....	13
4.4. Expected Quantities to be Removed During Operations.....	13
5. ORGANISATION STRUCTURE AND RESPONSIBILITY.....	14
6. ENVIRONMENTAL MANAGEMENT.....	16
6.1. Air Emissions.....	16
6.2. Water Management.....	17
6.3. Erosion & Sedimentation.....	18
6.4. Waste Management.....	19
6.5. Noise.....	20
6.6. Contaminated Sites.....	21
6.7. Flora & Fauna.....	22
6.8. Storage & Handling of Hazardous Goods & Fuels.....	23
6.9. Pest Control.....	24
6.10. Rehabilitation.....	25
7. MONITORING REPORTING AND RECORD KEEPING.....	26
7.1. Environmental Incidents.....	26
7.2. Complaint Management.....	26
Appendix A	
Appendix B	
Appendix C	
Appendix D	
Appendix E	
Appendix F	
Appendix G	

1. INTRODUCTION

The proposed extraction site lies within the banks of the Burke River on the Eastern side of the township of Boulia. This area includes the sandy riverbed between the Kennedy Development Road leading into Boulia and 300m South of Capewell Road on the NE side of Boulia.



Figure 1.1 Image Depicting Extraction Location

The Burke River is an ephemeral river forming one of the major tributaries of the Georgina River System, rainfall in the Burke River catchment is influenced by the Northern Australian summer monsoons and linked with El Nino and La Nina weather patterns. Large summer rainfall events are most likely to occur in the northern areas of the catchment with the lower parts of the catchment becoming increasingly arid.

The Channel Country associated with the area adjacent to and upstream of the proposed extraction site and much of the floodplain areas along the lower sections of the river are dominated by fine grained alluvial soils consisting of brown and grey cracking clay substrates. Due to these fine grained sediments making up large extents of the local geomorphology, the water flows in the lower regions of the Burke River are generally turbid, giving the water a typical brown colour.

Based on anecdotal evidence and to a small extent the Historical Aerial photography the morphology of the river within the proposed extraction site has remained stable over recent times. According to local Anecdotal evidence however there is evidence of the aggradation of sediment in the area upstream of the Kennedy Development road to the North-East of town, which from local knowledge is understood to have held greater volumes of water for longer periods and was once a source of freshwater for public use and recreational activities.

The extraction activity to be carried out is to provide sand material for use in commercial activities such as production of pipe bedding sand, cement manufacture and clean sand for general commercial uses. The activity involves the use of heavy winning machineries in order to extract the required material.

PE & GC Harris Road Contractors are the registered operator for the extraction site referred to within this Operations Management Plan (OMP). Contact details for the registered operator are as follows:

PE & GC Harris Road Contractors
P.O. Box 9,
Boulia, QLD
4829
Phone: 0428463113
Email: gem_harris@bigpond.com

ERA 16 activities are permitted under a "Code of environmental compliance for certain aspects of extractive, screening and dredging activities (ERA 16)". PE & GC Harris Road Contractors must hold an Environmental Authority (ERA 16) and operate within the scope of the "eligibility criteria and standard conditions of the ERA 16. Schedule 2 of the Environmental Protection Regulation 2008 defines extraction/screening activities as an Environmentally Relevant Activity (ERA 16). This plan will cover the extraction ERA 16-2(b) of material from the proposed pit. The applicable ERA 16 thresholds are as follows:

- ERA 16-1(b) - extractive and screening activities - dredging 1,000 to 10,000 tonnes of material in a year - Concurrence ERA.

2. ENVIRONMENTAL CONSIDERATIONS

2.1. River Morphology

The Burke River forms one of the major tributaries of the Georgina Drainage Basin most of the basin has very low relief values. Relatively high relief values are confined to the upper catchment areas of the Burke River in the Selwyn range South of Mt Isa. The proposed Extraction site within the Burke River has a very low relief value and can be classed as a valley bottom flat class reflecting the floodplain environment consistent with an anastomosing river system. The flood plains associated with much of the lower reaches of the Burke River mostly consists of self-mulching grey cracking clays. Site surveys of the extraction area confirm that the soil types outside of the river bed are comprised of clay material forming the steep banks adjacent to the river bed. Due to the low relief values experienced in the lower reaches of the Burke River and subsequent high degree of sinuosity, distinct riffles and pooling areas can be identified where the river channel is narrower and flow velocities are slightly higher, evidence of the formation of subtle pools and riffle processes are evident in the upstream locations from the proposed extraction site to the South of Capewell Road. However the designated extraction area is in a wider section of the river with evidence of extensive deposition of sand.



Figure 2.1. Photo depicting narrow section of channel with riffle and pools present upstream from the extraction site.

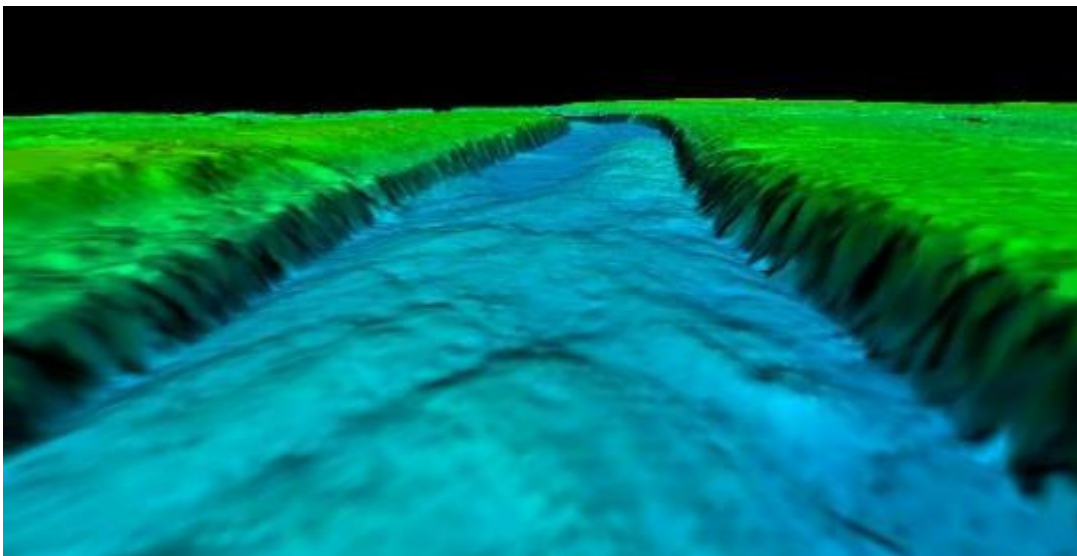


Figure 2.2. Lidar image depicting river with steep banks and evidence of deposition of material.



Figure 2.3. Photo depicting wide section of river with absence of deep pools or riffle

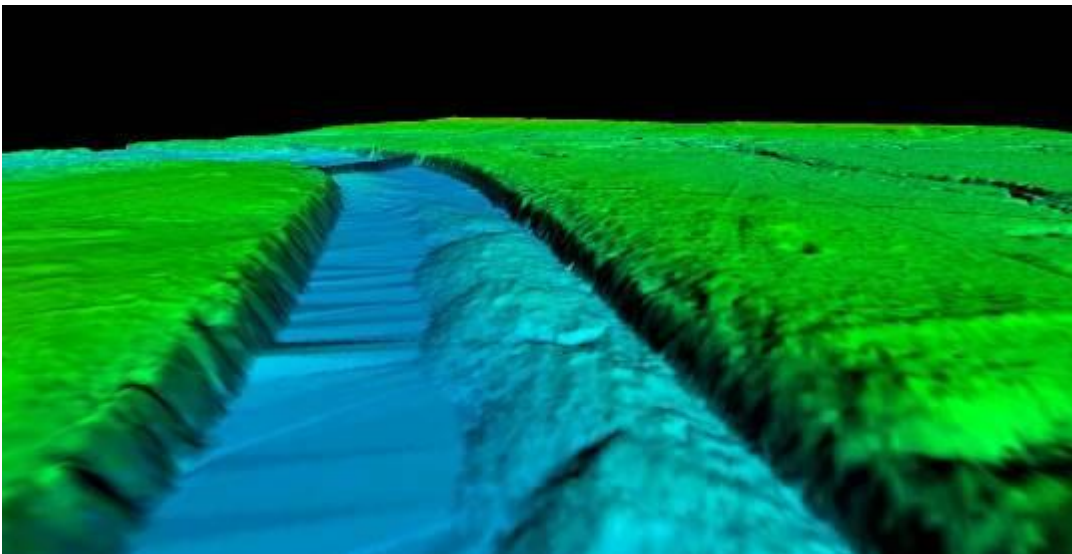


Figure 2.4 Lidar image of wide section of river channel with uneven deposition of material across channel.

The Banks of the river in the extraction area vary to some degree but are generally in the vicinity of 2 to 3 m high. Generally the banks are composed of fine clay material supported by vegetation growing on the banks such as *E. camaldulensis*. The formation of the river banks in the proposed extraction area range from being quite steep (almost vertical) to moderately steep (approximately 45°). The presence of highly erosive or unstable bank formations in the proposed extraction area are minimal with no evidence of the under cutting of banks at any locations. In general the river banks adjacent to the extraction area are relatively stable; the generally stable nature is likely due to a reasonably well balanced electro chemical nature of the fine grained clays when in contact with flood waters and also due to relatively low water velocities associated with floods in this area.



Figure 2.5 Photo depicting bend in river with presence of steep banks



Figure 2.6 Photo depicting wider section of river with lower gradient

Aerial photography of this site has been sourced dating back to 1971 through to 2013 including an intermediate image taken in 1999. This imagery presented below demonstrates the general morphology of the river channels has not undergone significant change over this time, depicted by the unchanged flow paths of the braided channels and the channel widths remaining relatively unchanged throughout this time.



Figure 2.7 Aerial Photograph 30-6-1970



Figure 2.8 Aerial Photograph 8-9-1999



Figure 2.9 Google Earth satellite image taken 25-9-2013

2.2. Vegetation Management

The vegetation mapping for this area according to DNRM mapping database (Refer to appendix D) shows the area adjacent to the river bed as least concern RE 4.3.20 open hermland on braided alluvial plains, and 4.3.3 gilvum open woodland on drainage lines. These vegetation communities vary in composition depending on location, the vegetation (4.3.20) is dominated by grasses such as *Sporobolus mitchellii*, *Astrelba* spp. and forbs and in dry conditions can be denuded of any species. Scattered low shrubs are present in the drainage lines and are frequently fringed by *Eucalyptus coolabah* and *Eucalyptus camaldulensis*. Regional Ecosystem 4.3.3 occurs on levees and banks of intermediate and larger drainage channels and associated alluvial plains. *Eucalyptus coolabah* usually predominates forming a distinct but discontinuous upper canopy layer of *Eucalyptus camaldulensis* in sandy or gravelly channels. The ground layer is variable being composed of grasses and forbs with either predominating depending on seasonal conditions.



Figure 2.10 *E.camaldulensis* forming canopy layer of vegetation community

The method of extraction (detailed below) will not require the clearing of large areas of vegetation. The operational activities of the site will utilise existing tracks leading into the waterways for the extraction of sand from the river bed (Refer to Appendix A, Site Activities Map). Rubber tyred machinery such as a front end loader will be utilised to extract the material and take it to a waiting truck. This methodology reduces the level of disturbance by:

- Utilising existing access track leading into the river
- Avoiding the use of steel track machines and subsequent soil disturbance on river banks
- Avoiding the stockpiling of extraction material in riparian areas by loading directly into trucks
- Maintaining all excavations within the confines of the river bed, ensuring extraction does not take place in or directly adjacent to the riverbank

The disturbance to endemic vegetation species or communities will be avoided wherever possible. The removal of vegetation species will be limited to approved disturbance areas designated for access and operational activities outside of the river bed identified in the Site Management Map in Appendix A.

3. EXISTING INFRASTRUCTURE / BUFFER ZONES

3.1. Civil Infrastructure

On the lower extent of the extraction site the Kennedy Development Rd crosses the Burke River the crossing consists of a multispan bridge approximately 4m high with concrete pylons anchored into the riverbed. Excavation in this area could jeopardise the integrity of the structure, it is essential that extraction activities do not take place in the immediate vicinity of this bridge, the authorised extraction area pertaining to this extraction permit and Quarry Material Allocation does not extend within 100M of this structure.



Figure 3.1 Bridge over Burke River forming Kennedy Developmental Road, 100 meter buffer zone required.

3.2. Overhead and Underground Services

Prior to excavation taking place, services such as electrical and communication within the vicinity of the extraction area will clearly be identified by the registered contractor.

4. OPERATIONS OVERVIEW

4.1. Details of Extraction Operations

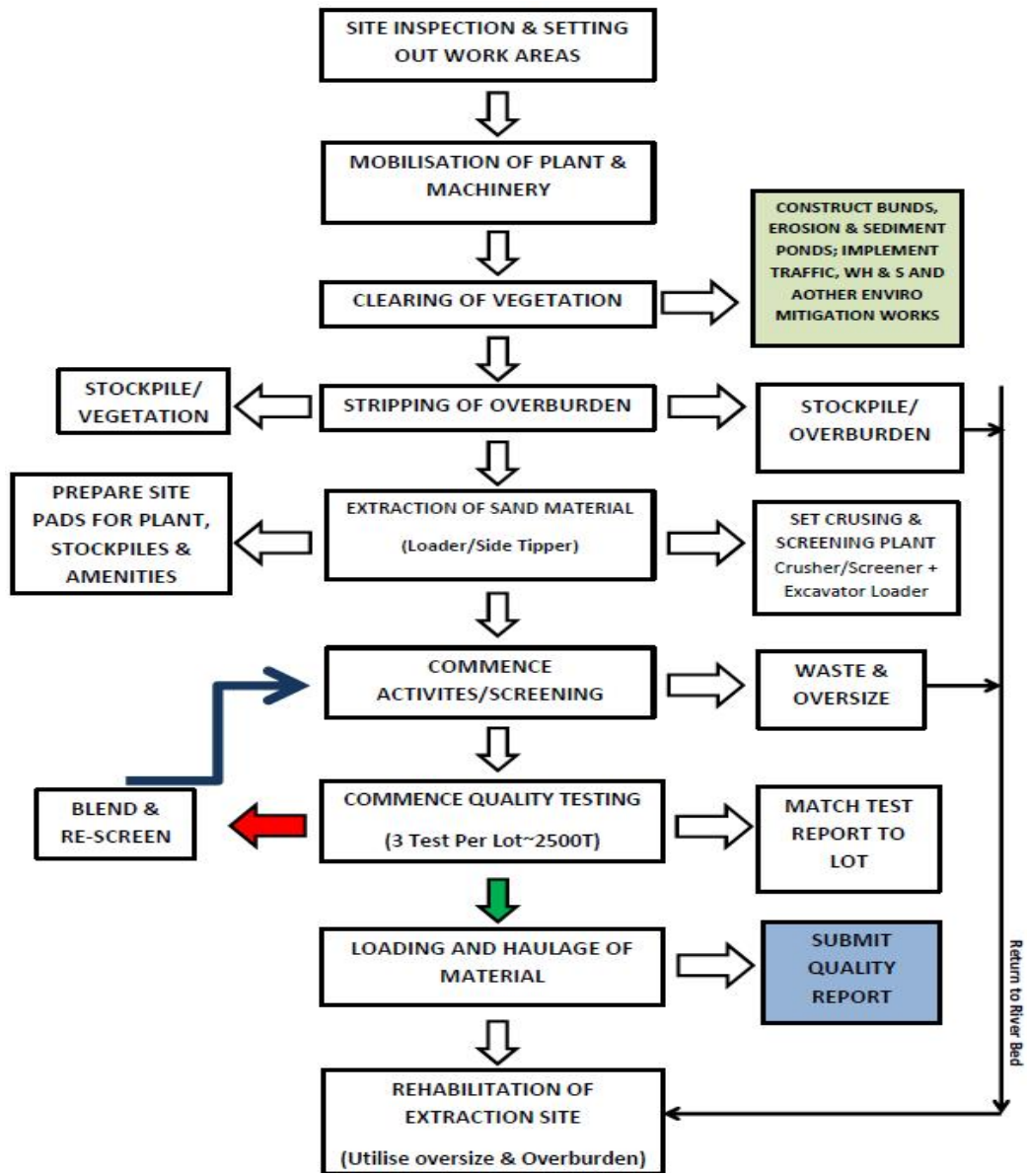
This Operations Plan for Riverine Quarry Material Extraction refers to a location on the eastern outskirts of Boulia in Western Queensland. The work site is a long linear area which is contained within the bed of the Burke River 105m upstream of the Department of Transport and Main Roads Bridge on the Kennedy Developmental Road and extends approximately 600m upstream from the downstream extent of the extraction area. The purpose of these activities is to produce material suitable for concrete production, pipeline bedding materials and drainage material for projects relating to the repair, maintenance and construction undertaken by PE & GC Harris Road Contractors, within the Boulia Shire Council Region.

The gravel material will be loaded onto trucks with a loader and carted to the designated work area. Transport vehicles will range in size dependant on the scale of the works required. The details of the expected equipment utilised on site are outlined in the table below.

Table 4.1 Operational equipment

Type	Details / Operator	Function
Loader	1	To load material into trucks. Also used to screen material.
Multi Axle Road Train	1	Haulage of material from site to the road to work site
Water Cart	1	Suppressing dust on site when required

Figure 4.2 Extraction Process



4.2. Extraction Methodology

Extraction activities will only take place following dry periods when there is no water flow in the river ensuring that extraction activities do not adversely impact on the natural ecological processes associated with flows in this river system. The extraction of material when the river bed is dry will ensure that activities do not contribute to increased turbidity levels caused by machinery operations and subsequent increase in sediment loads to river flows. The absence of activity during periods of flow will also minimise disturbance to fresh water ecological processes such as disturbance to aquatic habitat or breeding activities.

The adopted method of extraction is an open cut extraction method. No drilling or blasting will be used for the extraction of the material. All sand removed would be within the confines of the riverbed, maintaining a five meter buffer from the river banks. Operations are to be confined to the adjacent unallocated state land. The sand material will be extracted and immediately loaded into a waiting truck located outside of the riverbanks. Generally, depth of extraction will not be no more than 2m (from undisturbed bed level) and tapering out to the natural surface level. Pit batter will not be steeper than 1:10. If deemed necessary the extracted material may be pushed up and stockpiled in the river bed temporarily to a maximum 2m high windrow with a slope not steeper than 1:1. Stockpiling will not occur over extended periods and should only occur within the riverbed in the dry season for no longer than 3-4 days. If material stockpiled within the watercourse cannot be used onsite within a 3-4 day period the material must be taken offsite and stockpiled at PE & GC Harris's work depot until required onsite, stockpiling in the watercourse should not occur at any time in the wet season or when significant rain in the catchment is forecast. The extracted material will be loaded onto trucks with a loader utilising the approved access point into the river and carted away (See appendix A for Site Management Map).

4.3. Operational Hours

Operational hours will be Monday to Sunday, start from 6am to 6pm during periods of activity on site.

4.4. Expected Quantities to be Removed During Operations

The site will not be operated on a continual basis, extraction will occur on an as needs basis so specific figures for daily, weekly, monthly and annual quantities cannot be accurately estimated. The quantities to be extracted will highly dependent on construction activities in the local area, it is anticipated that annual extraction quantities will therefore vary significantly depending on demand for the product in the local area, it is estimated that extraction quantities will be within the range of 1,000m³ to 5,000m³ per annum with a maximum extraction threshold of 10,000 tonne.

The extracted sand is considered by PE & GC Harris Road Contractors to be of sufficient quality that it will not require screening or processing on site.

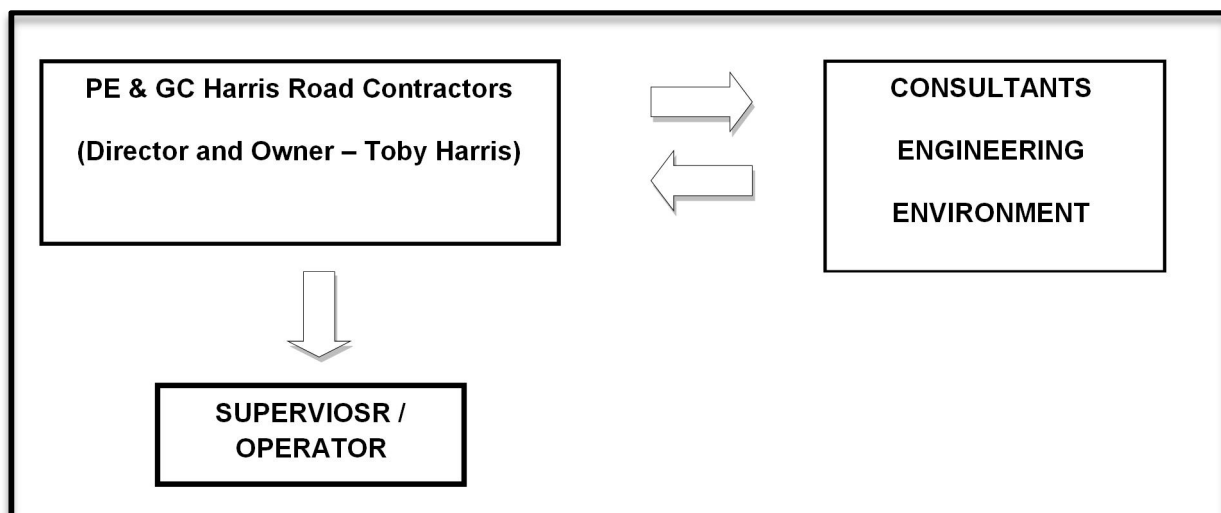
In general PE & GC Harris Road Contractors will primarily be extracting sand when it is required for works projects. The material extracted will be removed from site and if not required immediately it will be stockpiled at a stockpile pad

at PE & GC Harris's work depot until required for works rather than stockpiled on site.

5. ORGANISATION STRUCTURE AND RESPONSIBILITY

PE & GC Harris Road Contractors are a small family run business employing approximately 5 fulltime employees. The extraction of sand from the Burke River extraction site will be a small operation operating intermittently throughout the year. The majority of responsibility for the management of the operation will lie with the business owners and when required consultation will be sought for additional information pertaining to the management of the operation.

Figure 5.1 The organisational structure is outlined Below:



Responsibilities specific to the owner / director include:

- Be responsible for ensuring the maintenance and construction activities comply with the *Environmental Protection Act 1994* and other relevant statutory regulations;
- Ensure that environmental awareness training is conducted and ongoing for the duration of the contracts.
- Manage the requirements of the OMP;
- Provide training, resources and advice to employees
- Assist in the maintenance, monitoring and auditing of the control measures.
- Liaise with regulatory agencies regarding requirements for approvals, licences, permits and authorities
- Delegate as appropriate, environmental responsibilities for pit operation
- Liaise with engineers/contractors environmental & cultural heritage reps to ensure measures within plan are considered at pre-start
- Ensure toolbox meeting and site inductions are carried out by all pit personnel prior to works commencing on site
- Oversee implementation of site registers and distribution of OMP so that it is accessible to all personnel on site and other regulatory agencies who may require records of site operations.
- Assist environmental staff on environmental audits & completion of audit checklist
- Audit compliance with this OMP, including conducting inspections of works and provide completed inspection checklists if requested.

- Point of contact regarding requirements of environmental legislation and training requirements
- Investigate and responding to environmental incidents as a result of site operations
- Report environmental incidents (within 24 hrs of incident) to Administering Authority (i.e DEHP) in accordance with EPA 94.
- Ensure all site personnel provided with environmental induction prior to commencement of work on the site
- Liaise Works Supervisor and staff on all matters relating to the environmental management of the site
- Initiate compliance inspections, tests and measurements in accordance with approved work conditions
- Comply and assist in the implementation and maintenance of measures outlined in the OMP

6. ENVIRONMENTAL MANAGEMENT

6.1. Air Emissions

Description	<ul style="list-style-type: none"> - To ensure that the activities do not result in air quality impacts by the unreasonable release of contaminants to the air environment, including odours, dust, smoke or other air contaminants.
Performance Criteria	<ul style="list-style-type: none"> - To minimise the effects of emissions and dust on the environment. - To comply with the requirements of the following: <ol style="list-style-type: none"> 1. Environmental Protection (Air) Policy 2008 2. Environmental Protection Act 1994 3. Fire and Rescue Services Act 1990
Action	<ul style="list-style-type: none"> - All plant and equipment to be regularly serviced and maintained to permit efficient operation and minimise exhaust and fuel emissions targets below the limits set by Australian design rules. - Burning will only be allowed on sites where the necessary permits have been obtained, as required under the Fire and Rescue Services Act 1990. - Control measures may include: <ol style="list-style-type: none"> 1. Regular watering of the site and access roads. 2. Fitting equipment with dust suppression devices. 3. Covering loads. 4. Maintaining clean roadways to and from the maintenance/construction zone. 5. Ensuring that all work facilities erected at the works are designed and operated to prevent the emission of smoke, dust and other objectionable matter into the atmosphere.
Control Devices	<ul style="list-style-type: none"> - Water carts/sweepers. - Regular maintenance of plant and equipment.
Responsibilities	<ul style="list-style-type: none"> - Construction: Supervisor - Recording: Environmental Representative - Monitoring: Supervisor - Auditing: Environmental Rep
Monitoring Procedure	<ul style="list-style-type: none"> - The Supervisor shall continuously monitor the effects of dust, vehicle emissions and rectify by implementing the required control measures.
Recording	<ul style="list-style-type: none"> - The Environmental Representative shall record any incident or complaint

6.2. Water Management

Description	<ul style="list-style-type: none"> - To ensure activities do not result in environmental harm or nuisance to: <ol style="list-style-type: none"> 1. Water bodies downstream of the site; and/or 2. Permanent water bodies within the site.
Performance Criteria	<ul style="list-style-type: none"> - To comply with the water quality provisions of the Environmental Protection (Water) Policy 2009.
Action	<ul style="list-style-type: none"> - Any potential affected water bodies and potential 'contaminants' from the work activities to be identified prior to commencing the activities. - Control measures may include: <ol style="list-style-type: none"> 1. Only essential chemicals, fuels, oils etc, be kept on work sites. 2. Storage and handling of chemicals on work sites to be as per the requirement AS1940-1993 3. On-site refuelling of vehicles not to be conducted within 30m of a river, creek or floodway to protect drainage channels and watercourses from accidental spillage and/or loss incident. 4. Spill kits are to be available and kept on site where necessary. 5. Spray bars not to be cleaned in drainage lines or in the immediate vicinity of watercourses or on areas prone to erosion. 6. Spraying should be conducted in such a manner that spray drift into riparian zone does not occur. 7. Stockpiles are not to be established in watercourses. 8. Bins and portable ablution blocks to be used.
Control Devices	<ul style="list-style-type: none"> - Approved waste disposal facilities. - Spill kits. - Rubbish bins and portable ablution blocks.
Responsibilities	<ul style="list-style-type: none"> - Construction: Supervisor - Recording: Environmental Representative - Monitoring: Supervisor - Auditing: Environmental Representative
Monitoring Procedure	<ul style="list-style-type: none"> - The Supervisor to ensure work activities are carried out as prescribed above.
Recording	<ul style="list-style-type: none"> - The Environmental Representative shall record any incident or complaint

6.3. Erosion & Sedimentation

Description	<ul style="list-style-type: none"> - To ensure adequate erosion and sediment controls measures are in place to: <ol style="list-style-type: none"> 1. manage erosion and sedimentation within the work zone; and 2. minimise the possibility and impact of erosion and sedimentation particularly stormwater runoff emanating from uphill areas on downstream water quality.
Performance Criteria	<ul style="list-style-type: none"> - To comply with the requirements of the following: <ol style="list-style-type: none"> 1. Environmental Protection (Water) Policy 2009 2. Vegetation Management Act 1999 3. Environmental Protection Act 1994.
Action	<ul style="list-style-type: none"> - Control measures may include: <ol style="list-style-type: none"> 1. Maintenance of existing drainage and erosion and sedimentation control measures (eg. Existing diversion drains). 2. Minimising the area of clearing and minimising the extent and duration of soil exposure. 3. Limit grading to those areas involved in current construction activities. 4. Divert clean waters from areas of disturbance. 5. Early installation of permanent drainage measures. 6. Protect exposed soil surfaces from erosion. 7. On-site capture of sediments. 8. Manage topsoils. 9. Progressive stabilisation and rehabilitation of disturbed areas. 10. Construction of cross drains and water bars (see attachment 2).
Control Devices	<ul style="list-style-type: none"> - Temporary structures such as check dams and drains, sand bag structures, sediment fences, sediment traps, diversion drains, detention basins, bund walls, balks, vegetation etc may be required in areas of high erosion potential. - Other erosion or sediment controls will be considered that it deems necessary to overcome local problems.
Responsibilities	<ul style="list-style-type: none"> - Construction: Supervisor - Recording: Environmental Supervisor - Monitoring: Supervisor - Auditing: Environmental Rep
Monitoring Procedure	<ul style="list-style-type: none"> - The Supervisor shall continuously monitor the erosion and sedimentation control devices
Recording	<ul style="list-style-type: none"> - The Environmental Representative shall record any incident or complaint (i.e. Land contamination and water quality issue).

6.4. Waste Management

Description	<ul style="list-style-type: none"> - To minimise the impact of waste on the environment by among other things ensuring rubbish and other waste materials generated as a result of the activities are suitably contained until disposal or reuse.
Performance Criteria	<ul style="list-style-type: none"> - To comply with the requirements of the following 1. Waste Reduction and Recycling Act 2011. 2. Waste Reduction and Recycling Regulation 2011.
Action	<ul style="list-style-type: none"> - Control measures may include: 1. No waste or litter to be burnt or buried on a maintenance or construction site 2. Excess materials to be reused, recycled or disposed of at approved locations 3. Rubbish bin provided 4. Contaminated waste to be kept separate of general waste, and disposed of by appropriately licensed waste carriers in a legally approved location 5. All hazardous wastes are to be disposed of in accordance with the requirement of the EPA and approvals obtained prior to removal or remediation of contaminated land 6. The work site is to be left in a neat and tidy state on completion of the activities.
Control Devices	<ul style="list-style-type: none"> - Approved waste disposal facilities. - Rubbish bin.
Responsibilities	<ul style="list-style-type: none"> - Construction: Supervisor - Recording: Environmental Rep - Monitoring: Supervisor - Auditing: Environmental Rep
Monitoring Procedure	<ul style="list-style-type: none"> - The Supervisor shall ensure waste is reused, recycled where possible. - The Supervisor shall ensure waste is disposed of appropriately. A register of waste disposal details for hazardous waste shall be kept by the CER. The register should include quantities of waste, waste transporter details (name of company, licenced operators name and licence number) and location of disposal.
Recording	<ul style="list-style-type: none"> - The Environmental Representative (CER) shall keep a hazardous waste disposal register.

6.5. Noise

Description	- To minimise the noise associated with the activities so as not to cause environmental nuisance or harm.
Performance Criteria	- To comply with the requirements of the following: 1. Environmental Protection (Noise) Policy 1997 2. Environmental Protection Act 1994.
Action	- Possible noise sensitive place in relation to work sites should be considered before commencing activities. - Control measures may include: 1. Machineries shall only be operated within normal working hours. 2. All plant, machinery and tools should be maintained in good order (as per manufactures specifications) to reduce engine wear and noise. 3. All plant, machinery and tools shall be fitted with appropriate silencing equipment as required. 4. All plant and machinery shall be operated with engine covers installed where possible. 5. Neighbouring properties to be advised of proposed operations.
Control Devices	- Work to be conducted during normal working hours. - Silencers/Placement of plant and equipment. - Minimise number of machines working at a given time where possible. - Machinery to be turned off when not in use.
Responsibilities	- Construction: Supervisor - Recording: Environmental Representative - Monitoring: Supervisor - Auditing: Environmental Rep
Recording	- The Environmental Representative shall record any incident or complaint.

6.6. Contaminated Sites

Description	- To identify and manage known and additional contaminants found within work sites so as not to cause environmental nuisance.
Performance Criteria	- To comply with the requirements of the Environmental Protection Act 1994.
Action	- Control strategies: 1. Notify Supervisor in charge of work site. 2. Notify the Environmental Protection Agency. 3. Seek advice from EPA and prevent the spread of contamination.
Control Devices	- Remediation of contaminated sites by treatment and/or encapsulation and/or removal and disposal of contaminants. - Backfilling of remediated sites with clean fill.
Responsibilities	- Construction: Supervisor - Recording: Environmental Representative - Monitoring: Supervisor - Auditing: Environmental Representative
Recording	- The Environmental Representative shall record the location of all known contaminated sites, including the known contaminants and the proposed remediation actions. CER to record details of transportation and disposal of contaminated waste on the Waste Management and Disposal Register (Appendix 10)

6.7. Flora & Fauna

Description	- To take due care not to harm native Flora and Fauna and management of vegetation within work sites.
Performance Criteria	- To comply with the requirements of the Environmental Protection and Biodiversity Conservation Act 1999, Nature conservation Act 1992, Vegetation Management Act 1992 and the Land Act 1994.
Action	<ul style="list-style-type: none"> - Control measures may include: <ol style="list-style-type: none"> 1. Confine activities within the existing footprint where possible. 2. All trees and shrubs are to be left undisturbed as much as practical. 3. Hollow logs are to be relocated to an area clear of the work site. 4. Preserve areas of significant habitat value by clearly marking them prior to works commencing and ensure all on-site staff is aware of the designated exclusion zones. 5. All native fauna are to be avoided if possible and any fauna found injured are to be reported and taken to an animal carer where possible. 6. All material cleared and grubbed is to be stockpiled for later rehabilitation of the work site.
Responsibilities	<ul style="list-style-type: none"> - Construction: Supervisor - Recording: Environmental Representative - Monitoring: Supervisor - Auditing: Environmental Representative
Monitoring Procedure	- The Supervisor to monitor clearing activities. On site staff are to be aware of clearance limits and are required to notify the Supervisor of any disturbance or damage outside the designed area.
Recording	- The Environmental Representative shall record all site reviews undertaken and any incidents.

6.8. Storage & Handling of Hazardous Goods & Fuels

Description	- To manage all chemicals and fuels on work sites.
Performance Criteria	- To comply with the requirements of the following: 1. Environmental Protection (Water) Policy 2009. 2. Workplace Health and Safety Act 2011. 3. AS1940 "The Storage and Handling of Flammable and Combustible Liquids".
Action	- Control measures may include: 1. Minor maintenance (i.e. oil change etc) cannot be conducted on work site. 2. Refuelling of machinery on site shall conform to the following requirements: a. There is no refuelling within 100m of a watercourse or drainage line, onsite refuelling to take place at designated hardstand area b. Fuelling activity to be supervised at all times c. Hose to be fitted with a stop valve at the nozzle end. 3. A hydrocarbon spill kit will be kept on-site and shall be of size/capacity to contain/clean up the volume of chemical and fuels being used on site (as per the requirements of AS1940). 4. All chemicals and fuels onsite stored in volumes greater than 15l must be stored within a secondary containment system. 5. All machinery to be maintained to minimise the leakage of oil, fuel and hydraulic and other fluids. 6. Petroleum product spills are to be managed as per Appendix F "Petroleum Spillage Action Plan".
Control Devices	- Hazardous goods to be stored in storage containers in a bunded enclosure. - Fuel to be stored at work sites in purpose built tanks.
Responsibilities	- Construction: Supervisor - Recording: Environmental Representative - Monitoring: Supervisor - Auditing: Environmental Representative
Monitoring Procedure	- The Supervisor shall ensure work activities are carried out as prescribed above.
Recording	- The Environmental Representative shall record any incident or complaint.

6.9. Pest Control

Description	- Identify the "Declared Plants" and other exotic flora and the containment of these weeds
Performance Criteria	- Reduce the spread of weeds and eradicate "Declared Plants". - Comply with the requirements of the Land Protection (Pest and Stockroute Management) Act 2002.
Action	- Measures should be taken to prevent weed spread on and off work site. - Adopt the use of any primary pest management strategy developed under Land Protection (Pest and Stockroute Management) Act 2002. - Control measures may include: 1. Investigation to work site prior to the disturbance of the natural surface. 2. Stockpiling and setting aside weed free topsoil for reuse in site rehabilitation. 3. Cleaning down machinery (water or compressed air) moving to another area (particularly from a known weed infested area). 4. Installing or use of vehicle and infrastructure wash-down facilities. 5. Isolating and avoiding infested areas. 6. Use of chemical control methods for pest plant species. 7. Burial or isolation of infested soil material.
Control Devices	- Pest Management Plan. - Washdown bays/areas. - Chemical control.
Responsibilities	- Construction: Supervisor - Recording: Environmental Representative - Monitoring: Supervisor - Auditing: Environmental Representative
Monitoring Procedure	- After cessation of work from pit site, the rehabilitated pit site shall be checked for weed infestations for at least 6 months.
Recording	- The Environmental Representative shall record all site reviews undertaken and any incidents of weed infestation before, during and after works.

6.10. Rehabilitation

Description	- To rehabilitate and encourage the establishment of vegetation on the work site at completion similar to its surrounding undisturbed areas.
Performance Criteria	- Reduce the risk of slumping. - Minimise the potential for erosion of the site. - Establishment of vegetation of same species and density
Action	- Control measures may include: 1. The site will only be operational during periods of no flow in the waterway 2. Outside of periods of extractive operations the river bed will be rehabbed to as close to original profile as possible to ensure water flows are not adversely affected 3. In the event that oversize or other non-target material is disturbed in the extraction process this material will be retained in the riverbed and placed in the vicinity of its original location to minimise disturbance to habitat features 4. The site will be progressively rehabilitated ensuring that each time a stage of the activity is completed the site is re-profiled to match pre-existing contours as closely as possible 5. The river bed banks will be stabilised prior to the deployment offsite. Stabilisation will be achieved through the use of best practice erosion and sediment control techniques 6. Reuse the stockpile within 12 months where practical. 7. Use of seeds during rehabilitation 8. Use of fertiliser if required to promote vegetation establishment 9. All batters to be cut to a slope of not greater than 1:4 10. Final rehabilitation activities should aim to achieve final profiles to match pre-existing contours as closely as possible, avoiding unstable batters and subsequent exposure to accelerated sediment movement.
Responsibilities	- Construction: Supervisor - Recording: Environmental Representative - Monitoring: Supervisor - Auditing: Environmental Representative
Monitoring Procedure	- A joint inspection of the pit site shall be jointly carried out by the all interested parties involved prior to the expiry of defects liability period, (6 months) to identify any defective works.
Recording	- The Environmental Representative shall record all site reviews undertaken and any incidents.

7. MONITORING REPORTING AND RECORD KEEPING

7.1. Environmental Incidents

An effective response procedure is necessary to preserve the local environment and minimise any potential impacts to community values and health. The environmental incident reporting procedure is a planning and management tool to assist site personnel on dealing with incidents with the potential to cause environmental harm and/or nuisance. It is designed to identify the steps and actions need to be taken to respond to these incidents.

In the event of an environmental incident that causes or has the potential to cause serious or material environmental harm, the supervisor in charge and Environmental Protection Agency shall be advised as soon as possible, but not later than 12 hours following the reporting of an incident. Notification of these type of incidents to the EPA is a legal requirement under S320(1) of the Environmental Protection Act 1994.

All activities resulting in environmental harm or nuisance, requires investigation with the following key elements being covered:

- Determination of the level of the environmental harm;
- Immediate and long term remedial action;
- Monitoring of remedial action for effectiveness;
- Preventive action(s) to ensure non repetition of the occurrence.

Emergency response procedures include:

- Report to Site Supervisor or relevant officers;
- Clean-up procedures;
- Road closure, traffic management and evacuation procedures;
- Location of storage and disposal of contaminants;
- Contact expert advice or licensed specialist of the handling of the contaminants;
- Investigation

7.2. Complaint Management

Environmental complaints may be received in relation to the work activities. Complaints made will be directed to the Site Supervisor and recorded in the 'Environmental Incidents and Public Complaints Recording Form' (Refer to Appendix D) then determine what if any action should be taken.

In the event of a registered complaint that requires remedial action, all relevant stakeholders such as the property owner's, Environmental Protection Agency, Council and Contractors shall be notified of the incident and kept informed on any remediation actions taken.

References

DATSIMA (2017) Aboriginal Cultural Heritage Act 2003 Duty of Care Guidelines; (Queensland Government) [URL <https://www.datsip.qld.gov.au/resources/datsima/people-communities/cultural-heritage/duty-of-care-guidelines.pdf>] accessed on 04/10/2017

For further information on the cultural heritage duty of care, contact the Cultural Heritage Unit on telephone 13 74 68 or email enquires@datsima.qld.gov.au

EHP (2017), Copy of certified Regional Ecosystem & Remnant Map, Version 6.1 under the *Vegetation Management Act 1999*. Online Regional Ecosystem (RE) mapping (The Department of Environment & Heritage Protection, Brisbane. [URL <https://www.qld.gov.au/environment/plants-animals/plants/ecosystems>]; accessed on 04/10/2017.

EHP (2017), Copy of the certified Regional Ecosystem Map—version 6.1 under the *Vegetation Management Act 1999*. Online RE Data, The Department of Environment and Heritage Protection, Brisbane. [URL: <https://www.qld.gov.au/environment/plants-animals/plants/ecosystems>] Accessed on 03/10/2017.

EHP, (2017), Copy of the certified Essential Habitat Map - version 3 for the purpose of the *Vegetation Management Act 1999*. Online RE Maps, the Department of Environment & Heritage Protection, Brisbane. [URL: <https://www.qld.gov.au/environment/plants-animals/plants/ecosystems>] accessed on 03/10/2017

EHP, (2017), Queensland Government Wildlife Online for the purpose of the *Environmental Protection & Biodiversity Conservation Act 1999 (Cth.)* and *Nature Conservation Act 1992 (Qld)* Wildlife Online Extract, the Department of Environment & Heritage Protection, Brisbane. [URL: <https://www.qld.gov.au/environment/plants-animals/species-list>] accessed on 03/10/2017

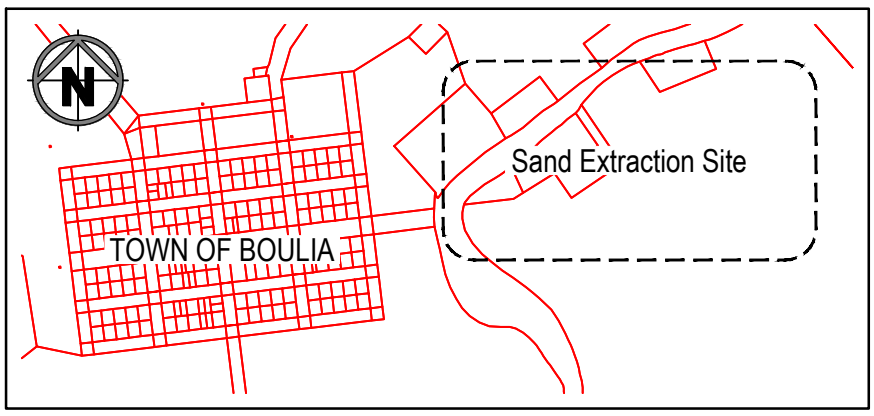
Department of the Environment and Energy (2017), Protected matters search tool report (PMST); for the purposes of the *Environmental Protection & Biodiversity Conservation Act 1999 (Cth.)*, Online report by region on nationally protected species and ecological communities, Department of Sustainability, Environment, Water, Population & Communities, Canberra. [URL <http://www.environment.gov.au/epbc/pmst/>] accessed on 04/10/2017

DNRM (2017), Queensland Government Information Service, Qld drainage, wetland and springs online mapping, The Department of Natural Resources and Mines. [URL <http://dds.information.qld.gov.au/dds/>] accessed on 03/10/2017

DATSIP (2017), Cultural Heritage Database and Register (for Aboriginal cultural heritage sites and areas), for purposes of the *Aboriginal Cultural Heritage Act 2003*, Online database search, Department of Aboriginal and Torres Strait Islander Partnerships(DATSIP). URL <https://culturalheritage.datsip.qld.gov.au/achris/protected/application-for-advice/enter>

Appendix A

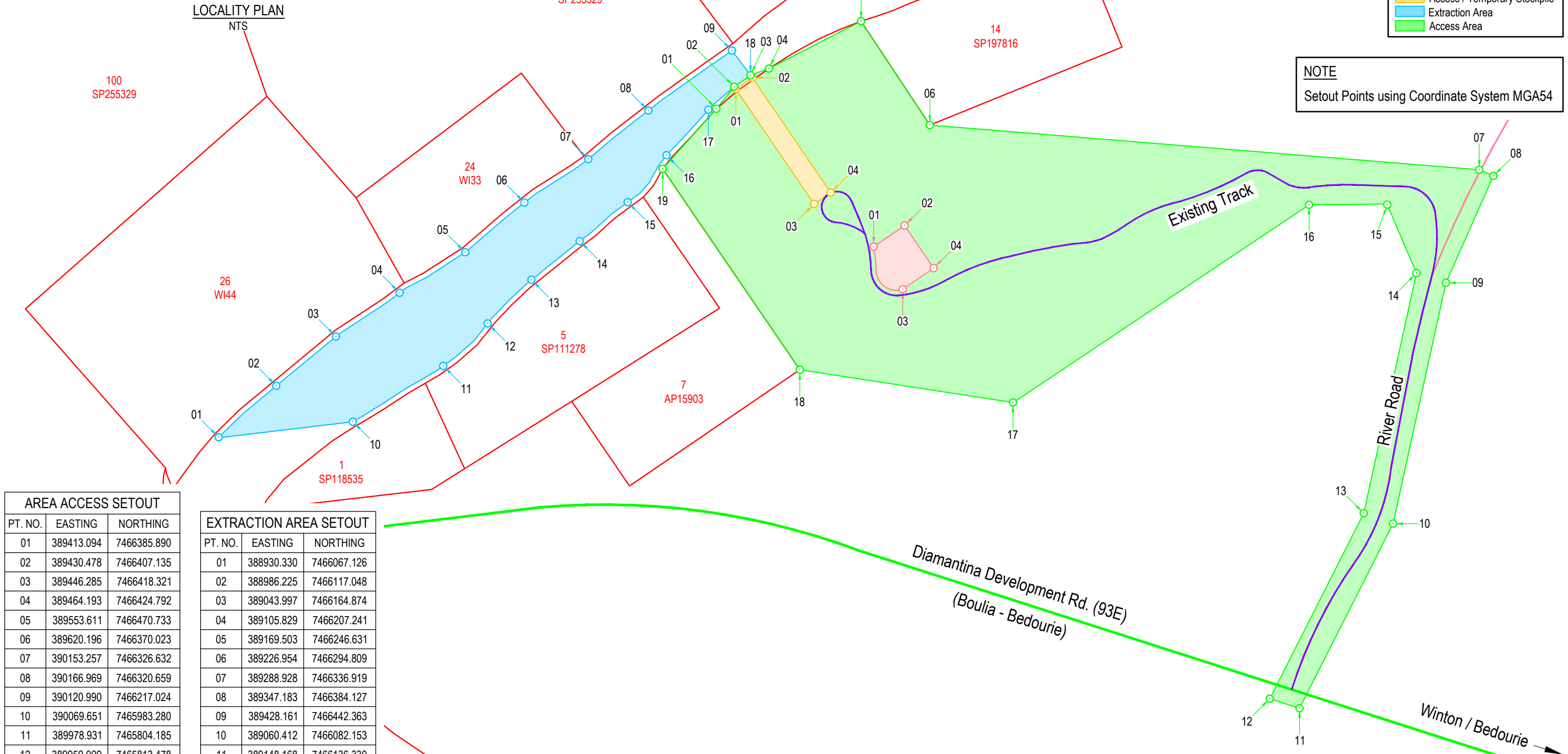
Site Management Map



- NOTES**
1. Stockpile on River Bank max. width of 19.5m
 2. Extraction Area limit to be 105.0m from Bridge
 3. Extraction Area limit to be 5.0m from all Property Boundaries and River Banks

- LEGEND**
- Access Track
 - Shire Road
 - DTMR Road
 - Bridge
 - Property Boundary
 - Stockpile / Hard Stand
 - Access / Temporary Stockpile
 - Extraction Area
 - Access Area

NOTE
Setout Points using Coordinate System MGA54



AREA ACCESS SETOUT

PT. NO.	EASTING	NORTHING
01	389413.094	7466385.890
02	389430.478	7466407.135
03	389446.285	7466418.321
04	389464.193	7466424.792
05	389553.611	7466470.733
06	389620.196	7466370.023
07	390153.257	7466326.632
08	390166.969	7466320.659
09	390120.990	7466217.024
10	390069.651	7465983.280
11	389978.931	7465804.185
12	389950.009	7465813.478
13	390041.167	7465993.438
14	390092.339	7466226.419
15	390064.062	7466292.879
16	389988.162	7466292.608
17	389700.833	7466100.788
18	389494.027	7466132.601
19	389361.005	7466327.492

EXTRACTION AREA SETOUT

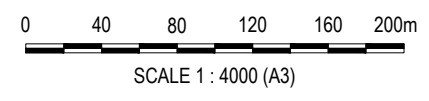
PT. NO.	EASTING	NORTHING
01	388930.330	7466067.126
02	388986.225	7466117.048
03	389043.997	7466164.874
04	389105.829	7466207.241
05	389169.503	7466246.631
06	389226.954	7466294.809
07	389288.928	7466336.919
08	389347.183	7466384.127
09	389428.161	7466442.363
10	389060.412	7466082.153
11	389148.168	7466136.330
12	389191.304	7466177.549
13	389233.764	7466219.807
14	389280.532	7466257.389
15	389327.078	7466295.125
16	389364.811	7466340.754
17	389405.466	7466384.873
18	389446.285	7466418.321

STOCKPILE / HARDSTAND SETOUT

PT. NO.	EASTING	NORTHING
01	389565.795	7466252.034
02	389595.763	7466272.489
03	389593.982	7466210.736
04	389623.950	7466231.191

ACCESS / TEMPORARY STOCKPILE SETOUT

PT. NO.	EASTING	NORTHING
01	389431.947	7466404.983
02	389448.053	7466415.976
03	389508.053	7466293.480
04	389524.159	7466304.473

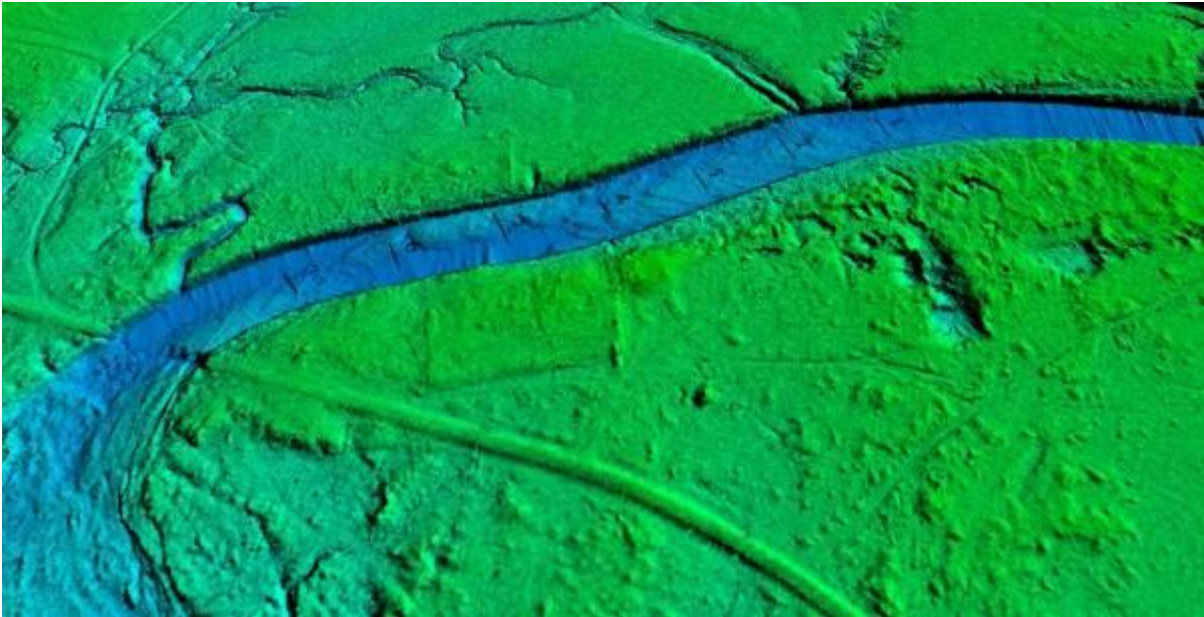


170087-SK1/01
BURKE RIVER SAND EXTRACTION

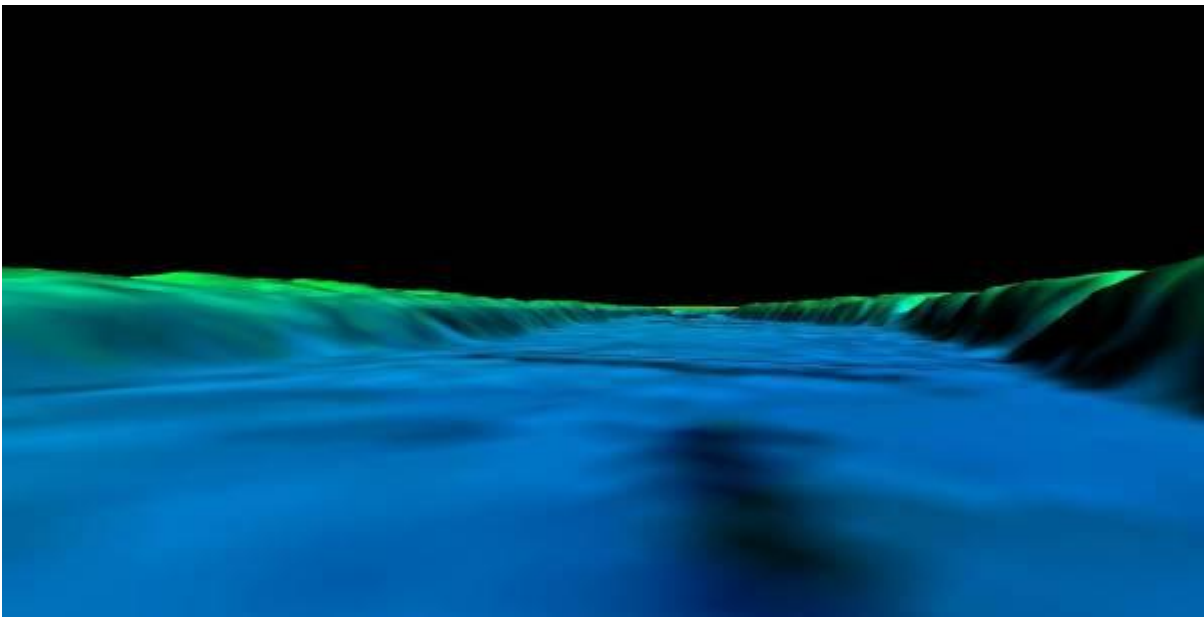


Appendix B

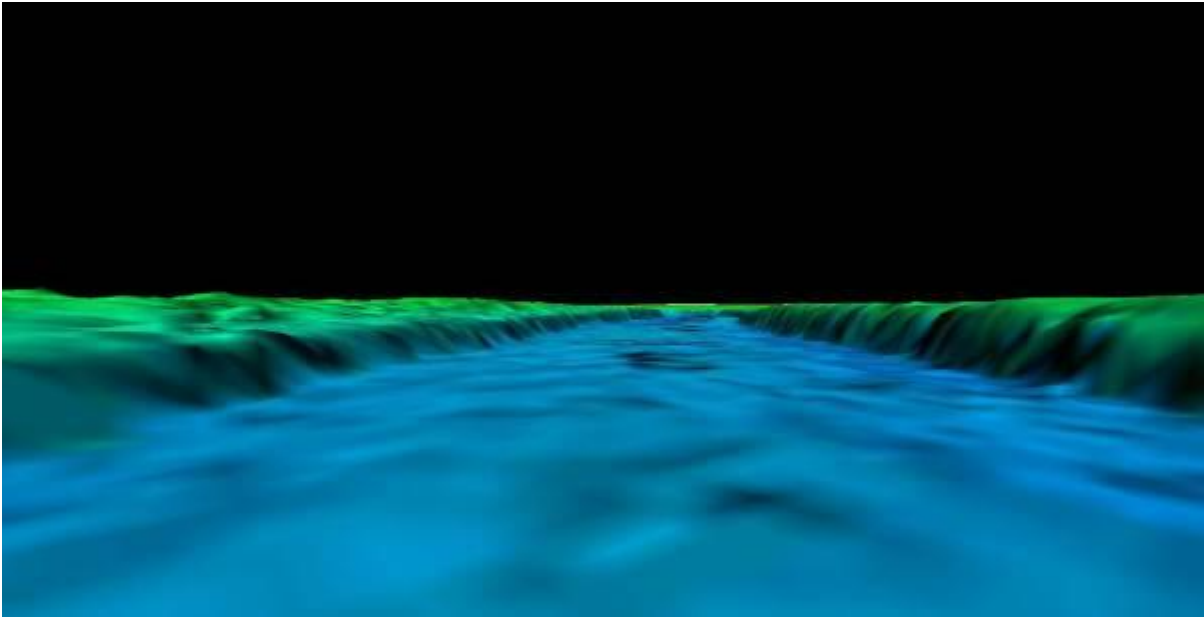
River Channel Cross Sections Images at 100 Meter Intervals for Extraction Area and Long Section Images



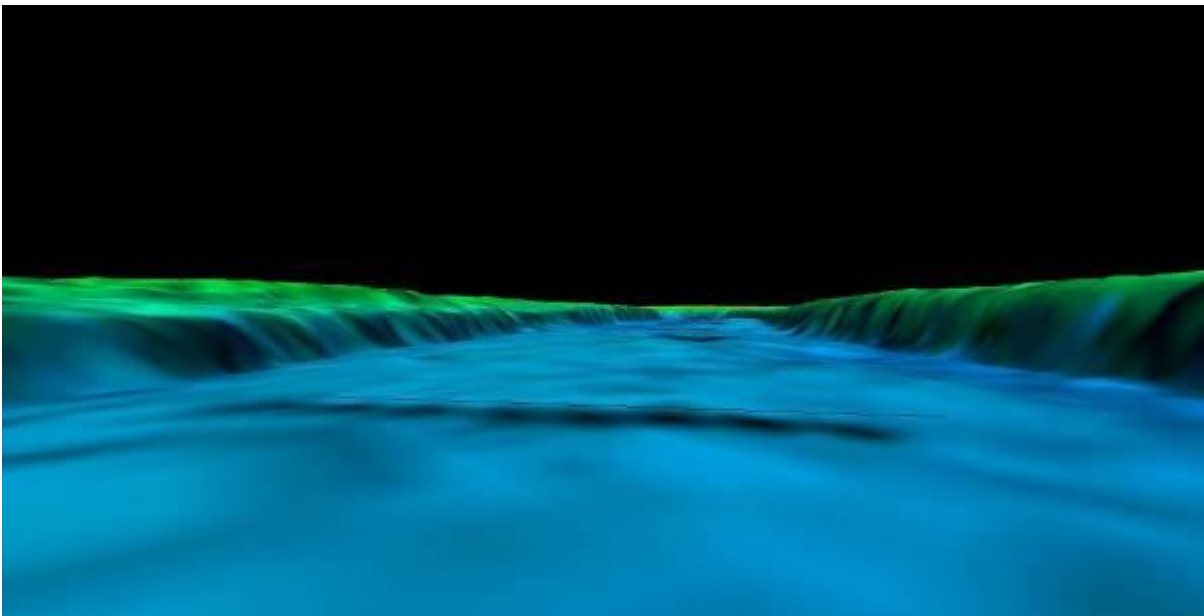
Top View With 100m Sections Marked



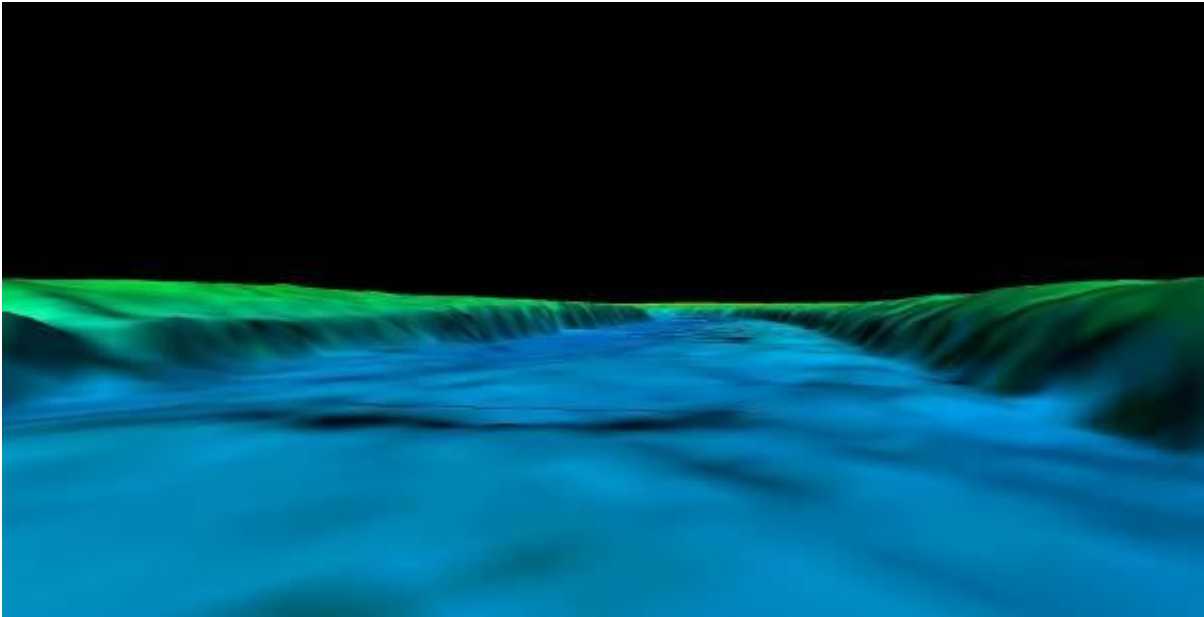
Point 1



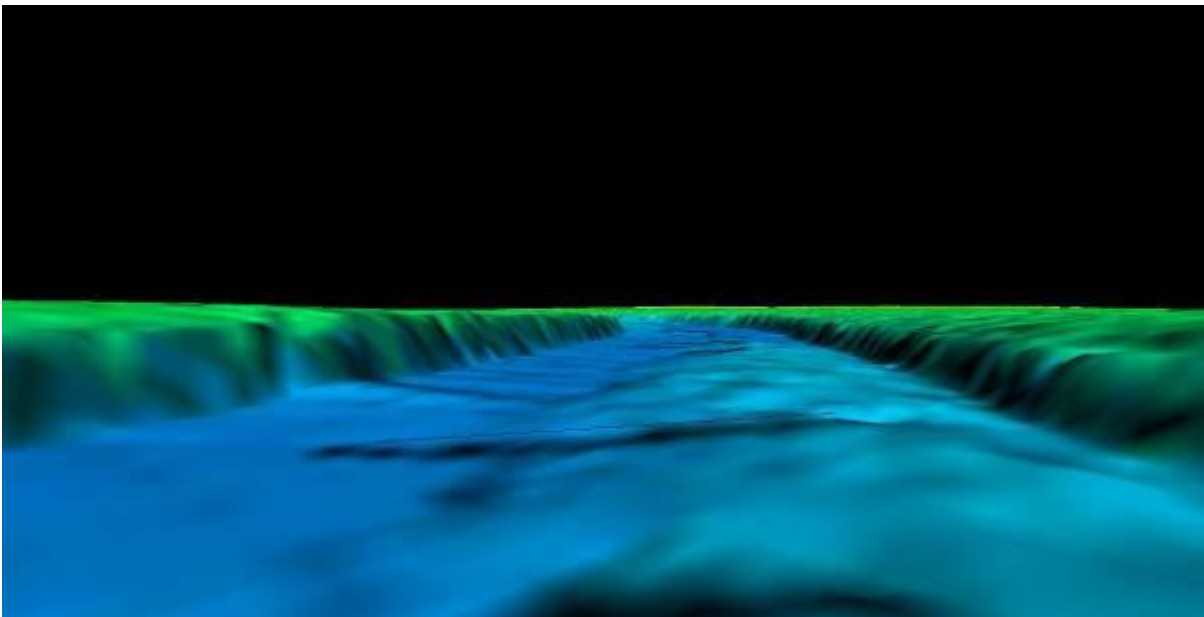
Point 2



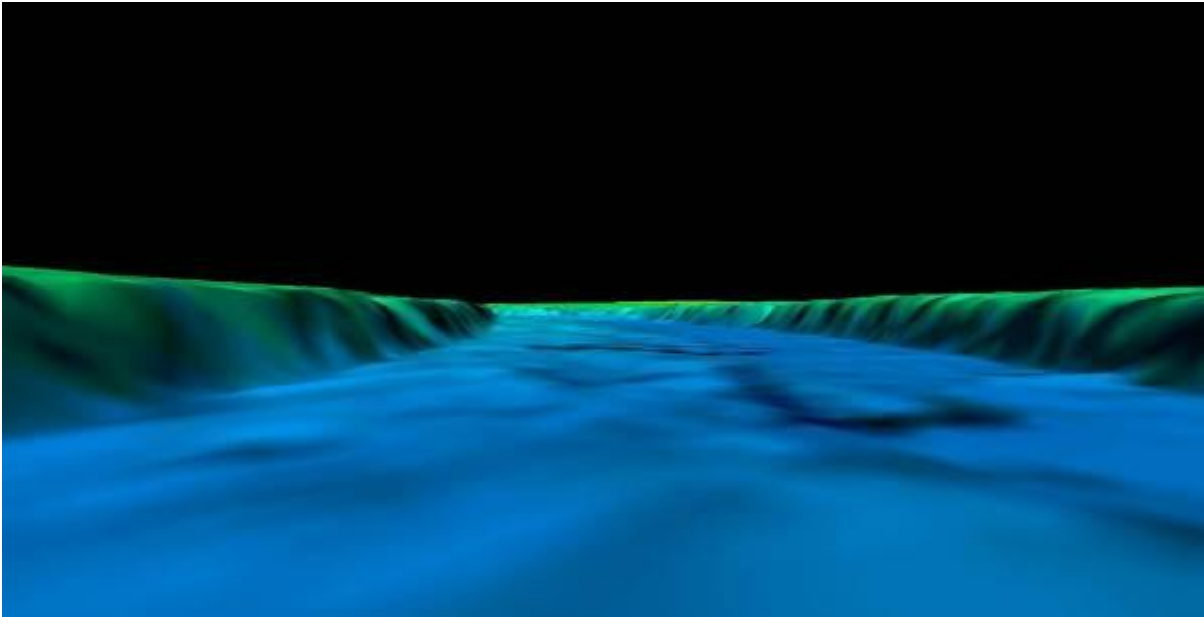
Point 3



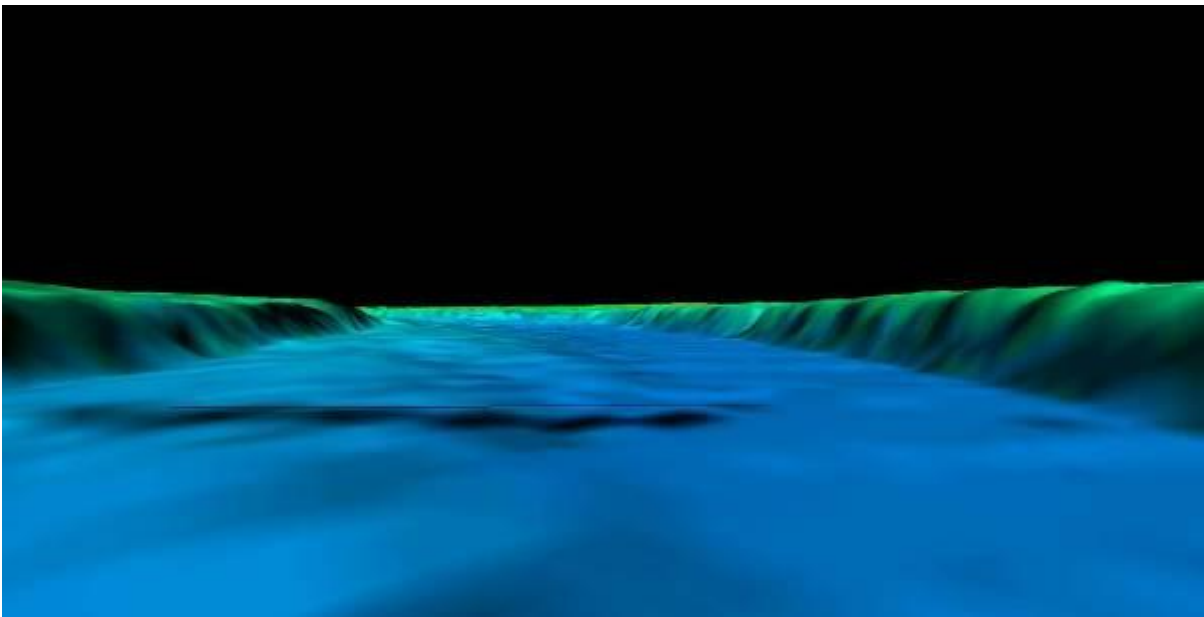
Point 4



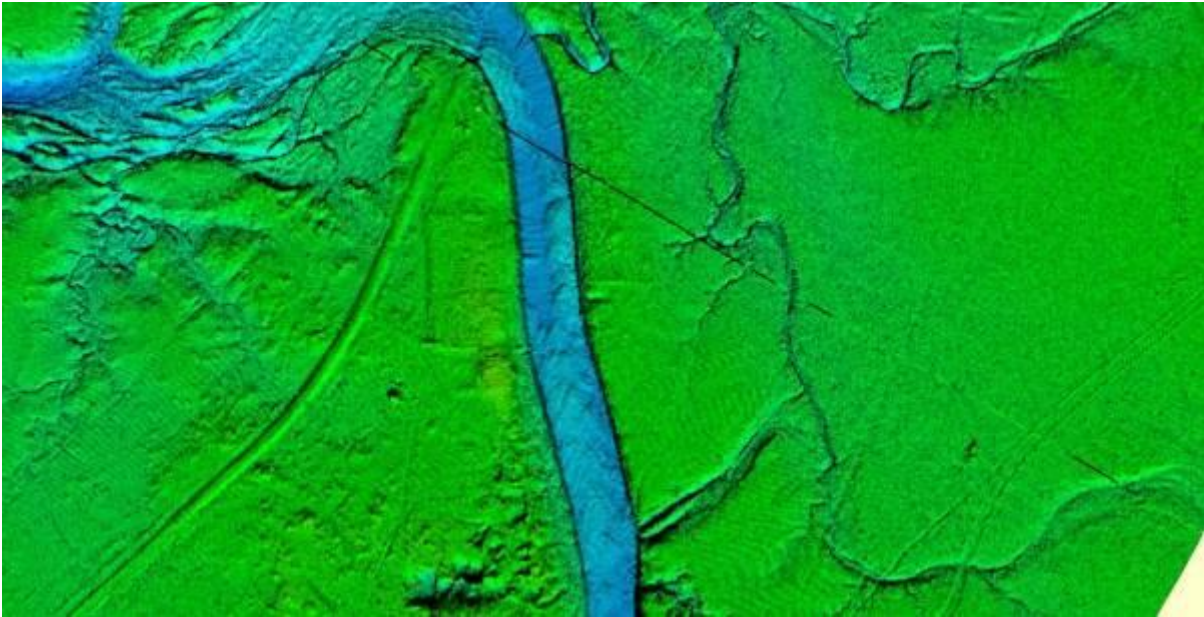
Point 5



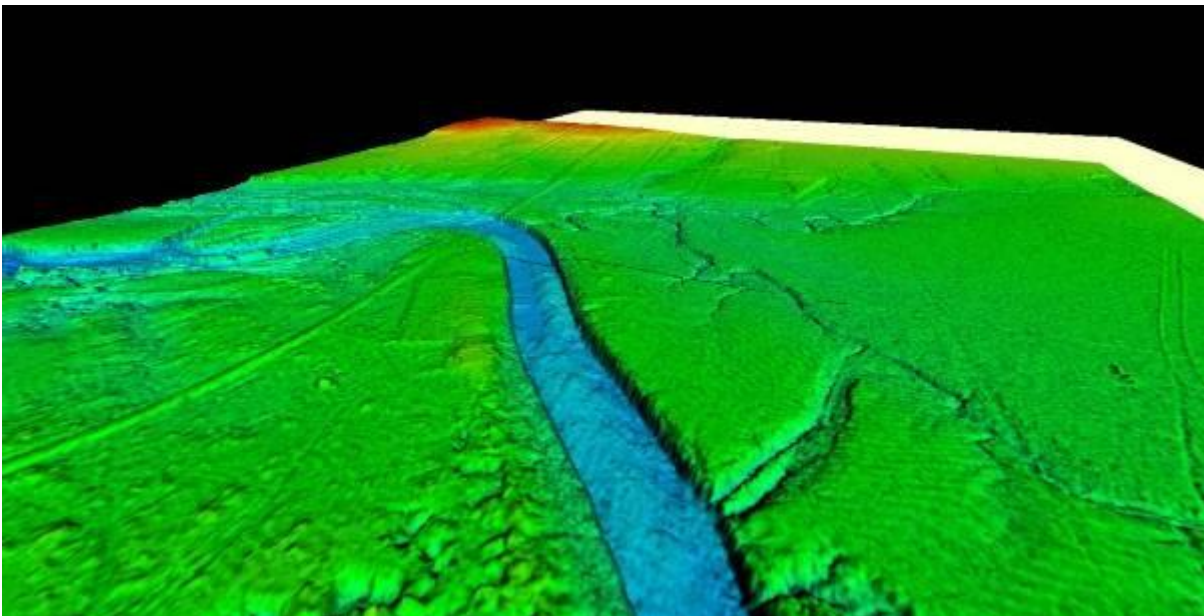
Point 6



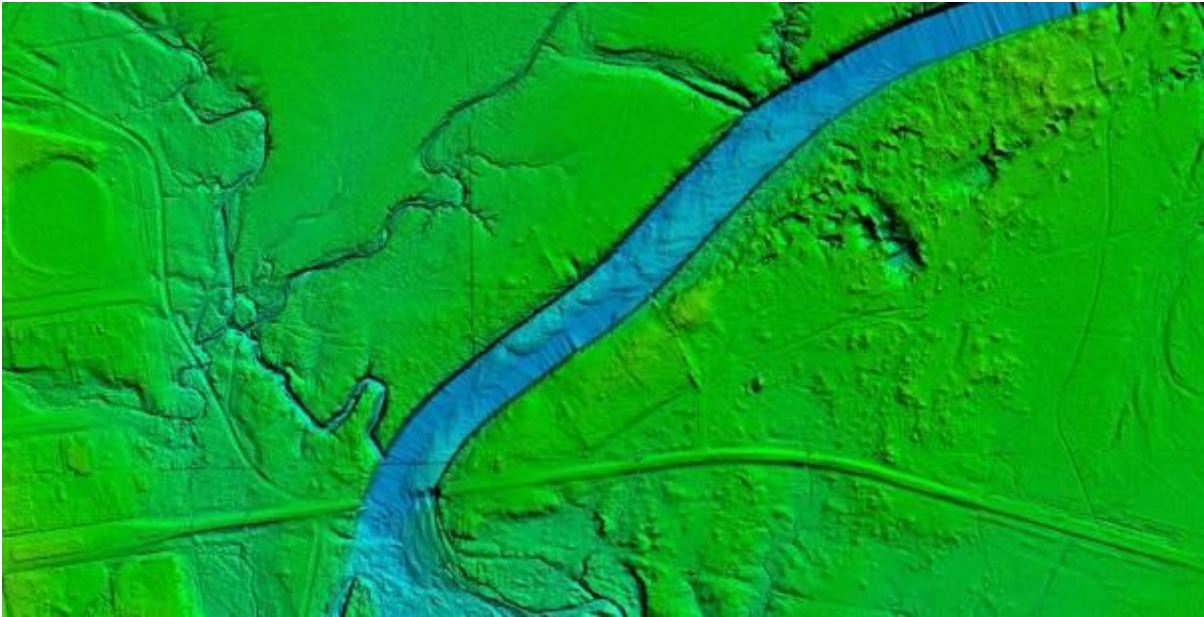
Point 7



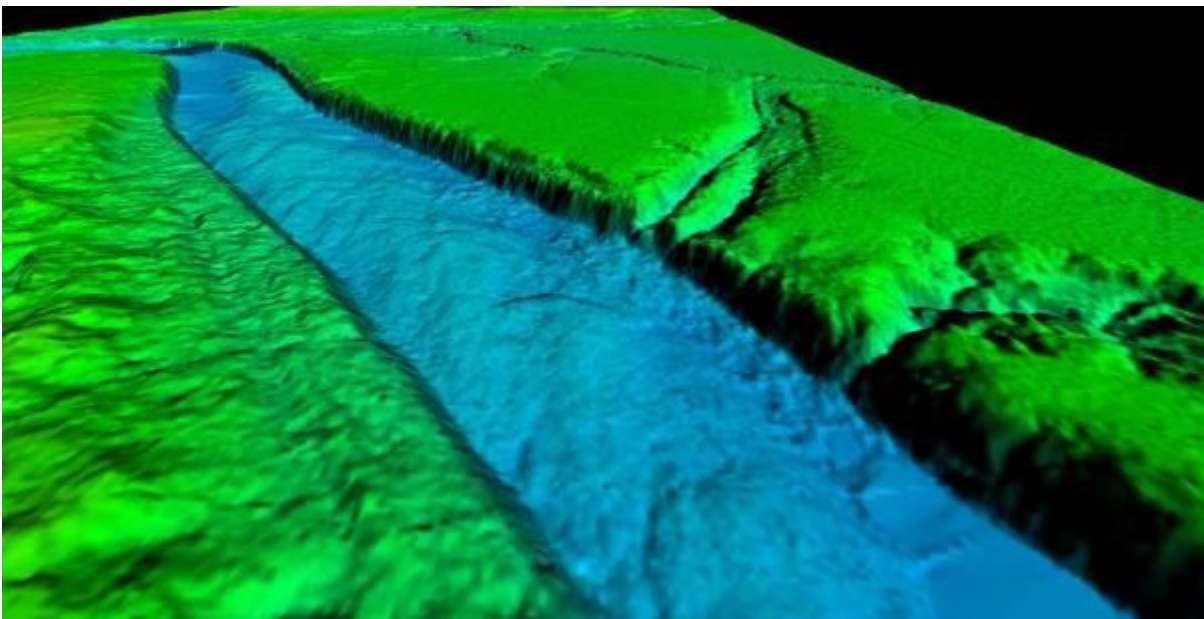
Overview



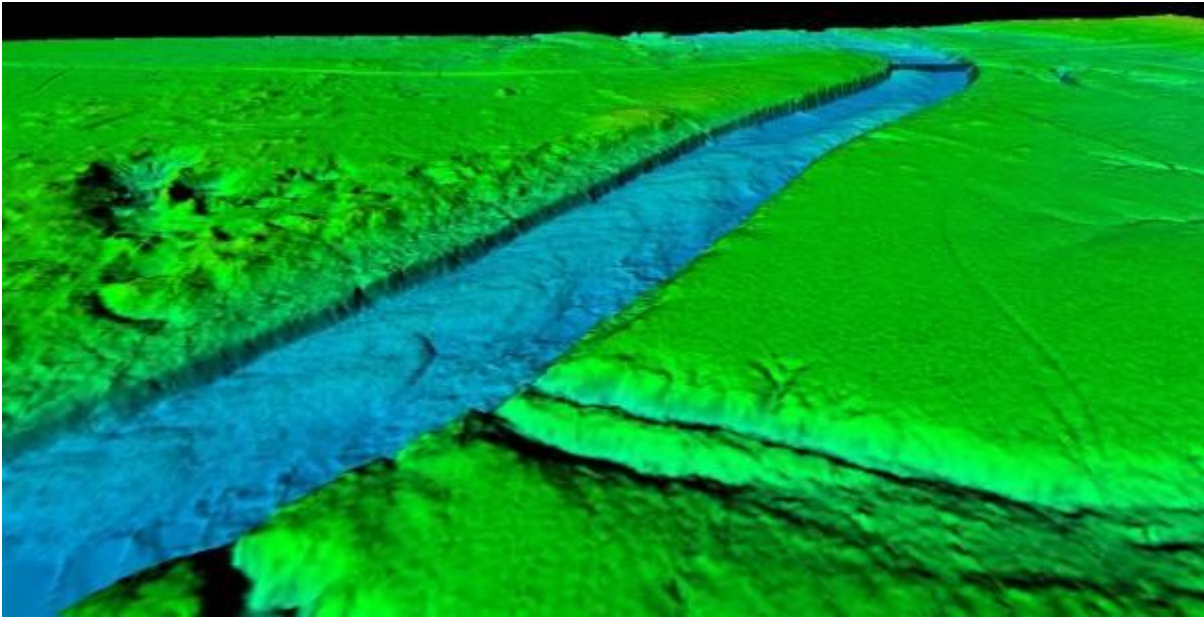
Overview 2



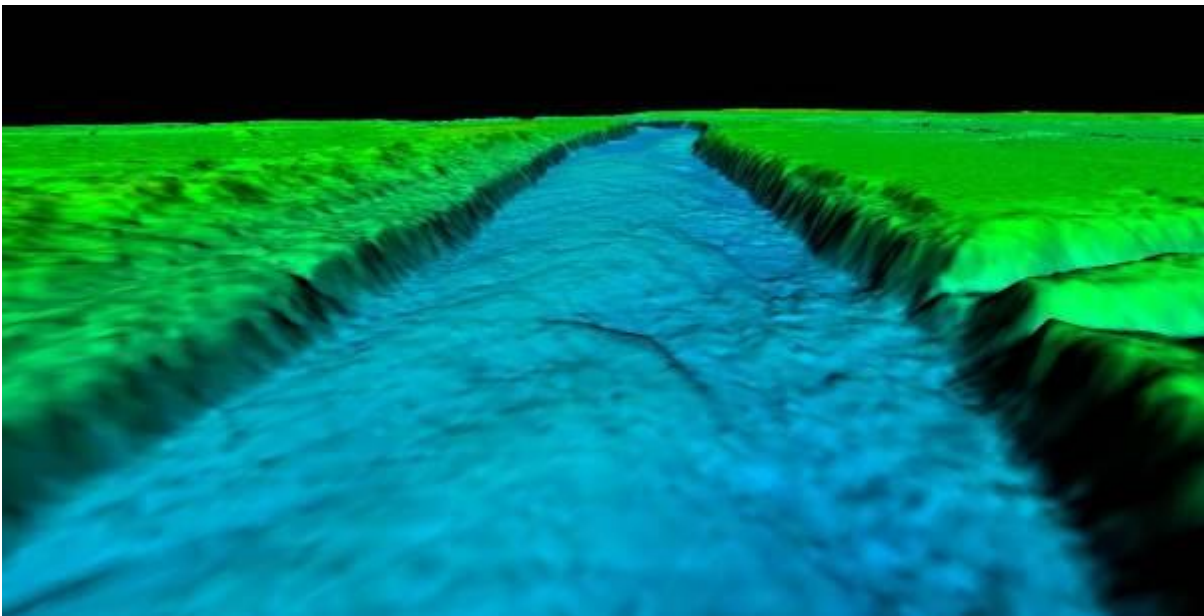
Overview Top



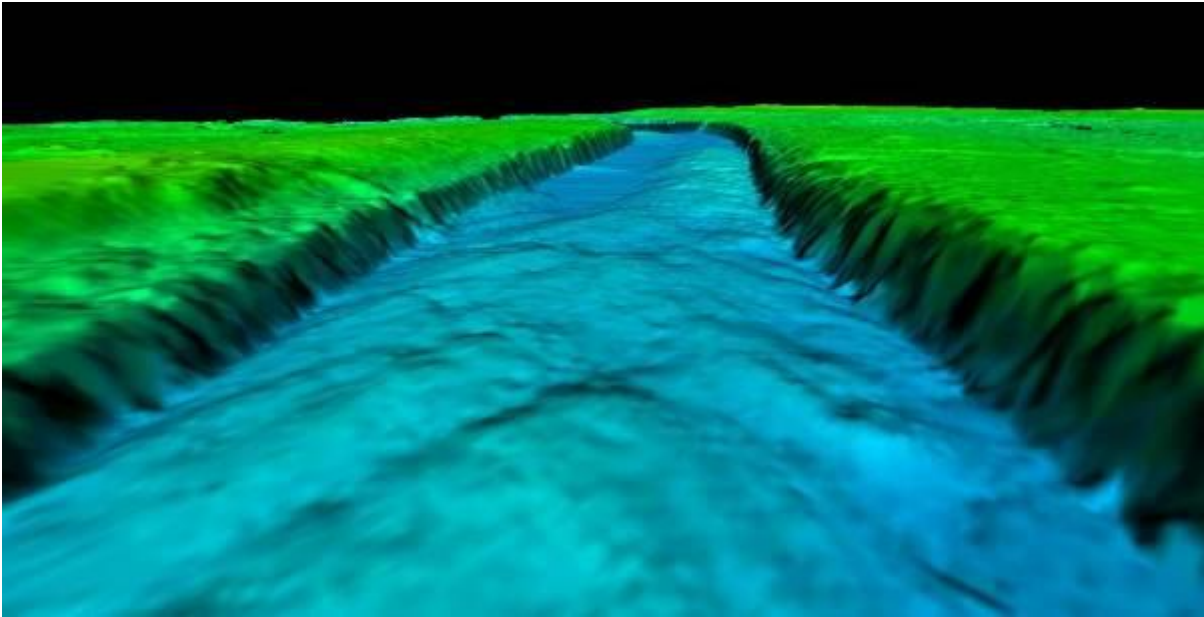
Overview North



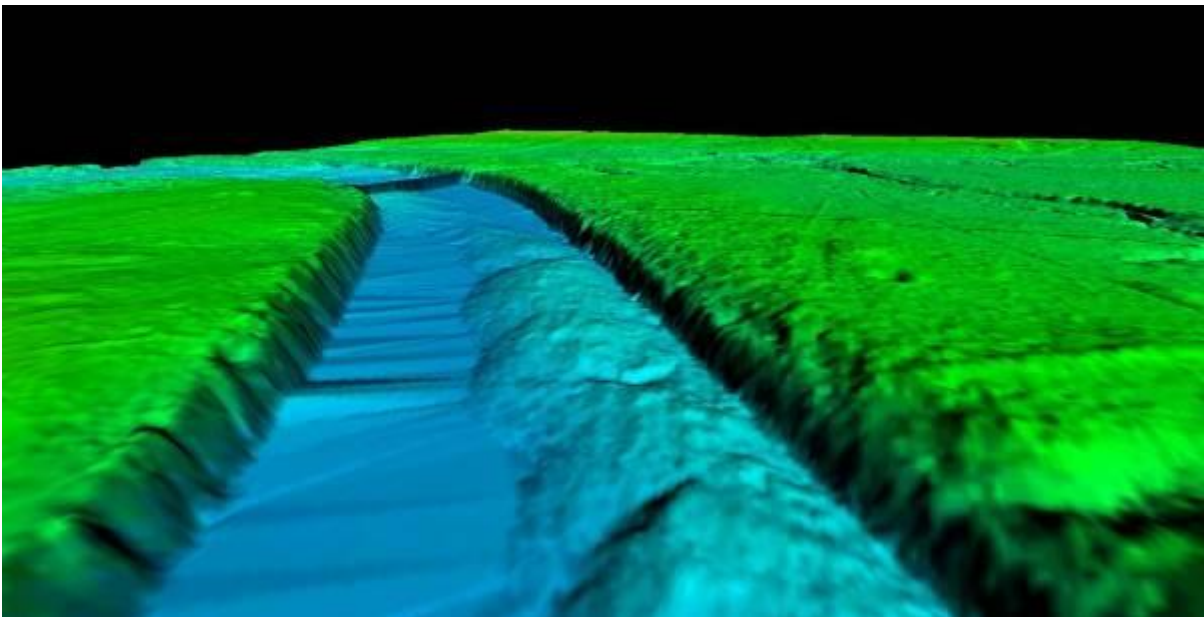
Overview South



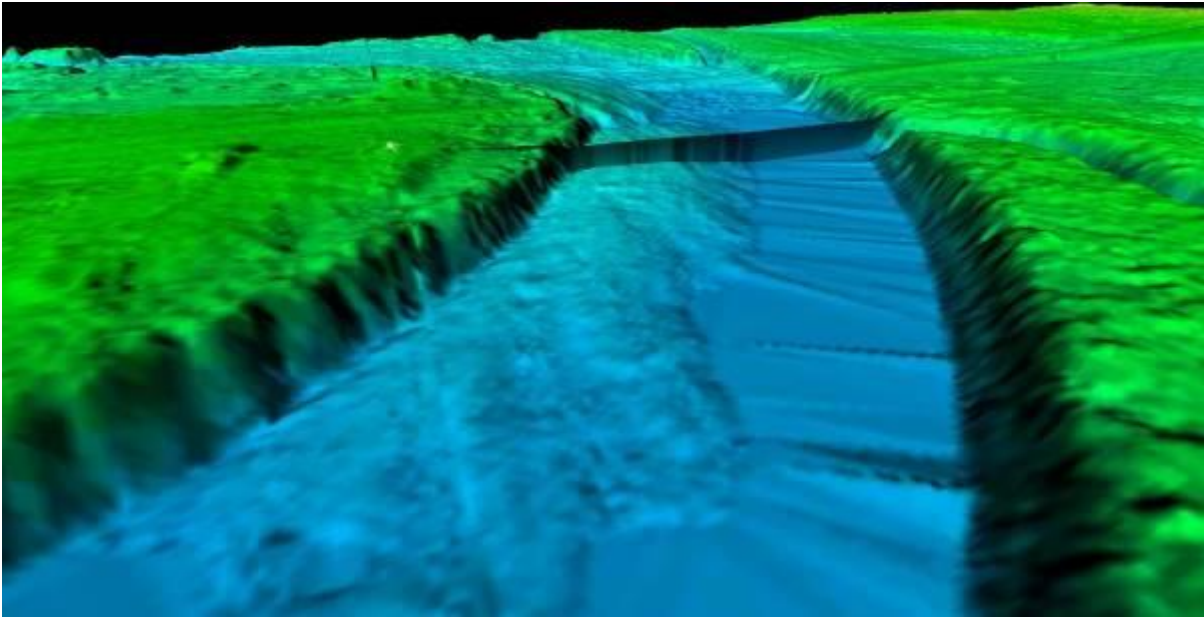
Overview Upstream Section



Overview Upper Middle Section



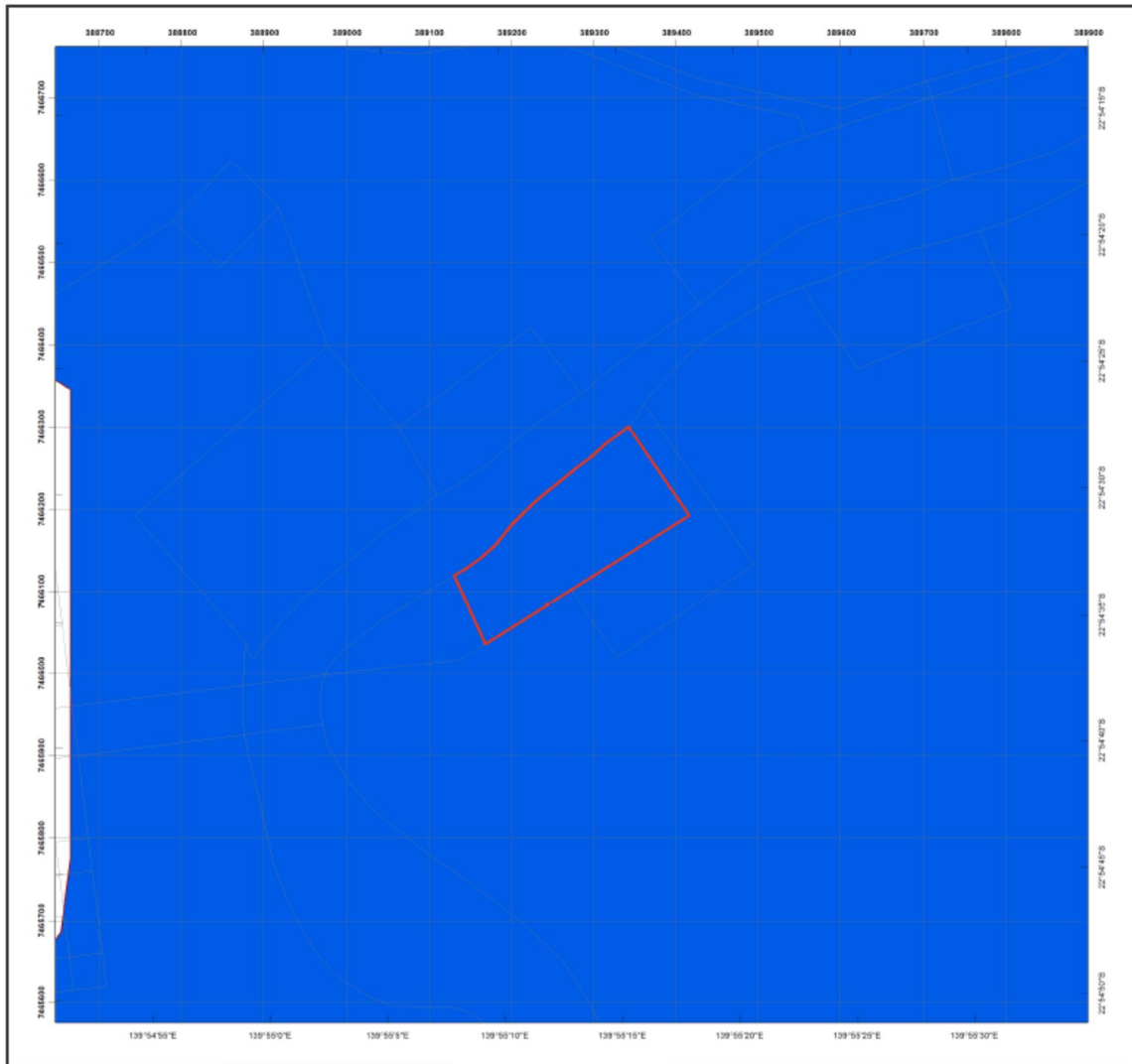
Overview Lower Middle Section



Overview Lower Section

Appendix C

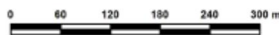
Regulated Vegetation Management Map and Regulated Vegetation Supporting Map



Regulated Vegetation Management Map

Legend

- Lot and Plan
- Category A area (Vegetation offsets/compliance notices/VDecs)
- Category B area (Remnant vegetation)
- Category C area (High-value regrowth vegetation)
- Category R area (Reef regrowth watercourse vegetation)
- Category X area (Exempt clearing work on Freehold, Indigenous and Leasehold land)
- Water
- Area not categorised
- Cadastral line
- Property boundaries shown are provided as a locational aid only



This product is projected into:
GDA 1994 MGA Zone 54

Disclaimer:
While every care is taken to ensure the accuracy of this product, the Department of Natural Resources and Mines makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you might incur as a result of the product being inaccurate or incomplete in any way and for any reason.

Additional information required for the assessment of vegetation values is provided in the accompanying "Vegetation Management Supporting map". For further information go to the web site: www.dnrm.qld.gov.au or contact the Department of Natural Resources and Mines.

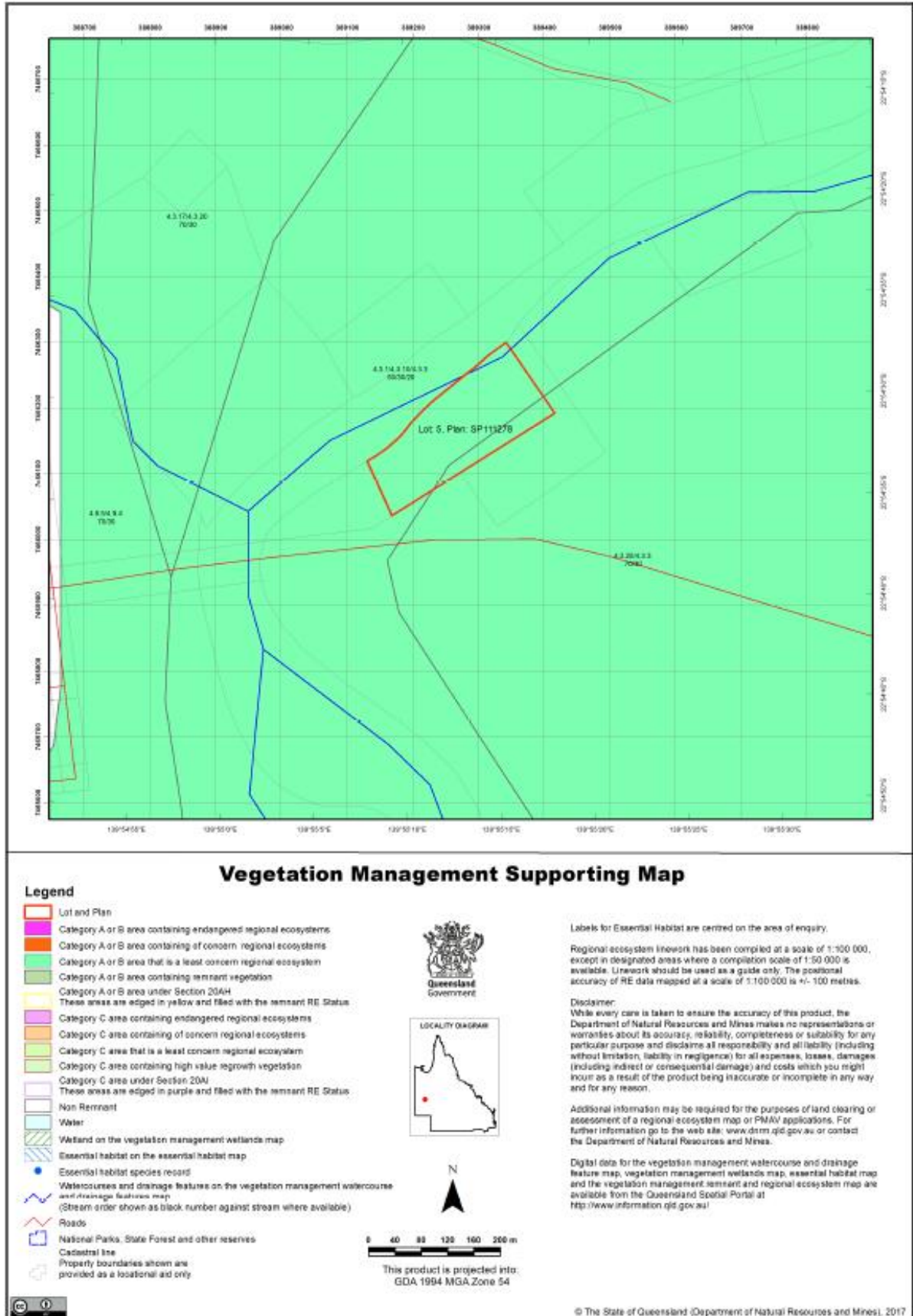
Digital data for the regulated vegetation management map is available from the Queensland Spatial Portal at <http://www.information.qld.gov.au/>

This map is updated on a monthly basis to ensure new PMAVs are included as they are approved.



© The State of Queensland (Department of Natural Resources and Mines), 2017

5.2 Vegetation management supporting map



Vegetation Management Act 1999 - Extract from the essential habitat database

Essential habitat is required for assessment under the:

- State Development Assessment Provisions - Module 8: Native vegetation clearing which sets out the matters of interest to the state for development assessment under the Sustainable Planning Act 2009; and
- Self-assessable vegetation clearing codes made under the Vegetation Management Act 1999

Essential habitat for one or more of the following species is found on and within 1.1 km of the identified subject lot/s or on and within 2.2 km of an identified coordinate on the accompanying essential habitat map.

This report identifies essential habitat in Category A, B and Category C areas.

The numeric labels on the essential habitat map can be cross referenced with the database below to determine which essential habitat factors might exist for a particular species.

Essential habitat is compiled from a combination of species habitat models and buffered species records.

The Department of Natural Resources and Mines website (<http://www.dnrm.qld.gov.au>) has more information on how the layer is applied under the State Development Assessment Provisions - Module 8: Native vegetation clearing and the Vegetation Management Act 1999.

Regional ecosystem is a mandatory essential habitat factor, unless otherwise stated.

Essential habitat, for protected wildlife, means a category A area, a category B area or category C area shown on the regulated vegetation management map-

- 1) (a) that has at least 3 essential habitat factors for the protected wildlife that must include any essential habitat factors that are stated as mandatory for the protected wildlife in the essential habitat database; or
- 2) (b) in which the protected wildlife, at any stage of its life cycle, is located.

Essential habitat identifies endangered or vulnerable native wildlife prescribed under the Nature Conservation Act 1994.

Essential habitat In Category A and B (Remnant vegetation species record) areas:1100m Species Information

(no results)

Essential habitat In Category A and B (Remnant vegetation species record) areas:1100m Regional Ecosystems Information

(no results)

Essential habitat In Category A and B (Remnant vegetation) areas:1100m Species Information

(no results)

Essential habitat In Category A and B (Remnant vegetation) areas:1100m Regional Ecosystems Information

(no results)

Essential habitat In Category C (High value regrowth vegetation) areas:1100m Species Information

(no results)

Essential habitat In Category C (High value regrowth vegetation) areas:1100m Regional Ecosystems Information

(no results)

Appendix D

Environmental Incident & Public Complaints Recording Form & Register

Environmental Incident & Public Complaints Recording Form

Environmental Incident – Initial Response	Public Complaint
Date: _____	Date: _____
Reported by: _____	Reported by: _____
Location: _____	Location: _____
Description of Incident: _____	Description of Incident: _____
Remedial Action (short term): _____	Response (short term): _____
Response (medium/long term): _____	Response (medium/long term): _____
Investigative Response	Investigative Response
Date: _____	Date: _____
Reported by: _____	Reported by: _____
Location: _____	Location: _____
Description of Incident: _____	Description of Incident: _____
Remedial Action (medium/long term): _____	Remedial Action (medium/long term): _____
Incident reported to:	Incident reported to:
EPA Yes <input type="checkbox"/> No <input type="checkbox"/>	EPA Yes <input type="checkbox"/> No <input type="checkbox"/>
Council Yes <input type="checkbox"/> No <input type="checkbox"/>	Council Yes <input type="checkbox"/> No <input type="checkbox"/>
Contractor Yes <input type="checkbox"/> No <input type="checkbox"/>	Contractor Yes <input type="checkbox"/> No <input type="checkbox"/>
Other Yes <input type="checkbox"/> No <input type="checkbox"/>	Other Yes <input type="checkbox"/> No <input type="checkbox"/>

Incident/Complaints Register

Date	Complainant Information (Name, Address)	Nature of Complaint/Incident	Action Taken

Appendix E

Cultural Heritage Clearance Documents

Schedules

SCHEDULE 15 - ABORIGINAL CULTURAL HERITAGE IDENTIFICATION REPORT

This Schedule contains a template setting out the information and general format of a report to be prepared when a site inspection or site visit occurs (refer to paragraph 3 of Schedule 13).

Council Job Ref:

ABORIGINAL CULTURAL HERITAGE IDENTIFICATION REPORT (Pitta Pitta People)²⁴

To be completed by the Aboriginal Party or Aboriginal Party's Representative after a Site Inspection and then handed to the Local Government Representative on the same day that the inspection is completed.

Work Project Burke River / 4 mile sand extraction (3mile?)

Location and Date(s) of Site Inspection / Monitoring 22/09/2015. Burke River Date(s) 22 / 09 / 2015

Aboriginal Party Representative Margaret Dunne and Noel Jacks.

Council Representative In Attendance Nathan Walker

1. I, Margaret Dunne Noel Jacks (insert name) on behalf of the Pitta Pitta People provide Burke Shire Council (insert name/s) Council(s) with an unconditional clearance to proceed with the Work Project above (more fully detailed in the related Proposed Works Notice):

Yes No (tick one)

If the 'Yes' box is ticked - sign here Margaret Dunne Noel Jacks (on behalf of the Pitta Pitta People) Date 22/09/2015

If the 'No' box is ticked - complete Below Paragraphs

2. Having conducted a Site Inspection I have identified in the proposed works area, Aboriginal cultural heritage in the nature of (specify type of cultural heritage find e.g. artefact, painting, etching, burial site, sacred site and brief reasons for its significance):

Artefact

3. The Aboriginal cultural heritage is located on or near (specify general location or if possible GPS coordinates)

5. The Pitta Pitta People make the following recommendation(s): (tick relevant recommendation/s)

²⁴ Through the Consultative Committee, the Parties may continue to refine this Notice template.

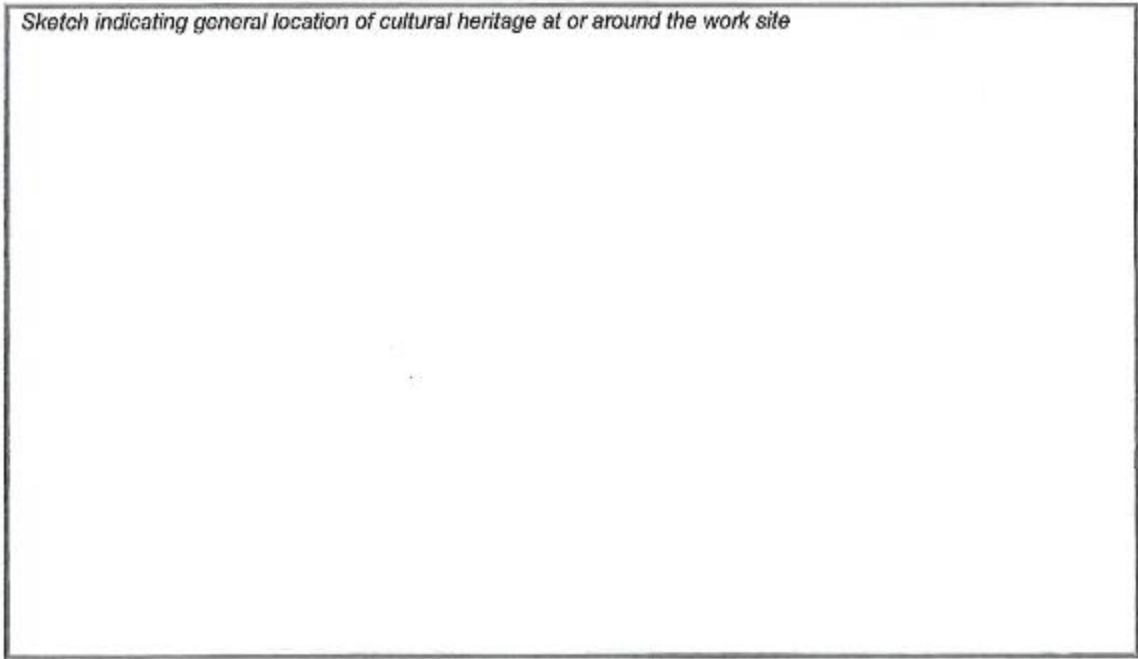
Schedules

- Monitors be employed during work in the location of identified Aboriginal cultural heritage.
- The work project avoid specified areas.
- A fence be erected to prevent access on or around an area of cultural significance.
- An expert be engaged to evaluate and document the general location of a cultural heritage find.
- The Pitta Pitta People relocate a cultural heritage find made.
- Other action is recommended (specify):

Margal Anne ...
Signed on behalf of the Pitta Pitta People Date

MLG (GBA on behalf of Badu Shire Council) 22/09/2015
Received on behalf of Local Government Date

Sketch indicating general location of cultural heritage at or around the work site



Appendix F

Spill Response Procedure

Hydrocarbon Spill Response Procedure

1. Intent

The intent of this document is to specify the standard work procedure to be undertaken in the event of a hydrocarbon or chemical spill which may pose a risk to personnel or cause environmental harm.

2. Spill Response Procedure

The general spill response procedure in order of priority is;

ASSESS > SECURE > CONTROL > ABSORB > DISPOSE > REPORT

Exact order may change depending on the nature and extent of the spill.

2.1 Assess the Spill

The first step to be taken in the event of a hydrocarbon or chemical spill is to ASSESS the situation to determine the;

- Type of substance
- Location of the spill,
- Source of the spill and whether it can be isolated,
- Ability of personnel to control the spill,
- Safety and PPE requirements (refer to MSDS)

2.2 Secure the Spill

The spill should be SECURED. Personnel working in or near the area shall be notified of the spill occurrence, either over the radio or through some other appropriate form of communication. The area should be safely secured by means of posting a guard, erecting barricading or signage around the spill area to prevent personnel from accessing the area unnecessarily.

2.3 Control the Spill

The source of the spill should be isolated to prevent the spill from becoming larger. The spill should be contained by appropriate means which may include constructing an earthen bund or by surrounding the spill with the appropriate absorbent booms.

2.4 Absorb the Spill

Spills should be cleaned up by means of absorption, converting a liquid spill into a solid enabling clean up. General purpose and Hazardous substance spill kits are available at appropriate locations. A range of absorbent materials are supplied in the spill kits including absorbent booms, absorbent pads, granular absorbents, disposable bags and ties. Spill response training is available to educate personnel on the appropriate material to use for various spill scenarios.

2.5 Disposal of the Spill Material

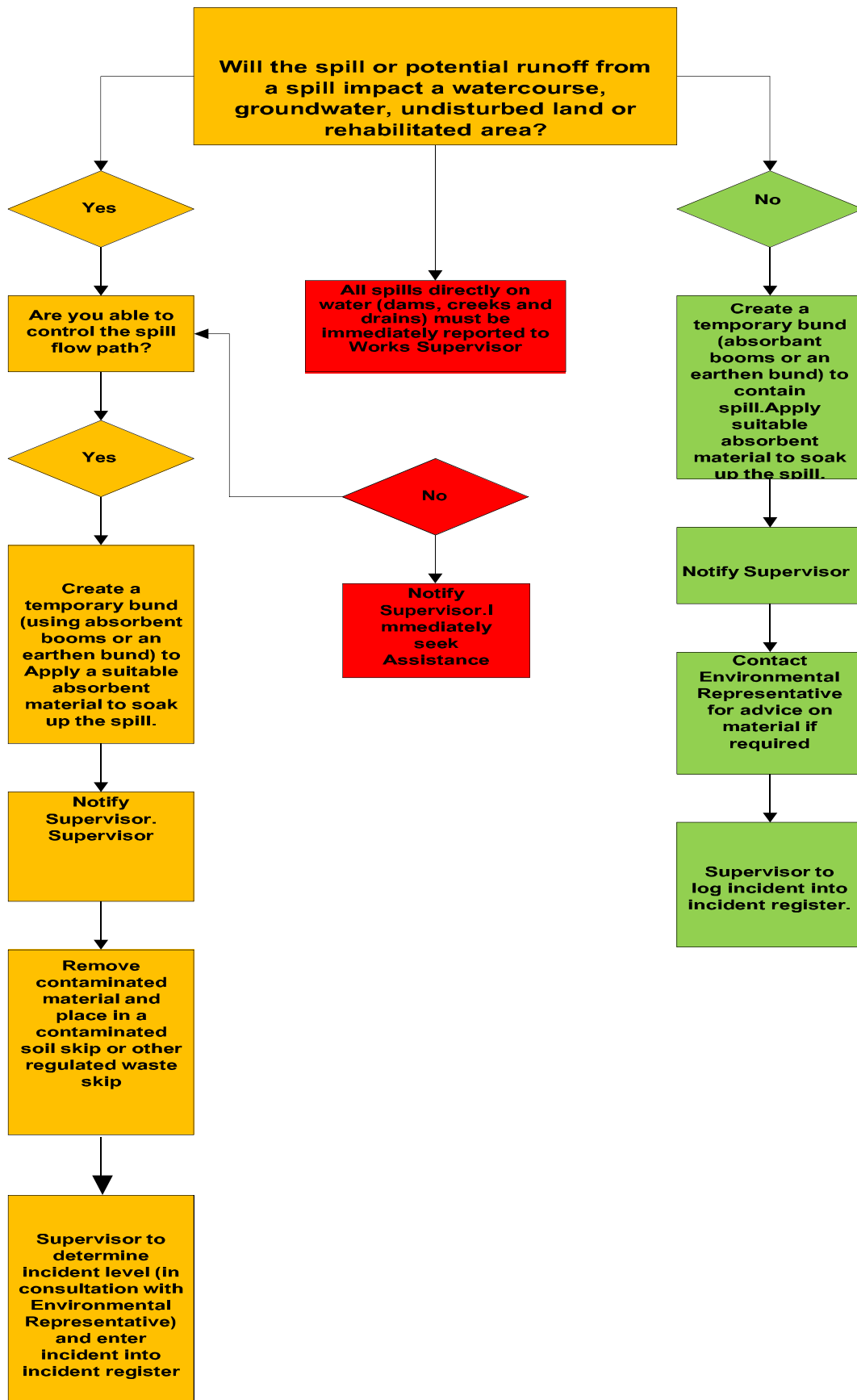
The method of disposal is dependent upon the nature and extent of the spill. Advice is to be sought from the local Waste Management Officer to determine the appropriate disposal method for a particular spill.

Used absorbent material including granular absorbent, boom and pads shall be put into disposable bags, tied and placed in regulated waste bins. Small quantities of contaminated soils may be disposed of in regulated waste bins or contaminated soil bins if available.

2.6 Report the Spill

All spills exceeding the reportable volume (20L) of hydrocarbon spillage must be reported to the site Supervisor immediately. This enables BSC to review the circumstances of the spill and implement or modify controls to prevent repetition of the event.

3. Spill Response Flow Chart, Hydrocarbon Spill



Appendix G

Additional Site Photos





PART C
QUARRY MATERIAL ALLOCATION
NOTICE

Author: C Dippel
Phone: 4447 9138
File: 083/0018197

31 October 2017

PE & GC Harris Road Contractors
Lot 9 Pituir Street
BOULIA QLD 4829

Dear Toby and Gem,

Please find enclosed an allocation notice and decision notice, given in accordance with section 230 (3) of the *Water Act 2000* (the Water Act), in respect of the decision on the above application.

Activities associated with the physical removal of the quarry material are subject to the conditions of quarry material allocation QMA10000070.

You must apply for a development permit through the Integrated Development Assessment System (IDAS) under the *Planning Act 2016* to authorise the physical removal of material under this allocation notice. Applications can be made through the State Assessment and Referral Agency (SARA). Please contact the Department of Infrastructure, Local Government and Planning (DILGP) Townsville office on NQSARA@dilgp.qld.gov.au or 4758 3405 <Cairns Office on CairnsSARA@dilgp.qld.gov.au or 4037 3214>.

The removal of quarry material may also be subject to other legislation and approvals including but not limited to:

- *Environmental Protection Act 1994*
- *Stock Route Management Act 2002*
- *Aboriginal Cultural Heritage Act 2003 (see attached Duty of Care fact sheet)*

Should you have any further enquiries, please do not hesitate to contact Cindy Dippel, A/Natural Resource Officer of the department, on telephone (07) 4447 9138.

Yours sincerely



Jennifer McKee
A/Senior Project Officer
Water Management and Use
Water Services – North Region

445 Flinders Street
PO Box 5318 MC Townsville
Queensland 4810

Telephone: + (07) 4447 9138
Email: RiversNorth@dnrm.qld.gov.au

QUARRY MATERIAL ALLOCATION NOTICE

Water Act 2000



Reference	QMA10000070
Effective From	01/12/2017
Expiry Date	30/11/2021
Holder	PE & GC HARRIS ROAD CONTRACTORS
Location of Allocation	Burke River adjacent to lot 5 on SP111278. Within the bed of the Burke River between AMTD's 54kms to 57kms. Extraction is only allowed to be undertaken within the bed and banks defined by the following parameters: Downstream Limit: Lat: -22° 54' 22.98" Long: 138° 55' 18.78" Upstream Limit: Lat: -22° 54' 35.38" Long: 139° 55' 2.09" Datum: GDA94
Total Quantity of quarry material	20000 cubic metres
Maximum Extraction Rate	5000 cubic metres in any twelve (12) month period, or part thereof, unless otherwise specified in the attached conditions, commencing from the date this Notice takes effect
Conditions	This quarry material allocation notice is subject to the conditions attached.

This quarry material allocation notice is given under the Water Act, on this THIRTY-FIRST day of OCTOBER 2017.

Delegate of the Chief Executive
Department of Natural Resources and Mines

QUARRY MATERIAL ALLOCATION NOTICE

Quarry Material Allocation Notice QMA10000070
Expiry Date 30/11/2021

Other Conditions of Approval

1.
 - 1 The allocation holder must give to the chief executive, within 7 days after the end of each month, a written return in the approved form for all quarry material removed by the holder, in the month.
 - 2 The allocation holder shall keep a record of daily extractions on site at all times. This record shall be made available for inspection upon request of an Authorised Officer of this Department.
 - 3 The nominated removal rate for this notice is: 5000 cubic metres (m3) per year
 - 4 The development must be carried out generally in accordance with the following plans:
 - Riverine Quarry Material Extraction Operations Plan Burke River, version 20 May 2016, prepared by George Bourne and Associates or as amended and approved by the chief executive of the department administering the Water Act 2000.
 - 5 A copy of the conditions pertaining to this Quarry Material Allocation must be available at the extraction area at all times and all personnel must be made aware of the conditions of this notice.
 - 6 The allocation holder must install, maintain and operate an accurate measuring device to record the volume of quarry material removed from the allocation area to the satisfaction of the chief executive of the department, at the permittees expense and for the duration of the allocation. Where no material is removed on a particular day, nil extractions must be recorded for that day.
 - 7 Extraction is only allowed to be undertaken within the bed of the Burke River defined by the following parameters:
 - Downstream extraction bound – 110 metres upstream of the Diamantina Developmental Road Bridge adjacent to Lot 5 on Plan SP111278 defined by:
AMTD 54.00km (Lat: 22°54'22.98"S, Long: 139°55'18.78"E)
 - Upstream extraction Bound – adjacent to Lot 5 on Plan SP111278 SP158998 defined by: AMTD 57.00km (Lat: 22°54'35.38"S, Long: 139°55'02.09"E)
 - 8 Removal of material and associated operations must not:
 - Cause erosion or damage to the bed or banks.
 - Interfere with consolidated material comprising the bed and banks of the watercourse, except for the construction and maintenance of access tracks authorised by the chief executive of the department administering the Water Act 2000.
 - Occur below the water level prevailing at the time of extraction.
 - Change the existing flow of the watercourse, including the lowering of any geomorphic features that create a natural storage.
 - Cause any batters to be steeper than 1 vertical on 4 horizontal.
 - Cause an uneven longitudinal grade surface area within the bed of the watercourse.
 - 9 Removal of material and associated activities are prohibited within:
 - 10 metres of the stem or trunk of any native vegetation unless otherwise approved or exempt under the Vegetation Management Act 1994.
 - 10 metres of the toe of the banks.
 - 10 metres of any vegetated bar or instream island.
 - 10 metres of any built infrastructure within the watercourse, including but not limited to any pump sites, road and rail crossings.
 - 10 All vegetation, debris or other waste material generated by the removal of materials and associated operations must be removed from the watercourse and lawfully disposed of.
 - 11 Excavated material must not be stockpiled within the watercourse between the 1st of November and the 1st of April except where approved by the chief executive of the department administering the Water Act 2000.
 - 12 Reject riverine material shall be respread over the disturbed bed of the watercourse within the permit area such that it smoothly transitions to the adjacent natural bed and banks.

13 Access to the removal sites via the banks of the watercourse are to be via existing tracks, or at a location approved by the chief executive of the Department administering the Water Act 2000.

14 Access to removal sites in the bed of the watercourse are to be constructed and maintained to a standard that achieves the following criteria:

- Access tracks are located where they will not be susceptible to erosion.
- Any exposed surface must be protected to prevent erosion.
- The finished level of the track must not interfere with any low flow through the watercourse.

15 Access tracks and other areas disturbed by the operations within the bed and banks of the permit area must be rehabilitated to the satisfaction of the chief executive of the department administering the Water Act 2000 at the cancellation, surrender or expiry of the associated Quarry Material Allocation Notice(s) held by the permit holder.

End of schedule of conditions



Queensland
Government

Department of
Natural Resources and Mines

Decision Notice

Application for an allocation of quarry material - Quarry Material Allocation QMA1000070

This decision notice is given in accordance with section 230(3) of the *Water Act 2000* in respect of the decision for the application of QMA1000070.

Decision

The Department of Natural Resources and Mines delegates officers to exercise the power of the chief executive to make decisions about applications for an allocation of quarry material.

As a delegated officer of this department, on 31 October 2017 I have decided to grant with conditions the application.

Please note that information to support compliance monitoring of this allocation may be requested at any time during the allocation period by an Authorised Officer under the *Water Act 2000*. This information must be supplied to the department within the specified time frame.

Requirement for Development Permit under the *Planning Act 2016*

The attached quarry allocation notice authorises a share of riverine quarry material under the *Water Act 2000*, but does not authorise the physical removal of the quarry material from a watercourse or lake.

You must apply for a Development Permit under the *Planning Act 2016* before commencing removal of the quarry material.

Please note that this Notice does not negate the requirement to obtain any other approvals or to enter into other statutory arrangements, such as those relating to Aboriginal cultural heritage, which may be required. In particular, the *Aboriginal Cultural Heritage Act 2003*, places a duty of care on anyone undertaking an activity to protect Aboriginal Cultural Heritage. Please refer to the attached information sheet for further information on this new piece of legislation.

Jennifer McKee
A/Senior Project Officer
Water Management
Water Services – North Region

The cultural heritage duty of care

The *Aboriginal Cultural Heritage Act 2003* and *Torres Strait Islander Cultural Heritage Act 2003* (the Acts) require anyone who carries out a land-use activity to exercise a duty of care.

Land users must take all reasonable and practicable measures to ensure their activity does not harm Aboriginal or Torres Strait Islander cultural heritage.

The duty of care applies to any activity where Aboriginal or Torres Strait Islander cultural heritage is located. This includes cultural heritage located on freehold land and regardless of whether or not it has been identified or recorded in a database.

Consultation with the Aboriginal or Torres Strait Islander party for an area may be necessary if there is a high risk that the activity may harm Aboriginal or Torres Strait Islander cultural heritage.

The cultural heritage duty of care can be met by acting:

- in compliance with gazetted cultural heritage duty of care guidelines [duty-of-care-guidelines]
- under an approved Cultural Heritage Management Plan (CHMP) developed under Part 7 of the Acts
- under a native title agreement or another agreement with an Aboriginal or Torres Strait Islander party that addresses cultural heritage
- in compliance with native title protection conditions (for low-impact mineral exploration)—but only if the conditions address cultural heritage.

An activity is taken to have complied with the cultural heritage duty of care if the activity is necessary because of an emergency such as a natural disaster.

Fines of up to \$117 800 for an individual and \$1 178 000 for a corporation apply for causing unlawful harm to Aboriginal and Torres Strait

Islander cultural heritage or for breaching the duty of care.

Duty of care guidelines

Guidelines have been developed to assist land users in assessing reasonable and practicable measures for meeting the cultural heritage duty of care.

Land users should consult the duty of care guidelines before undertaking a land-use activity.

The guidelines recognise that:

- some activities are unlikely to harm Aboriginal or Torres Strait Islander cultural heritage.
- the nature and extent of past land uses in an area may mean that any further activity in the area is unlikely to harm Aboriginal or Torres Strait Islander cultural heritage.

However, land users should exercise greater caution before proceeding with an activity in circumstances where the nature and extent of the past land use of an area is not inconsistent with the continued presence of Aboriginal or Torres Strait Islander cultural heritage.

The cultural heritage duty of care guidelines can be viewed at www.datsip.qld.gov.au/ch

Further information

For further information on the cultural heritage duty of care, contact the Cultural Heritage Unit on telephone 1300 378 401 or email cultural.heritage@datsip.qld.gov.au

Visit the DATSIP website
www.datsip.qld.gov.au/ch

PART D
VEGETATION CLEARING
RELEVANT PURPOSE
UNDER SECTION 22a OF THE VEGETATION
MANAGEMENT ACT 1999



14 September 2017

William Green
George Bourne and Associates Consulting Engineers
PO Box 169
BARCALDINE QLD 4725

Department of
Natural Resources and Mines

Dear Mr Green

RE: Proposal to undertake vegetation clearing for the relevant purpose of extractive industry on a section of road reserve (segment parcel reference 63/28) and watercourse (segment parcel reference 63/120), Boulia Shire Council

I refer to your request received by the Department of Natural Resources and Mines (the department) on 6 September 2017 to determine if proposed vegetation clearing on a section of road reserve (segment parcel reference 63/28) and watercourse (segment parcel reference 63/120) is for a relevant purpose under section 22A of the *Vegetation Management Act 1999* (VMA).

The department has considered the application and is satisfied that the proposed clearing for the purpose of extractive industry meets the relevant purpose requirements of section 22A of the VMA. Please note that this determination is not a development approval to carry out vegetation clearing.

If your property is a lease or tenure other than freehold, you should seek advice from the State Land Asset Management (SLAM) group of the department to determine if the proposed clearing purpose can be carried out on your tenure. SLAM can be contacted on (07) 4447 9164.

It is strongly advised that, prior to lodging a development application, you arrange a pre-lodgement meeting through the State Assessment and Referral Agency (SARA) to identify all relevant State legislation, approvals and application requirements. Other legislation, such as those listed in Attachment 1, may be relevant to the proposed vegetation clearing. Should you require any additional information please contact your local SARA office as below:

North Queensland Regional Office
Level 4, Verde Tower, 445 Flinders Street, Townsville
PO Box 1732, Townsville QLD 4810
(07) 4758 3405
e-mail: NQSARA@dilgp.qld.gov.au

On accepting your application, SARA will request relevant technical advice from the department. That advice will be prepared in consideration of the State Development

DNRM Townsville
Verde Tower, Level 9
445 Flinders Street
PO Box 5318
Townsville QLD 4810

Telephone: (07) 4447 9150
Facsimile: (07) 4447 9200
Website: www.dnrm.qld.gov.au
ABN: 59 020 847 551

Assessment Provisions (SDAP) Module 8 - Native vegetation clearing. A copy of SDAP Module 8 is available on the internet at <http://www.dsdip.qld.gov.au/development-applications/sdap.html>. The information you provide to support your application should address these assessment provisions where they relate to the proposal.

Should you have any further enquiries, please do not hesitate to contact Melody Field, Natural Resource Management Officer North Region of the department on telephone (07) 4447 9161.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Lisa Gale', written in a cursive style.

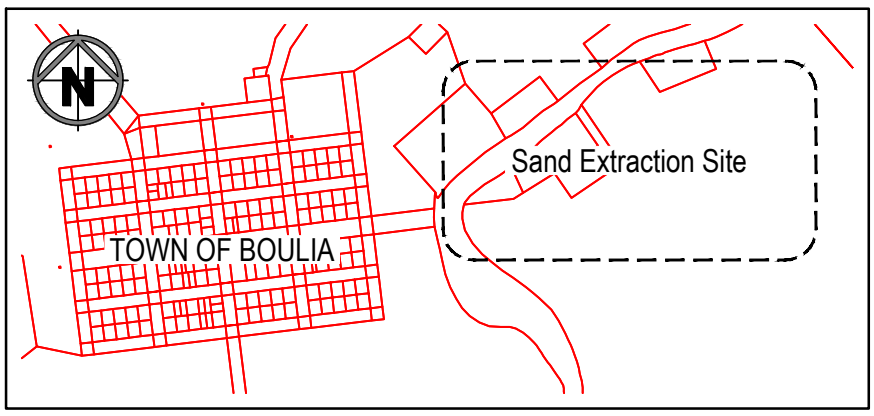
Lisa Gale
**Senior Natural Resource Management Officer
North Region**

Attachment 1 - Legislation and Acts

Act(s)	Agency
<ul style="list-style-type: none"> • <i>Water Act 2000</i> • <i>Soil Conservation Act 1986</i> 	Department of Natural Resources and Mines
<ul style="list-style-type: none"> • <i>Aboriginal Cultural Heritage Act 2003</i> • <i>Torres Strait Islander Cultural Heritage Act 2003</i> 	Department of Aboriginal and Torres Strait Islander Partnership
<ul style="list-style-type: none"> • <i>Nature Conservation Act 1992</i> • <i>Environmental Protection Act 1994</i> • <i>Coastal Protection and Management Act 1995</i> • <i>Queensland Heritage Act 1992</i> 	Department of Environment and Heritage Protection
<ul style="list-style-type: none"> • <i>Fisheries Act 1994</i> 	Department of Agriculture and Fisheries
<ul style="list-style-type: none"> • <i>Environment Protection and Biodiversity Conservation Act 1999</i> 	Australian Government - Department of the Environment
<ul style="list-style-type: none"> • <i>Wet Tropics World Heritage Protection and Management Act 1993</i> • <i>Wet Tropics Management Plan 1998</i> 	Wet Tropics Management Authority
<ul style="list-style-type: none"> • <i>Local Government Act 2009</i> • <i>Regional Planning Interests Act 2014</i> • <i>Sustainable Planning Act 2009</i> 	Department of Infrastructure Local Government and Planning

PART E

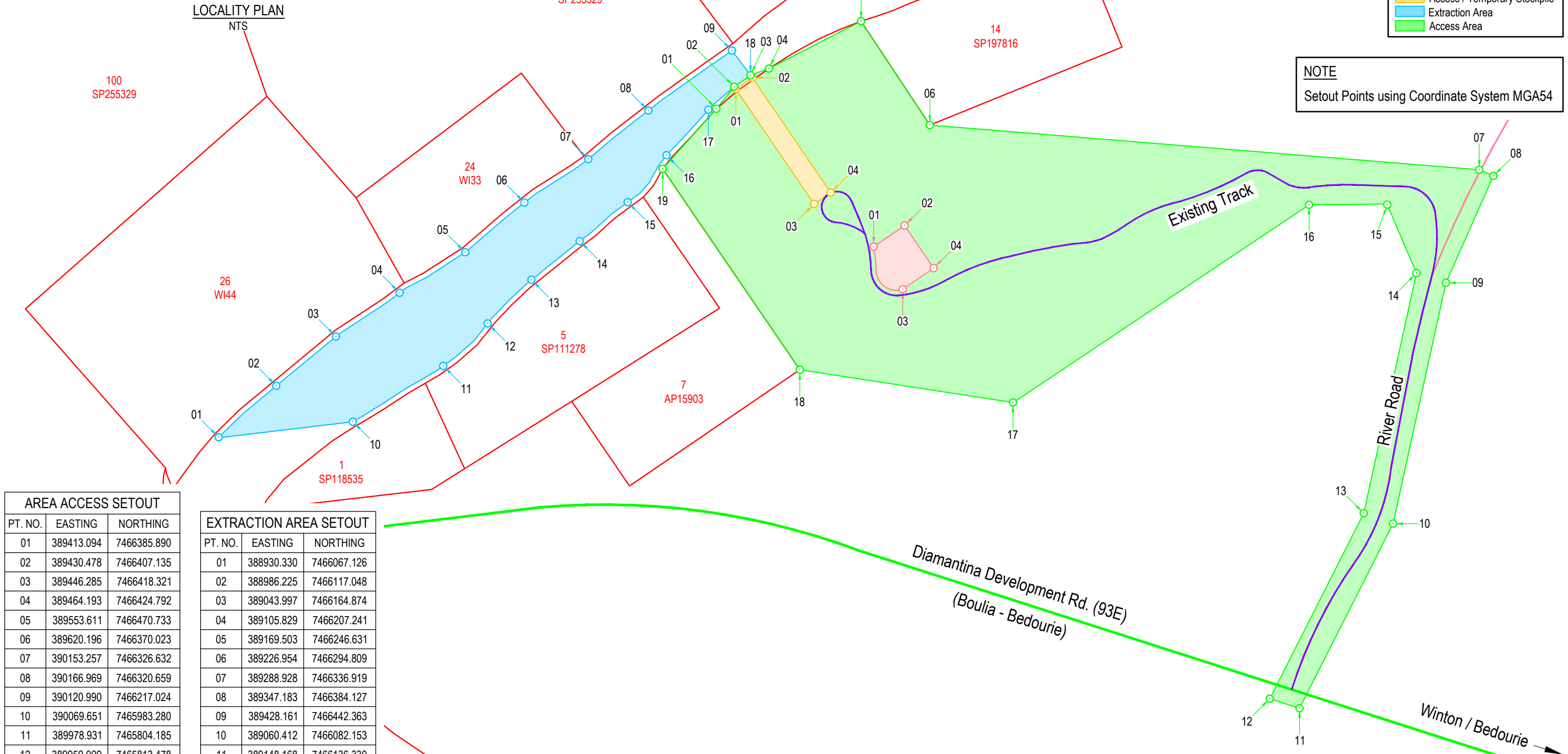
**DRAWING – BURKE RIVER SAND
EXTRACTION (170087-SK1/01)**



- NOTES**
1. Stockpile on River Bank max. width of 19.5m
 2. Extraction Area limit to be 105.0m from Bridge
 3. Extraction Area limit to be 5.0m from all Property Boundaries and River Banks

- LEGEND**
- Access Track
 - Shire Road
 - DTMR Road
 - Bridge
 - Property Boundary
 - Stockpile / Hard Stand
 - Access / Temporary Stockpile
 - Extraction Area
 - Access Area

NOTE
Setout Points using Coordinate System MGA54



AREA ACCESS SETOUT

PT. NO.	EASTING	NORTHING
01	389413.094	7466385.890
02	389430.478	7466407.135
03	389446.285	7466418.321
04	389464.193	7466424.792
05	389553.611	7466470.733
06	389620.196	7466370.023
07	390153.257	7466326.632
08	390166.969	7466320.659
09	390120.990	7466217.024
10	390069.651	7465983.280
11	389978.931	7465804.185
12	389950.009	7465813.478
13	390041.167	7465993.438
14	390092.339	7466226.419
15	390064.062	7466292.879
16	389988.162	7466292.608
17	389700.833	7466100.788
18	389494.027	7466132.601
19	389361.005	7466327.492

EXTRACTION AREA SETOUT

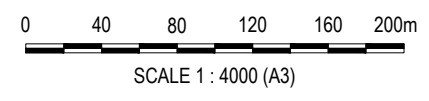
PT. NO.	EASTING	NORTHING
01	388930.330	7466067.126
02	388986.225	7466117.048
03	389043.997	7466164.874
04	389105.829	7466207.241
05	389169.503	7466246.631
06	389226.954	7466294.809
07	389288.928	7466336.919
08	389347.183	7466384.127
09	389428.161	7466442.363
10	389060.412	7466082.153
11	389148.168	7466136.330
12	389191.304	7466177.549
13	389233.764	7466219.807
14	389280.532	7466257.389
15	389327.078	7466295.125
16	389364.811	7466340.754
17	389405.466	7466384.873
18	389446.285	7466418.321

STOCKPILE / HARDSTAND SETOUT

PT. NO.	EASTING	NORTHING
01	389565.795	7466252.034
02	389595.763	7466272.489
03	389593.982	7466210.736
04	389623.950	7466231.191

ACCESS / TEMPORARY STOCKPILE SETOUT

PT. NO.	EASTING	NORTHING
01	389431.947	7466404.983
02	389448.053	7466415.976
03	389508.053	7466293.480
04	389524.159	7466304.473



170087-SK1/01
BURKE RIVER SAND EXTRACTION



PART F

**DA FORM 1 – DEVELOPMENT
APPLICATION DETAILS**

DA Form 1 – Development application details

Approved form (version 1.0 effective 3 July 2017) made under section 282 of the Planning Act 2016.

This form **must** be used to make a development application **involving code assessment or impact assessment**, except when applying for development involving building work.

For a development application involving **building work only**, use *DA Form 2 – Building work details*.

For a development application involving **building work associated with any other type of assessable development**, use this form (*DA Form 1*) **and** parts 4 to 6 of *DA Form 2 – Building work details*.

Unless stated otherwise, all parts of this form **must** be completed in full and all required supporting information **must** accompany the development application.

One or more additional pages may be attached as a schedule to this development application if there is insufficient space on the form to include all the necessary information.

This form and any other form relevant to the development application must be used to make a development application relating to strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994*, and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008*. For the purpose of assessing a development application relating to strategic port land and Brisbane core port land, any reference to a planning scheme is taken to mean a land use plan for the strategic port land, Brisbane port land use plan for Brisbane core port land, or a land use plan for airport land.

Note: All terms used in this form have the meaning given under the Planning Act 2016, the Planning Regulation 2017, or the Development Assessment Rules (DA Rules).

PART 1 – APPLICANT DETAILS

1) Applicant details	
Applicant name(s) <i>(individual or company full name)</i>	PE & GC Harris Contractors
Contact name <i>(only applicable for companies)</i>	William Green
Postal address <i>(P.O. Box or street address)</i>	Lot 9 Pituri Street
Suburb	Boulia
State	QLD
Postcode	4829
Country	Australia
Contact number	07 46515177 (W. Green)
Email address <i>(non-mandatory)</i>	wgreen@gbassoc.com.au
Mobile number <i>(non-mandatory)</i>	0474148882
Fax number <i>(non-mandatory)</i>	
Applicant's reference number(s) <i>(if applicable)</i>	1707-105 SPL

2) Owner's consent
2.1) Is written consent of the owner required for this development application?
<input checked="" type="checkbox"/> Yes – the written consent of the owner(s) is attached to this development application
<input type="checkbox"/> No – proceed to 3)

PART 2 – LOCATION DETAILS

3) Location of the premises (complete 3.1) or 3.2), and 3.3) as applicable)

Note: Provide details below and attach a site plan for any or all premises part of the development application. For further information, see [DA Forms Guide: Relevant plans](#).

3.1) Street address and lot on plan

- Street address **AND** lot on plan (all lots must be listed), **or**
 Street address **AND** lot on plan for an adjoining or adjacent property of the premises (appropriate for development in water but adjoining or adjacent to land e.g. jetty, pontoon; all lots must be listed).

a)	Unit No.	Street No.	Street Name and Type	Suburb
	Postcode	Lot No.	Plan Type and Number (e.g. RP, SP)	Local Government Area(s)

- Coordinates of premises by longitude and latitude

Extraction Site Burke River

Easting	Northing	Datum	Local Government Area(s) (if applicable)
388930.330	7466067.126	<input type="checkbox"/> WGS84 <input type="checkbox"/> GDA94 <input checked="" type="checkbox"/> Other: UTM (Zone 54)	Boulia Shire Council
388986.225	7466117.048		
389043.997	7466164.874		
389105.829	7466207.241		
389169.503	7466246.631		
389226.954	7466294.809		
389288.928	7466336.919		
389347.183	7466384.127		
389428.161	7466442.363		
389060.412	7466082.153		
389148.168	7466136.330		
389191.304	7466177.549		
389233.764	7466219.807		
389280.532	7466257.389		
389327.078	7466295.125		
389364.811	7466340.754		
389405.466	7466384.873		
389446.285	7466418.321		

Adjacent Road Reserve accessed via River Road, Boulia QLD

389413.094	7466385.890		
389430.478	7466407.135		
389446.285	7466418.321		
389464.193	7466424.792		
389553.611	7466470.733		
389620.196	7466370.023		
390153.257	7466326.632		
390166.969	7466320.659		
390120.990	7466217.024		
390069.651	7465983.280		
389978.931	7465804.185		
389950.009	7465813.478		
390041.167	7465993.438		
390092.339	7466226.419		
390064.062	7466292.879		
389988.162	7466292.608		
389700.833	7466100.788		
389494.027	7466132.601		
389361.005	7466327.492		

3.3) Additional premises

- Additional premises are relevant to this development application and their details have been attached in a schedule to this application
- Not required

4) Identify any of the following that apply to the premises and provide any relevant details

<input checked="" type="checkbox"/> In or adjacent to a water body or watercourse or in or above an aquifer	
Name of water body, watercourse or aquifer:	Burke River
<input type="checkbox"/> On strategic port land under the <i>Transport Infrastructure Act 1994</i>	
Lot on plan description of strategic port land:	
Name of port authority for the lot:	
<input type="checkbox"/> In a tidal area	
Name of local government for the tidal area (if applicable):	
Name of port authority for tidal area (if applicable):	
<input type="checkbox"/> On airport land under the <i>Airport Assets (Restructuring and Disposal) Act 2008</i>	
Name of airport:	
<input type="checkbox"/> Listed on the Environmental Management Register (EMR) under the <i>Environmental Protection Act 1994</i>	
EMR site identification:	
<input type="checkbox"/> Listed on the Contaminated Land Register (CLR) under the <i>Environmental Protection Act 1994</i>	
CLR site identification:	

5) Are there any existing easements over the premises?

Note: Easement uses vary throughout Queensland and are to be identified correctly and accurately. For further information on easements and how they may affect the proposed development, see DA Forms Guide.

- Yes – All easement locations, types and dimensions are included in plans submitted with this development application
- No

PART 3 – DEVELOPMENT DETAILS**Section 1 – Aspects of development****6.1) Provide details about the first development aspect**

a) What is the type of development? (tick only one box)			
<input checked="" type="checkbox"/> Material change of use	<input type="checkbox"/> Reconfiguring a lot	<input type="checkbox"/> Operational work	<input type="checkbox"/> Building work
b) What is the approval type? (tick only one box)			
<input checked="" type="checkbox"/> Development permit	<input type="checkbox"/> Preliminary approval	<input type="checkbox"/> Preliminary approval that includes a variation approval	
c) What is the level of assessment?			
<input type="checkbox"/> Code assessment	<input checked="" type="checkbox"/> Impact assessment (requires public notification)		
d) Provide a brief description of the proposal (e.g. 6 unit apartment building defined as multi-unit dwelling, reconfiguration of 1 lot into 3 lots):			
Extraction of sand from the Burke River approximately 500m SE of Boulia township. The proposed area of extraction is approximately 600m long by 50m wide. The proposed quantity of annual extraction is between 1000-10000tones in line with ERA 16 1(a) threshold. The extraction from the river bed is adjacent to the state reserve land and road reserve and privately owned land. The Road Reserve land to the SE side of the river is proposed to be utilised to gain access to the river from the River Road and also for temporary stockpiling of sand. The extraction of sand from the river will provide the community with a readily available source of local sand.			
e) Relevant plans			
<i>Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see DA Forms guide: Relevant plans.</i>			

Relevant plans of the proposed development are attached to the development application

6.2) Provide details about the second development aspect

a) What is the type of development? *(tick only one box)*

Material change of use Reconfiguring a lot Operational work Building work

b) What is the approval type? *(tick only one box)*

Development permit Preliminary approval Preliminary approval that includes a variation approval

c) What is the level of assessment?

Code assessment Impact assessment *(requires public notification)*

d) Provide a brief description of the proposal *(e.g. 6 unit apartment building defined as multi-unit dwelling, reconfiguration of 1 lot into 3 lots)*

e) Relevant plans

Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see [DA Forms Guide: Relevant plans](#).

Relevant plans of the proposed development are attached to the development application

6.3) Additional aspects of development

Additional aspects of development are relevant to this development application and the details for these aspects that would be required under Part 3 Section 1 of this form have been attached to this development application

Not required

Section 2 – Further development details

7) Does the proposed development application involve any of the following?

Material change of use Yes – complete division 1 if assessable against a local planning instrument

Reconfiguring a lot Yes – complete division 2

Operational work Yes – complete division 3

Building work Yes – complete *DA Form 2 – Building work details*

Division 1 – Material change of use

Note: This division is only required to be completed if any part of the development application involves a material change of use assessable against a local planning instrument.

8.1) Describe the proposed material change of use

Provide a general description of the proposed use	Provide the planning scheme definition <i>(include each definition in a new row)</i>	Number of dwelling units <i>(if applicable)</i>	Gross floor area (m ²) <i>(if applicable)</i>
Dredging	Environmentally Relevant Activity		
Removing quarry material	Resource Allocation		
Clearing	Clearing Native Vegetation		

8.2) Does the proposed use involve the use of existing buildings on the premises?

Yes

No

Division 2 – Reconfiguring a lot

Note: This division is only required to be completed if any part of the development application involves reconfiguring a lot.

9.1) What is the total number of existing lots making up the premises?

9.2) What is the nature of the lot reconfiguration? *(tick all applicable boxes)*

<input type="checkbox"/> Subdivision <i>(complete 10)</i>	<input type="checkbox"/> Dividing land into parts by agreement <i>(complete 11)</i>
<input type="checkbox"/> Boundary realignment <i>(complete 12)</i>	<input type="checkbox"/> Creating or changing an easement giving access to a lot from a construction road <i>(complete 13)</i>

10) Subdivision
10.1) For this development, how many lots are being created and what is the intended use of those lots:

Intended use of lots created	Residential	Commercial	Industrial	Other, please specify:
Number of lots created				

10.2) Will the subdivision be staged?

Yes – provide additional details below
 No

How many stages will the works include?	
What stage(s) will this development application apply to?	

11) Dividing land into parts by agreement – how many parts are being created and what is the intended use of the parts?

Intended use of parts created	Residential	Commercial	Industrial	Other, please specify:
Number of parts created				

12) Boundary realignment
12.1) What are the current and proposed areas for each lot comprising the premises?

Current lot		Proposed lot	
Lot on plan description	Area (m ²)	Lot on plan description	Area (m ²)

12.2) What is the reason for the boundary realignment?

13) What are the dimensions and nature of any existing easements being changed and/or any proposed easement?
(attach schedule if there are more than two easements)

Existing or proposed?	Width (m)	Length (m)	Purpose of the easement? <i>(e.g. pedestrian access)</i>	Identify the land/lot(s) benefitted by the easement

Division 3 – Operational work

Note: *This division is only required to be completed if any part of the development application involves operational work.*

14.1) What is the nature of the operational work?

<input type="checkbox"/> Road work	<input type="checkbox"/> Stormwater	<input type="checkbox"/> Water infrastructure
<input type="checkbox"/> Drainage work	<input type="checkbox"/> Earthworks	<input type="checkbox"/> Sewage infrastructure
<input type="checkbox"/> Landscaping	<input type="checkbox"/> Signage	<input type="checkbox"/> Clearing vegetation
<input type="checkbox"/> Other – please specify:		

14.2) Is the operational work necessary to facilitate the creation of new lots? *(e.g. subdivision)*

Yes – specify number of new lots: _____

<input type="checkbox"/> No
14.3) What is the monetary value of the proposed operational work? (include GST, materials and labour)
\$

PART 4 – ASSESSMENT MANAGER DETAILS

15) Identify the assessment manager(s) who will be assessing this development application
Boulia Shire Council
16) Has the local government agreed to apply a superseded planning scheme for this development application?
<input type="checkbox"/> Yes – a copy of the decision notice is attached to this development application <input type="checkbox"/> Local government is taken to have agreed to the superseded planning scheme request – relevant documents attached <input checked="" type="checkbox"/> No

PART 5 – REFERRAL DETAILS

17) Do any aspects of the proposed development require referral for any referral requirements?
<i>Note: A development application will require referral if prescribed by the Planning Regulation 2017.</i>
<input type="checkbox"/> No, there are no referral requirements relevant to any development aspects identified in this development application – proceed to Part 6
Matters requiring referral to the chief executive of the Planning Regulation 2017: <input checked="" type="checkbox"/> Clearing native vegetation <input type="checkbox"/> Contaminated land (<i>unexploded ordnance</i>) <input checked="" type="checkbox"/> Environmentally relevant activities (ERA) (<i>only if the ERA have not been devolved to a local government</i>) <input type="checkbox"/> Fisheries – aquaculture <input type="checkbox"/> Fisheries – declared fish habitat area <input type="checkbox"/> Fisheries – marine plants <input type="checkbox"/> Fisheries – waterway barrier works <input type="checkbox"/> Hazardous chemical facilities <input type="checkbox"/> Queensland heritage place (<i>on or near a Queensland heritage place</i>) <input type="checkbox"/> Infrastructure – designated premises <input type="checkbox"/> Infrastructure – state transport infrastructure <input type="checkbox"/> Infrastructure – state transport corridors and future state transport corridors <input type="checkbox"/> Infrastructure – state-controlled transport tunnels and future state-controlled transport tunnels <input type="checkbox"/> Infrastructure – state-controlled roads <input type="checkbox"/> Land within Port of Brisbane’s port limits <input type="checkbox"/> SEQ development area <input type="checkbox"/> SEQ regional landscape and rural production area or SEQ Rural living area – community activity <input type="checkbox"/> SEQ regional landscape and rural production area or SEQ Rural living area – indoor recreation <input type="checkbox"/> SEQ regional landscape and rural production area or SEQ Rural living area – residential development <input type="checkbox"/> SEQ regional landscape and rural production area or SEQ Rural living area – urban activity <input type="checkbox"/> Tidal works or works in a coastal management district <input type="checkbox"/> Urban design <input type="checkbox"/> Water-related development – taking or interfering with water <input checked="" type="checkbox"/> Water-related development – removing quarry material (<i>from a watercourse or lake</i>) <input type="checkbox"/> Water-related development – referable dams <input type="checkbox"/> Water-related development – construction of new levees or modification of existing levees (<i>category 2 or 3 levees only</i>) <input type="checkbox"/> Wetland protection area
Matters requiring referral to the local government: <input type="checkbox"/> Airport land <input type="checkbox"/> Environmentally relevant activities (ERA) (<i>only if the ERA have been devolved to local government</i>)

<input type="checkbox"/> Local heritage places
Matters requiring referral to the chief executive of the distribution entity or transmission entity:
<input type="checkbox"/> Electricity infrastructure
Matters requiring referral to:
<ul style="list-style-type: none"> • The chief executive of the holder of the licence, if not an individual • The holder of the licence, if the holder of the licence is an individual
<input type="checkbox"/> Oil and gas infrastructure
Matters requiring referral to the Brisbane City Council:
<input type="checkbox"/> Brisbane core port land
Matters requiring referral to the Minister under the Transport Infrastructure Act 1994:
<input type="checkbox"/> Brisbane core port land
<input type="checkbox"/> Strategic port land
Matters requiring referral to the relevant port operator:
<input type="checkbox"/> Brisbane core port land (below high-water mark and within port limits)
Matters requiring referral to the chief executive of the relevant port authority:
<input type="checkbox"/> Land within limits of another port
Matters requiring referral to the Gold Coast Waterways Authority:
<input type="checkbox"/> Tidal works, or development in a coastal management district in Gold Coast waters
Matters requiring referral to the Queensland Fire and Emergency Service:
<input type="checkbox"/> Tidal works, or development in a coastal management district

18) Has any referral agency provided a referral response for this development application?

- Yes – referral response(s) received and listed below are attached to this development application
- No

Referral requirement	Referral agency	Date of referral response
Environmentally relevant activities	DEHP	19/7/2016 (SPL-0416-029331)
Removal of quarry material	DNRM	19/7/2016 (SPL-0416-029331)
Clearing of vegetation	DNRM	19/7/2016 (SPL-0416-029331)

Identify and describe any changes made to the proposed development application that was the subject of the referral response and the development application the subject of this form, or include details in a schedule to this development application *(if applicable)*.

Extraction area – The proposed area of extraction has been greatly reduced

Extraction volumes – The proposed extraction volumes have been reduced. The initial application was for ERA 16 1(b) 10000 to 100000t/pa the revised extraction volume is 1000-10000t/pa ERA threshold 16 1(a).

Access and stockpiling area – The proposed access point to the river has been revised due to native title determination on lot 100 plan SP255329. The revised access and associated operational areas are proposed on the SE side of the river through road reserve.

PART 6 – INFORMATION REQUEST**19) Information request under Part 3 of the DA Rules**

- I agree to receive an information request if determined necessary for this development application
- I do not agree to accept an information request for this development application

Note: By not agreeing to accept an information request I, the applicant, acknowledge:

- that this development application will be assessed and decided based on the information provided when making this development application and the assessment manager and any referral agencies relevant to the development application are not obligated under the DA Rules to accept any additional information provided by the applicant for the development application unless agreed to by the relevant parties
- Part 3 of the DA Rules will still apply if the application is an application listed under section 11.3 of the DA Rules.

Further advice about information requests is contained in the DA Forms Guide.

PART 7 – FURTHER DETAILS

20) Are there any associated development applications or current approvals? (e.g. a preliminary approval)			
<input checked="" type="checkbox"/> Yes – provide details below or include details in a schedule to this development application <input type="checkbox"/> No			
List of approval/development application references	Reference number	Date	Assessment manager
<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Development application	Quarry Material Allocation #10000070	01/12/2017	DNRM
<input type="checkbox"/> Approval <input type="checkbox"/> Development application			

21) Has the portable long service leave levy been paid? (only applicable to development applications involving building work or operational work)		
<input type="checkbox"/> Yes – the yellow local government/private certifier's copy of the receipted QLeave form is attached to this development application <input checked="" type="checkbox"/> No – I, the applicant will provide evidence that the portable long service leave levy has been paid before the assessment manager decides the development application. I acknowledge that the assessment manager may give a development approval only if I provide evidence that the portable long service leave levy has been paid <input type="checkbox"/> Not applicable		
Amount paid	Date paid (dd/mm/yy)	QLeave levy number (A, B or E)
\$		

22) Is this development application in response to a show cause notice or required as a result of an enforcement notice?
<input type="checkbox"/> Yes – show cause or enforcement notice is attached <input checked="" type="checkbox"/> No

23) Further legislative requirements			
Environmentally relevant activities			
23.1) Is this development application also taken to be an application for an environmental authority for an Environmentally Relevant Activity (ERA) under section 115 of the <i>Environmental Protection Act 1994</i> ?			
<input checked="" type="checkbox"/> Yes – the required attachment (form EM941) for an application for an environmental authority accompanies this development application, and details are provided in the table below <input type="checkbox"/> No			
<i>Note: Application for an environmental authority can be found by searching "EM941" at www.qld.gov.au. An ERA requires an environmental authority to operate. See www.business.qld.gov.au for further information.</i>			
Proposed ERA number:	16	Proposed ERA threshold:	1(a)
Proposed ERA name:	Dredging		
<input type="checkbox"/> Multiple ERAs are applicable to this development application and the details have been attached in a schedule to this development application.			
Hazardous chemical facilities			
23.2) Is this development application for a hazardous chemical facility ?			
<input type="checkbox"/> Yes – Form 69: Notification of a facility exceeding 10% of schedule 15 threshold is attached to this development application <input checked="" type="checkbox"/> No			
<i>Note: See www.justice.qld.gov.au for further information.</i>			
Clearing native vegetation			

23.3) Does this development application involve **clearing native vegetation** that requires written confirmation the chief executive of the *Vegetation Management Act 1999* is satisfied the clearing is for a relevant purpose under section 22A of the *Vegetation Management Act 1999*?

Yes – this development application is accompanied by written confirmation from the chief executive of the *Vegetation Management Act 1999* (s22A determination)

No

Note: See www.qld.gov.au for further information.

Environmental offsets

23.4) Is this development application taken to be a prescribed activity that may have a significant residual impact on a **prescribed environmental matter** under the *Environmental Offsets Act 2014*?

Yes – I acknowledge that an environmental offset must be provided for any prescribed activity assessed as having a significant residual impact on a prescribed environmental matter

No

Note: The environmental offset section of the Queensland Government's website can be accessed at www.qld.gov.au for further information on environmental offsets.

Koala conservation

23.5) Does this development application involve a material change of use, reconfiguring a lot or operational work within an assessable development area under Schedule 10, Part 10 of the Planning Regulation 2017?

Yes

No

Note: See guidance materials at www.ehp.qld.gov.au for further information.

Water resources

23.6) Does this development application involve **taking or interfering with artesian or sub artesian water, taking or interfering with water in a watercourse, lake or spring, taking overland flow water or waterway barrier works**?

Yes – the relevant template is completed and attached to this development application

No

Note: DA templates are available from www.dilgp.qld.gov.au.

23.7) Does this application involve **taking or interfering with artesian or sub artesian water, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water** under the *Water Act 2000*?

Yes – I acknowledge that a relevant water authorisation under the *Water Act 2000* may be required prior to commencing development

No

Note: Contact the Department of Natural Resources and Mines at www.dnrm.qld.gov.au for further information.

Marine activities

23.8) Does this development application involve **aquaculture, works within a declared fish habitat area or removal, disturbance or destruction of marine plants**?

Yes – an associated resource allocation authority is attached to this development application, if required under the *Fisheries Act 1994*

No

Note: See guidance materials at www.daf.qld.gov.au for further information.

Quarry materials from a watercourse or lake

23.9) Does this development application involve the **removal of quarry materials from a watercourse or lake** under the *Water Act 2000*?

Yes – I acknowledge that a quarry material allocation notice must be obtained prior to commencing development

No

Note: Contact the Department of Natural Resources and Mines at www.dnrm.qld.gov.au for further information.

Quarry materials from land under tidal waters

23.10) Does this development application involve the **removal of quarry materials from land under tidal water** under the *Coastal Protection and Management Act 1995*?

Yes – I acknowledge that a quarry material allocation notice must be obtained prior to commencing development

<input checked="" type="checkbox"/> No Note: Contact the Department of Environment and Heritage Protection at www.ehp.qld.gov.au for further information.	
Referable dams 23.11) Does this development application involve a referable dam required to be failure impact assessed under section 343 of the <i>Water Supply (Safety and Reliability) Act 2008</i> (the Water Supply Act)?	
<input type="checkbox"/> Yes – the ‘Notice Accepting a Failure Impact Assessment’ from the chief executive administering the Water Supply Act is attached to this development application <input checked="" type="checkbox"/> No Note: See guidance materials at www.dews.qld.gov.au for further information.	
Tidal work or development within a coastal management district 23.12) Does this development application involve tidal work or development in a coastal management district ?	
<input type="checkbox"/> Yes – the following is included with this development application: <ul style="list-style-type: none"> <input type="checkbox"/> Evidence the proposal meets the code for assessable development that is prescribed tidal work (<i>only required if application involves prescribed tidal work</i>) <input type="checkbox"/> A certificate of title <input checked="" type="checkbox"/> No Note: See guidance materials at www.ehp.qld.gov.au for further information.	
Queensland and local heritage places 23.13) Does this development application propose development on or adjoining a place entered in the Queensland heritage register or on a place entered in a local government’s Local Heritage Register ?	
<input type="checkbox"/> Yes – details of the heritage place are provided in the table below <input checked="" type="checkbox"/> No Note: See guidance materials at www.ehp.qld.gov.au for information requirements regarding development of Queensland heritage places.	
Name of the heritage place:	Place ID:
Brothels 23.14) Does this development application involve a material change of use for a brothel ?	
<input type="checkbox"/> Yes – this development application demonstrates how the proposal meets the code for a development application for a brothel under Schedule 3 of the <i>Prostitution Regulation 2014</i> <input checked="" type="checkbox"/> No	
Decision under section 62 of the <i>Transport Infrastructure Act 1994</i> 23.15) Does this development application involve new or changed access to a state-controlled road?	
<input type="checkbox"/> Yes - this application will be taken to be an application for a decision under section 62 of the <i>Transport Infrastructure Act 1994</i> (subject to the conditions in section 75 of the <i>Transport Infrastructure Act 1994</i> being satisfied) <input checked="" type="checkbox"/> No	

PART 8 – CHECKLIST AND APPLICANT DECLARATION

24) Development application checklist	
I have identified the assessment manager in question 15 and all relevant referral requirement(s) in question 17 Note: See the <i>Planning Regulation 2017</i> for referral requirements	<input checked="" type="checkbox"/> Yes
If building work is associated with the proposed development, Parts 4 to 6 of <i>Form 2 – Building work details</i> have been completed and attached to this development application	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
Supporting information addressing any applicable assessment benchmarks is with development application Note: This is a mandatory requirement and includes any relevant templates under question 23, a planning report and any technical reports required by the relevant categorising instruments (e.g. local government planning schemes, State Planning Policy, State Development Assessment Provisions). For further information, see DA Forms Guide: Planning Report Template .	<input checked="" type="checkbox"/> Yes
Relevant plans of the development are attached to this development application Note: Relevant plans are required to be submitted for all aspects of this development application. For further	<input checked="" type="checkbox"/> Yes

information, see *DA Forms Guide: Relevant plans*.

The portable long service leave levy for QLeave has been paid, or will be paid before a development permit is issued (see 21)) Yes
 Not applicable

25) Applicant declaration

By making this development application, I declare that all information in this development application is true and correct

Where an email address is provided in Part 1 of this form, I consent to receive future electronic communications from the assessment manager and any referral agency for the development application where written information is required or permitted pursuant to sections 11 and 12 of the *Electronic Transactions Act 2001*

Note: It is unlawful to intentionally provide false or misleading information.

Privacy – Personal information collected in this form will be used by the assessment manager and/or chosen assessment manager, any relevant referral agency and/or building certifier (including any professional advisers which may be engaged by those entities) while processing, assessing and deciding the development application. All information relating to this development application may be available for inspection and purchase, and/or published on the assessment manager's and/or referral agency's website.

Personal information will not be disclosed for a purpose unrelated to the *Planning Act 2016*, *Planning Regulation 2017* and the DA Rules except where:

- such disclosure is in accordance with the provisions about public access to documents contained in the *Planning Act 2016* and the *Planning Regulation 2017*, and the access rules made under the *Planning Act 2016* and *Planning Regulation 2017*; or
- required by other legislation (including the *Right to Information Act 2009*); or
- otherwise required by law.

This information may be stored in relevant databases. The information collected will be retained as required by the *Public Records Act 2002*.

PART 9 – FOR OFFICE USE ONLY

Date received: Reference number(s):

Notification of engagement of alternative assessment manager

Prescribed assessment manager	
Name of chosen assessment manager	
Date chosen assessment manager engaged	
Contact number of chosen assessment manager	
Relevant licence number(s) of chosen assessment manager	

QLeave notification and payment

Note: For completion by assessment manager if applicable

Description of the work	
QLeave project number	
Amount paid (\$)	
Date paid	
Date receipted form sighted by assessment manager	
Name of officer who sighted the form	

The *Planning Act 2016*, the *Planning Regulation 2017* and the DA Rules are administered by the Department of Infrastructure, Local Government and Planning. This form and all other required development application materials should be sent to the assessment manager.



Queensland
Government

Department of
Natural Resources and Mines

Author: Graeme Geisler
File number: 2018/002746
Directorate / Unit: State Land Asset Management
Phone: (07) 4741 1657

8 May 2018

Attn: William Green
George Bourne and Associates Consulting Engineers
PO Box 169
Barcaldine QLD 4725

By email: wgreen@gbassoc.com.au

Dear William

Reference is made to the request for owners consent required to accompany the development application for Material Change of Use on parts of the Road Reserve of River Road, Boulia and the Unallocated State Land (USL) of the Burke River, Boulia for the purposes of stockpiling and extraction of sand from the Burke River.

The department hereby gives owner's consent to the above development application for Material Change of Use on parts of the Road Reserve of River Road, Boulia and the Unallocated State Land (USL) of the Burke River, Boulia for the purposes of stockpiling and extraction of sand from the Burke River.

Although owners consent to the development application has been provided and no tenure under the Land Act is required, your client is to undertake works on the land only if and when the development application has been approved by the assessment manager, and in accordance with the conditions of that approval.

A copy of this letter is to be attached to your DA Form 1 as the required evidence of owners consent.

Your client will also need to comply with all other legislative and regulatory requirements which may also include approvals that are not part of the assessment of the development application under the *Planning Act 2016* e.g. a marine park permit if in a marine park.

Further, please note that the above consent will expire on **8 November 2018**. Should the development application not be lodged with the assessment manager prior to this date, your client will be required again to lodge the DA Form 1 and any attachments with this Department

Postal :
DNRM Hughenden
PO Box 5318
Townsville 4810 QLD

Telephone : (07) 4741 1657
Website: www.dnrm.qld.gov.au
Email: Townsville.SLAMS@dnrm.qld.gov.au

with a further request for owners consent - any further request will need to be reconsidered by the Department.

It is also advised that any land use activities must comply with the *Aboriginal Cultural Heritage Act 2003* or the *Torres Strait Islander Heritage Act 2003*.

Finally, owner's consent is required under the *Planning Act 2016* to enable the application to be considered properly made for lodging with the assessment manager and is a completely separate process to assessment of the application under the *Planning Act 2016*.

Accordingly, the State may act at a later date as assessment manager or referral agency in the assessment of the development application - providing owners consent will not influence any role the State may have in this development assessment.

If you wish to discuss this matter please contact Graeme Geisler on (07) 4741 1657.

All future correspondence relative to this matter is to be referred to the contact Officer at the address below or by email to Townsville.SLAMS@dnrm.qld.gov.au. Any hard copy correspondence received will be electronically scanned and filed. For this reason, it is recommended that any attached plans, sketches or maps be no larger than A3-sized.

Please quote reference number 2018/002746 in any future correspondence.

Yours sincerely



Deanna Holder

Senior Land Officer

A duly authorised delegate of the Minister
under the current Land Act (Ministerial) Delegation

PART G

**DA FORM 1 – APPLICATION FOR
AN ENVIRONMENTAL AUTHORITY**

Application form

Application form

Development application Form 1 - Application details—attachment for an application for an environmental authority

Development application Form 1 - Application details—attachment for an application for an environmental authority

This form is to be attached to the Development application Form 1 - Application details when making a development application for prescribed environmentally relevant activities (ERAs). Under section 115 of the Environmental Protection Act 1994 (EP Act) the development approval application is taken to be an application for an environmental authority for the prescribed ERAs.

It is recommended that prior to making an application for an environmentally relevant activity (ERA), you read the information on what to provide with an application. This information is located on the Business Queensland website (formerly the Queensland Government's Business and Industry Portal) at www.business.qld.gov.au (use the search term "Environmental licence"). This website also has a diagnostic tool called the "forms and fees finder" which will help identify any fees and supporting information you need to make an application.

Only use this application form if you are applying for a new environmental authority (EA) where:

- All applicants are registered suitable operators¹.
- The ERA/s being applied for do not form part of an ERA project under an existing EA.
- If more than one ERA is being applied for, the ERAs must be carried out as part of a single integrated operation:
 - the ERAs will be carried out under the day to day management of a single responsible individual (e.g. a site manager or operations manager); and
 - all of the ERAs are operationally interrelated, that is, the operation cannot function without all of the ERAs. Separate applications will need to be made for the ERAs that cannot be carried out as a single integrated operation; and
 - the ERA/s are, or will be, carried out at one or more places; and
 - the places where the ERAs will be carried out are close enough to make the integrated day to day management of the activities feasible.
- The ERA/s being applied for are prescribed under section 19 of the *Environmental Protection Act 1994* (EP Act).
- If any of the ERAs being applied for are to be carried out on a parcel of land within a state development area and a particular use for the parcel of land is not stated in the approved development scheme, you have applied for, or hold a current approval for the use under section 84(4)(b) of the *State Development and Public Works Organisation Act 1971*.
- The application is not to dredge or extract more than 10,000 tonnes of material a year in the North Stradbroke Island region.

¹ If you are not a registered suitable operator you cannot apply for a new environmental authority. To become a registered suitable operator apply online through Connect at www.ehp.qld.gov.au/connect or request the form "Application to be a registered suitable operator - ESR/2015/1771" by emailing palm@ehp.qld.gov.au or phoning 1300 130 372 (option 4).

Application form

Development application Form 1 - Application details—attachment for an application for an environmental authority

Privacy statement

Where ERAs are administered by the Queensland Government:

The Department of Environment and Heritage Protection and Department of Agriculture and Fisheries are collecting the information on this form to process your application for an EA. The collection is authorised under Chapter 5 of the EP Act.

Please note that the administering authority is required to keep this application on a register of documents open for inspection by members of the public under section 540 of the EP Act, and must permit a person to take extracts from the register pursuant to section 542 of the EP Act. Your personal information will not be otherwise disclosed to any other parties unless authorised or required by law. For queries about privacy matters please email privacy@ehp.qld.gov.au or telephone: 13 74 68.

Where ERAs are administered by a local government:

Contact the local government for their privacy information.

Pre-lodgement meeting

If you would like to have a pre-lodgement meeting:

- for prescribed ERAs 2, 3 and 4—contact the Department of Agriculture and Fisheries by email at livestockregulator@daf.qld.gov.au
- for local government administered ERAs, contact the local government
- for any other ERA—please complete and lodge the form “Application for pre-lodgement services” (ESR/2015/1664²), prior to lodging this standard application for an environmental authority.

² This application form is available at www.qld.gov.au, using the publication number ESR/2015/1664 as a search term.

Application form

Development application Form 1 - Application details—attachment for an application for an environmental authority

The fields marked with an asterisk * are mandatory, if they are not completed then your application may be considered not properly made under section 128 of the *Environmental Protection Act 1994*.

1. Applicant details

To nominate a site or application contact for this application please provide details at Questions 14 and 15.

Is there more than one applicant? *	<input checked="" type="checkbox"/> No—provide applicant’s details below. <input type="checkbox"/> Yes—provide the principal applicant’s details below and all other applicants’ details in Attachment 1—“ <i>Joint applicants and appointment of principal applicant</i> ”
Name - individual or contact person if applicant is a organisation* Gem Harris	Suitable Operator Reference Number* 546740
Organisation name, including any trading name (*if an organisation) PE & GC Harris Road Contractors PTY LTD	ABN/ACN (*if an organisation) 92132614156
Residential or registered business address (not a post office box)* 9 Pituri St Boulia QLD,4829	Phone* 0428463133
Postal address (if same as above, write “AS ABOVE”)* PO Box 9, Boulia QLD, 4829	Facsimile
Email* gem_harris@bigpond.com	<input checked="" type="checkbox"/> Indicate if you want to receive correspondence via email

1.1 Nomination of an agent for this application

I/we nominate the below agent to act on my/our behalf and to receive correspondence relating to this application.

Do you want to nominate an agent for this application?*	
<input type="checkbox"/> No → Go to Question Error! Reference source not found. <input checked="" type="checkbox"/> Yes → Complete the agent’s details here.	
Name of agent – individual or contact person if agent is an organisation William Green	
Organisation name, including trading name if an organisation George bourne & Associates Consulting Engineers	ABN/ACN (if an organisation) 60084451526
Postal address 73 Elm Street Barcaldine	Phone 46515177
Email wgreen@gbassoc.com.au	<input checked="" type="checkbox"/> Indicate if you do not want to receive correspondence via email

2. Details of the ERA(s) being applied for

Complete the table below by advising which ERA(s) you are applying for. If the ERA has eligibility criteria and standard conditions³, identify whether you can comply with them. Select “N/A” where there are no eligibility criteria and standard conditions for that ERA. If you cannot comply with all of the applicable standard conditions, select “no” and attach details of the standard conditions you cannot comply with.

³ ERAs with eligibility criteria and standard conditions are listed at: www.business.qld.gov.au (use the search term “eligibility criteria”).

Application form

Development application Form 1 - Application details—attachment for an application for an environmental authority

ERA number*	Threshold*	Name of ERA*	I can comply with the eligibility criteria*	I can comply with all the standard conditions*
ERA 16	1a	Dredging 1000 -10000t/yr	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No

I have attached details of the standard conditions that I cannot comply with.

3. Description of land where the ERA/s will be carried out

Where activities will be undertaken at more than one location, provide details in Appendix 2.

Number*	Street Name*	Suburb/Town*	Postcode*
Adjacent to	River Road	Boulia	4829
Real Property Description*		Specific area within the location ie GPS or other descriptor*	
Lot Adjacent to Lot 5 Plan SP111278		Watercourse Lat -22.908010 Lon- 139.919805	
Port (*if applicable)		Project Name (*if applicable)	
		Burke River Sand Extraction	

4. Details of contaminated land

Is there a site management plan in effect for contaminated land that relates to the land that is the subject of this application?*		
<input checked="" type="checkbox"/> No	Go to <i>Question 5</i> .	
<input type="checkbox"/> Yes	Description of land*	
	Lot and plan number(s)	Local Government Area*
	Lot	Plan
	Lot	Plan
	Lot	Plan

5. Existing environmental authorities at the location

Do you have any existing environmental authorities at this location?*		
<input checked="" type="checkbox"/> No	Go to <i>Question 6</i> .	
<input type="checkbox"/> Yes	Existing EA number(s)*	Certification*
		<input type="checkbox"/> I certify that the ERA(s) being applied for do not form part of any existing environmental authority/ies

Development application Form 1 - Application details—attachment for an application for an environmental authority

6. Other related approvals

To avoid the possibility of your environmental authority application being invalid, you need to ensure any other required applications have been made prior to lodging this application. If you are not sure what approvals are required you should contact the planning area of your local government authority or if the area is within a State development area, visit the Department of State Development website at:

<http://www.statedevelopment.qld.gov.au> (search for state development area).

Are you required to obtain any of the following approvals to conduct the ERA(s)?*					
<ul style="list-style-type: none"> e.g. An approval for the use of land under the <i>State Development and Public Works Organisation Act 1971</i> 					
<input type="checkbox"/> No	Go to <i>Question 7</i>				
<input checked="" type="checkbox"/> Yes	Approval name*	Legislation*	Application number*	Date lodged*	Approval status*
	Quarry Material Allocation	Water Act	10000070		Approve

7. Environmental offsets

An environmental offset, under the *Environmental Offsets Act 2014*, may be required for an ERA where, despite all reasonable measures to avoid and minimise impacts on certain environmental matters, there is still likely to be significant residual impact on one or more of those matters.

You must verify the presence, whether temporary or permanent, of those environmental matters. For more information refer to the Queensland Environmental Offsets Policy and the Significant Residual Impact Guideline at the Queensland Government website at www.qld.gov.au, using the search term “environmental offsets”.

Will the ERA(s) being applied for result in a significant residual impact to a matter of State environmental significance (MSES)?*	
<input checked="" type="checkbox"/> No	Go to <i>Question 8</i> .
<input type="checkbox"/> Yes	<p>You must attach supporting information that:</p> <ol style="list-style-type: none"> Details the magnitude and duration of the likely significant residual impact on each prescribed environmental matter (other than matters of local environmental significance) for the entire activity; and Demonstrates that all reasonable measures to avoid and minimise impacts on each of those matters will be undertaken.

7.1 Notice of election

Has a notice of election been submitted to the administering authority, or is being submitted as part of this application?	
<input checked="" type="checkbox"/> No	Go to <i>Question 7.2</i> .
<input type="checkbox"/> Yes	<input type="checkbox"/> You can attach the notice of election, if it has not been submitted to the department. Go to <i>Question 7.3</i> .

7.2 Staged environmental offsets

Offset delivery can be staged, however for this to occur, the condition of any approved environmental authority needs to state that both the activity and the offset may be staged. As part of your notice of election for each stage under the *Environmental Offsets Act 2014*, you are required to provide a detailed assessment of the quantum of impact of that stage and the offset obligation requirement to be delivered for that stage.

Will the proposed ERA(s) and delivery of an environmental offset be undertaken in stages?	
<input checked="" type="checkbox"/> No	Go to <i>Question 7.3</i>

Application form

Development application Form 1 - Application details—attachment for an application for an environmental authority

<input type="checkbox"/> Yes	You must attach supporting information that details of how the activity/activities are proposed to be staged.
------------------------------	--

7.3 Nature conservation environmental offset

Has another authority issued under the <i>Nature Conservation Act 1992</i> required an environmental offset for the same, or substantially the same, impact and the same, or substantially the same, MSES?	
<input checked="" type="checkbox"/> No	Go to <i>Question 7.4</i>
<input type="checkbox"/> Yes	Provide permit number:

7.4 Marine parks environmental offset

Has marine park permit issued under the <i>Marine Parks Act 2004</i> required an environmental offset for the same, or substantially the same, impact and the same, or substantially the same, MSES?	
<input checked="" type="checkbox"/> No	Go to <i>Question 8</i>
<input type="checkbox"/> Yes	<input type="checkbox"/> You must attach a copy of the marine park permit to this application.

8. Matters of national environmental significance

There are currently nine matters of national environmental significance (MNES) which have been defined in the *Environment Protection and Biodiversity Conservation Act 1999 (Cth)* (EPBC Act). These are:

- world heritage properties
- national heritage places
- wetlands of international importance (listed under the Ramsar Convention)
- listed threatened species and ecological communities
- migratory species protected under international agreements
- Commonwealth marine areas
- the Great Barrier Reef Marine Park
- nuclear actions (including uranium mines)
- a water resource, in relation to coal seam gas development and large coal mining development

To determine whether the proposed ERA(s) will have a significant impact on MNES and for referral requirements, please refer to the guidance provided by the Federal Government's Department of Environment on www.environment.gov.au.

Would the carrying out of the proposed ERA(s) be likely to have a significant impact on a MNES?*	
<input checked="" type="checkbox"/> No	Go to <i>Question 9</i> .
<input type="checkbox"/> Yes	Has the proposal been referred to the Federal Department of Environment for formal assessment and approval? <input type="checkbox"/> No → Go to <i>Question 9</i> . <input type="checkbox"/> Yes → Go to <i>Question 8.1</i> .

8.1 EPBC Act approval for environmental offsets

Has an approval issued under the EPBC Act required an environmental offset for the same, or substantially the same, impact and the same, or substantially the same, MSES?	
<input checked="" type="checkbox"/> No	Go to <i>Question 9</i> .
<input type="checkbox"/> Yes	I have attached a copy of the approval under the EPBC Act. Are there any MNES which were assessed under the EPBC Act which are the same, or substantially the same as an MSES, but that were not conditioned in the approval? <input type="checkbox"/> No → Go to <i>Question 9</i> <input type="checkbox"/> Yes → List these MNES:

Development application Form 1 - Application details—attachment for an application for an environmental authority

9. Environmental impact statement under the *State Development and Public Works Organisation Act 1971*

Certain stages of the EA application process may not apply if the proposed activities were assessed as part of a coordinated project declared under the *State Development and Public Works Organisation Act 1971* (State Development Act), you are only required to answer Questions 9 to 9.1 if you have a current CG's evaluation report for the project.

Has an environmental impact statement (EIS) process under State Development Act been completed?*	
<input checked="" type="checkbox"/> No	Go to <i>Question 10</i> .
<input type="checkbox"/> Yes	What is the title and project name of the completed EIS?*
	<input type="checkbox"/> The EIS was completed for all activities that are the subject of this application. <input type="checkbox"/> The environmental risks or the way the activity/activities are proposed to be carried out have not changed since the EIS was completed. <input type="checkbox"/> The environmental risks or the way the activity/activities are proposed to be carried out have changed since the EIS was completed.
	<input type="checkbox"/> The EIS was not completed for all activities that are the subject of this application. <input type="checkbox"/> The environmental risks or the way the activity/activities are proposed to be carried out have not changed since the EIS was completed. <input type="checkbox"/> The environmental risks or the way the activity/activities are proposed to be carried out have changed since the EIS was completed.
	Was the EIS completed for all activities that are the subject of this application?*
	<input type="checkbox"/> No Please list the activities that were not included in the EIS or attach documentation with this information to this application: <input type="checkbox"/> I have attached the required supporting information.
<input type="checkbox"/> Yes	

9.1 Coordinator-General's conditions

Are there CG's conditions that relate to the ERA(s) being applied for?*	
<input checked="" type="checkbox"/> No →	Go to <i>Question 10</i> .
<input type="checkbox"/> Yes →	Name of the CG's evaluation report:

10. Assessment of the environmental impact

This question is **not applicable** if an EIS process under the State Development Act has been completed for all the ERA(s) that are the subject of this application and the environmental risks of the activities **and** the way they are proposed to be carried out has not changed since the EIS was completed.

You must attach to this application an assessment of the likely impact of each ERA on environmental values (*if applicable), including:

- a description of the environmental values likely to be affected by each relevant activity
- details of any emissions or releases likely to be generated by each relevant activity
- a description of the risk and likely magnitude of impacts on the environmental values
- details of the management practices proposed to be implemented to prevent or minimise adverse impacts
- details of how the land the subject of the application will be rehabilitated after each relevant activity ceases

Application form

Development application Form 1 - Application details—attachment for an application for an environmental authority

I have attached an assessment of the environmental impact and specific supporting information.

11. Details of waste management

Describe the proposed measures for minimising and managing waste generated by the activity/ies below *

I have attached the proposed measures.

12. Take effect date (when fees will commence being charged)

You may nominate when the EA will take effect should it be approved. The date the environmental authority takes effect will be the date from which you can commence the activities as well as the date your annual fees will commence to be charged (your anniversary date). Under section 200 of the EP Act, if a development permit for a material change of use under the *Planning Act 2016* or a State development area (SDA) approval is required in order to carry out the ERA the EA cannot take effect until the development permit or SDA approval takes effect (known as taking effect pending development approval).

Do you want the EA to take effect on the decision date, nominated date, or pending development approval?*	
<input checked="" type="checkbox"/> Decision date	The take effect date will be the date of the decision.
<input type="checkbox"/> Nominated date	Details of nominated take effect date:

13. Nomination of site contact

An alternative contact nominated by the legal entity which holds, or will in future hold, a relevant authority issued by the department. The department may direct correspondence relating to actual or potential compliance matters to the site contact.

Do you want to nominate a site contact?*		<input type="checkbox"/> No
		<input checked="" type="checkbox"/> Yes, provide details below
Title*	First Name*	Surname*
Mr	Erin	Roberts
Email Address*		<input type="checkbox"/> Indicate if you want to receive correspondence via email
0427463446		
Phone		

14. Nomination of application contact

An alternative contact nominated by the legal entity which has submitted, or will in future submit, applications to be assessed by the department. All departmental correspondence relating to the assessment of applications will

14. Nomination of application contact

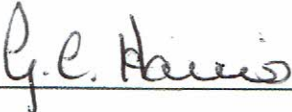
An alternative contact nominated by the legal entity which has submitted, or will in future submit, applications to be assessed by the department. All departmental correspondence relating to the assessment of applications will be directed to the application contact, however, if the application results in the issuing of a relevant authority, the relevant authority will be sent to the applicant.

Name or Position*	William Green
Primary Phone*	07465105177
Secondary Phone	0474148882
Email Address*	wgreen@gbassoc.com.au

15. Applicant declaration

I declare that the information I have provided is true and correct. I understand that it is an offence under the *Environmental Protection Act 1994* to give information that I know is false, misleading or incomplete. I will comply with all conditions on my environmental authority as well as any relevant provisions in the *Environmental Protection Act 1994*.

I understand that I am responsible for managing the environmental impacts of these activities, and that approval of this application is not an endorsement by the administering authority of the effectiveness of the management practices proposed or implemented.

Applicant's full name*	Gem Harris	Applicant's position*	Director
Applicant's signature*		Date*	8-11-17

Submit attachment, together with any additional information, with all relevant Development application Forms to the assessment manager for the development application.

Application form

Development application Form 1 - Application details—attachment for an application for an environmental authority

Attachment 1

Joint applicants and appointment of principal applicant

We are joint applicants for this environmental authority application and hereby appoint _____ as the principal applicant to receive statutory documents relating to this application.

Name - individual or contact person if applicant is an organisation*	Suitable Operator Reference Number*
Organisation name, including trading name (*if an organisation)	ABN/ACN (*if an organisation)
Residential or registered business address (not a post office box)*	Phone*
Postal address (if same as above, state "AS ABOVE") *	Facsimile
Email*	<input type="checkbox"/> Indicate if you want to receive correspondence via email
Signature*	Date*

Name - individual or contact person if applicant is an organisation*	Suitable Operator Reference Number*
Organisation name including trading name (*if an organisation)	ABN/ACN (*if an organisation)
Residential or registered business address (not a post office box)*	Phone*
Postal address (if same as above, state "AS ABOVE") *	Facsimile
Email*	<input type="checkbox"/> Indicate if you want to receive correspondence via email
Signature*	Date*

Name - individual or contact person if applicant is an organisation*	Suitable Operator Reference Number*
Business name including trading name (*if an organisation)	ABN/ACN (*if an organisation)
Residential or registered business address (not a post office box)*	Phone*
Postal address (if same as above, state "AS ABOVE") *	Facsimile
Email*	<input type="checkbox"/> Indicate if you want to receive correspondence via email
Signature*	Date*

Application form
Development application Form 1 - Application details—attachment for an
 application for an environmental authority

Attachment 2

List of locations where the ERA(s) will be carried out.

Where there is more than one location list all locations and which ERA(s) will be conducted at each location.

Number*	Street Name*	Suburb/Town*	Postcode*	ERA/s*
Real Property Description*		Specific area within the location ie GPS or other descriptor (*if applicable e.g. dredging)		
Lot	Plan			
Number*	Street Name*	Suburb/Town*	Postcode*	ERA/s*
Real Property Description*		Specific area within the location ie GPS or other descriptor (*if applicable e.g. dredging)		
Lot	Plan			
Number*	Street Name*	Suburb/Town*	Postcode*	ERA/s*
Real Property Description*		Specific area within the location ie GPS or other descriptor (*if applicable e.g. dredging)		
Lot	Plan			
Number*	Street Name*	Suburb/Town*	Postcode*	ERA/s*
Real Property Description*		Specific area within the location ie GPS or other descriptor (*if applicable e.g. dredging)		
Lot	Plan			
Number*	Street Name*	Suburb/Town*	Postcode*	ERA/s*
Real Property Description*		Specific area within the location ie GPS or other descriptor (*if applicable e.g. dredging)		
Lot	Plan			
Number*	Street Name*	Suburb/Town*	Postcode*	ERA/s*
Real Property Description*		Specific area within the location ie GPS or other descriptor (*if applicable e.g. dredging)		
Lot	Plan			
Number*	Street Name*	Suburb/Town*	Postcode*	ERA/s*
Real Property Description*		Specific area within the location ie GPS or other descriptor (*if applicable e.g. dredging)		
Lot	Plan			

PART H

**STATE CODE 15 – REMOVAL OF
QUARRY MATERIAL FROM A
WATERCOURSE OR LAKE**

State code 15: Removal of quarry material from a watercourse or lake

Table 15.2.1: Various aspects of development

Performance outcomes	Acceptable outcomes	Response
<p>PO1 Development does not adversely impact on the natural riverine ecosystem.</p>	<p>No acceptable outcome is prescribed.</p>	<p>PO1. Works will only occur during the dry season. The site will be shut down during periods of active flow in the watercourse and will therefore have minimal impact on the riverine ecosystem when aquatic activity increases in times of flow. The operational area to be utilised for extraction has been assessed for significant aquatic habitat or ecological features. The area is relatively homogenous comprising of a relatively even expanse of deposited fine grained material devoid of vegetation, pools or rifles within the river bed, and little habitat features such as flood debris or large boulders. As Identified in the Operations Plan for the activity, extraction is not to take place within 5m of the river bank or extend to depths greater than 2m below the riverbed. Prior to demobilisation from the extraction site no stockpiles or significant voids are to be present ensuring the riverbed is to be re-profiled to minimise riverbed levels as a result of extraction from the natural surface levels of the riverbed. Access onto the river is to be limited to one location and clearing at the access site within 100m of the river bank is to be restricted to 20m width.</p>
<p>PO2 Development does not adversely impact on other users' ability to access the resource.</p>	<p>No acceptable outcome is prescribed.</p>	<p>PO2. The volume of material proposed is relatively small (<10,000t/year) the impact area to be utilised for the activity will impact on a small extent of the water course. The activity within and adjacent to the water course will be limited to the dry season when there are no flows in the river. When operations are in progress within the River and adjacent to the river the impact on other users will be minimal, access to the river will be shared with the public, where access to the river during operational activities will be permitted outside of the immediate operational area.</p>

Performance outcomes	Acceptable outcomes	Response
PO3 Development does not adversely impact on the physical integrity of the watercourse or lake.	No acceptable outcome is prescribed.	<p>P03.</p> <p>The area impacted by the proposed works is limited. The changes to the physical integrity of the watercourse are minor by comparison to those which would be experienced during severe flooding. Extraction is not to take place within 5m of the river bank or extend to depths greater than 2m below the riverbed. Prior to demobilisation from the extraction site no stockpiles or significant voids are to be present, ensuring the riverbed is re-profiled to minimise variations from the natural surface levels of the riverbed. The access tracks to the site are already in existence and will not cause a significant impact to the banks of the river.</p>
PO4 Development does not adversely impact on downstream features, including but not limited to estuaries and beaches, that naturally require riverine quarry material from the watercourse or lake to maintain natural geomorphic processes.	No acceptable outcome is prescribed.	<p>P04.</p> <p>The extraction of material from a watercourse does not contravene any of the requirements in the listed plans and acts.</p>
PO5 Development is carried out in a way that would not adversely impact the structure or operation of built infrastructure such as road crossings, bridges, weirs and pump sites.	No acceptable outcome is prescribed.	<p>P05.</p> <p>The South West or downstream extent of the proposed extraction area is in the vicinity of the Kennedy Development Road crossing of the Burke River, the road crossing structure consists of a bridge leading into the township of Boulia. As stated in the Operations Management Plan extraction activities will not take place within 100m of this structure.</p>

PART I
STATE CODE 16 – NATIVE
VEGETATION CLEARING

State code 16: Native vegetation clearing

Table 16.2.2: General

Performance outcomes	Acceptable outcomes	Response
Clearing avoids or minimises impacts		
<p>PO1 Clearing and adverse impacts of clearing do not occur unless the application has demonstrated that the clearing and the adverse impacts of clearing have been:</p> <ol style="list-style-type: none"> 1. reasonably avoided; or 2. reasonably minimised where it cannot be reasonably avoided. 	No acceptable outcome is prescribed.	<p>PO1.</p> <p>Clearing associated with the development is minimal and avoidance of unnecessary clearing has been avoided. The extraction area within the river bed has very little vegetation, therefore clearing of vegetation within the extraction area will not be required. Clearing of remnant vegetation is to be restricted to the river access for machinery to access the river and temporarily store material. In accordance with drawing 170087-SK1/01 an access onto the river is to be cleared (approx. 1270m²) and a hardstand area 180m from the river for the short term storage of sand material and a parking area for machinery.</p>
Clearing on land in particular circumstances		
<p>PO2 Clearing is consistent with any notice requiring compliance on the land subject to the development application, unless a better environmental outcome can be achieved.</p> <p>Note: The discharge of the vegetation management requirements under the notice requiring compliance can only occur in conjunction with the better environmental outcome being legally secured. Further guidance on meeting the requirements of a better environmental outcome can be found in State code 16: Native vegetation clearing guidance material.</p>	No acceptable outcome is prescribed	<p>PO2.</p> <p>The land subject to the development application is not subject to preexisting notices or constraints.</p>

Performance outcomes	Acceptable outcomes	Response
<p>PO3 Clearing is consistent with vegetation management requirements for particular regulated areas unless a better environmental outcome can be achieved.</p> <p>Note: The discharge of the vegetation management requirements under the notice requiring compliance can only occur in conjunction with the better environmental outcome being legally secured. Further guidance on meeting the requirements of a better environmental outcome can be found in State code 16: Native vegetation clearing guidance material.</p>	No acceptable outcome is prescribed	<p>P03.</p> <p>The land subject development has not been identified as being subject to particular regulation associated with vegetation management.</p>
<p>PO4 Clearing of a legally secured offset area:</p> <ol style="list-style-type: none"> 1. is consistent with the offset delivery plan; or agreement for the offset area on the land subject to the development application; or 2. only occurs if an additional offset is provided that is consistent with the <i>Environmental Offsets Act 2014</i> and the relevant policy in the Queensland Environmental Offsets Policy, Department of Environment and Heritage Protection, 2014. <p>Note: Reference to ‘agreement’ above includes the ‘agreed delivery arrangement’ for the offset area as well as instruments associated with the legally secured offset area. Clearing should be consistent with any agreement however described.</p>	No acceptable outcome is prescribed	N/A
Clearing of vegetation as a result of the material change of use or reconfiguration of a lot		
<p>PO5 Clearing as a result of a material change of use, or clearing as a result of reconfiguring a lot does not occur.</p>	No acceptable outcome is prescribed.	<p>PO5. Clearing will be conducted subject to development approval as an activity identified in accordance with section 22A of the Vegetation Management Act 1999.</p>

Performance outcomes	Acceptable outcomes	Response
Clearing that could already be done under an exemption		
PO6 Clearing does not occur unless it is clearing that could be done under an exemption for the purpose of the development (as prescribed under Schedule 21 of the Planning Regulation 2017) prior to the material change of use or reconfiguring a lot application being approved.	No acceptable outcome is prescribed.	P06. Clearing can be conducted in accordance with exemptions identified under Schedule 21 of the Planning Regulation.

Table 16.2.3: Specific

Performance outcomes	Acceptable outcomes	Response
Clearing associated with wetlands (public safety and infrastructure, a coordinated project, extractive industry, high value agriculture clearing, and irrigated high value agriculture clearing)		
PO7 Clearing maintains the current extent of vegetation associated with any natural wetland to protect: <ol style="list-style-type: none"> 1. bank stability by protecting against bank erosion 2. water quality by filtering sediments, nutrients and other pollutants 3. aquatic habitat; and 4. terrestrial habitat. 	A07.1 Clearing does not occur in a natural wetland or within 100 metres of the defining bank of any natural wetland. OR	A07. Clearing does not occur in a natural wetland or within 100m of the defining bank of any natural wetland.
	A07.2 Clearing within 100 metres of the defining bank of any natural wetland: <ol style="list-style-type: none"> 1. does not occur within 50 metres of the defining bank of any natural wetland; and 2. does not exceed widths in table 16.3.1 in this code. OR	
	A07.3 Where clearing cannot be reasonably avoided, and clearing has been reasonably minimised, an offset is provided for any acceptable significant residual impact from clearing of vegetation associated with a natural wetland (matter of state environmental significance).	
Clearing associated with wetlands (necessary to control non-native plants or declared pests, encroachment, thinning, fodder harvesting) N/A		
Clearing associated with wetlands (necessary environmental clearing – land restoration and natural disaster preparation)		

Performance outcomes	Acceptable outcomes	Response
PO9 Clearing maintains vegetation associated with any natural wetland or rehabilitates the cleared area to protect: <ol style="list-style-type: none"> 1. water quality by filtering sediments, nutrients and other pollutants 2. aquatic habitat; and 3. terrestrial habitat. 	AO9.1 Clearing does not occur in, or within 100 metres of the defining bank of any natural wetland. OR	A09. Clearing does not occur in a natural wetland or within 100m of the defining bank of any natural wetland.
	AO9.2 Clearing within 100 metres of the defining bank of any natural wetland and: <ol style="list-style-type: none"> 1. does not occur within 50 metres of the defining bank of any natural wetland; and 2. does not exceed the widths in table 16.3.1 of this code. OR	
	AO9.3 Where clearing cannot be reasonably avoided, and clearing has been reasonably minimised, the cleared area is rehabilitated.	
Clearing associated with wetlands (necessary environmental clearing - natural channel diversion and contaminants removal)		
PO10 Clearing maintains the current extent of vegetation associated with any natural wetland or rehabilitates the cleared area to protect: <ol style="list-style-type: none"> 1. bank stability by protecting against bank erosion 2. water quality by filtering sediments, nutrients and other pollutants 3. aquatic habitat; and 4. terrestrial habitat. 	AO10.1 Clearing does not occur in, or within 100 metres of the defining bank of any natural wetland. OR	A010. Clearing does not occur in a natural wetland or within 100m of the defining bank of any natural wetland.
	AO10.2 Clearing within 100 metres of the defining bank of any natural wetland: <ol style="list-style-type: none"> 1. does not occur within 50 metres of the defining bank of any natural wetland; and 2. does not exceed the widths in table 16.3.1 of this code. OR	
	AO10.3 Where clearing cannot be reasonably avoided, and clearing has been reasonably minimised, the cleared area is rehabilitated. OR	

Performance outcomes	Acceptable outcomes	Response
	<p>AO10.4 Where clearing is for natural channel diversion or contaminants removal, and clearing cannot be reasonably avoided, and:</p> <ol style="list-style-type: none"> 1. clearing has been reasonably minimised; and 2. the cleared area cannot be reasonably rehabilitated <p>an offset is provided for any acceptable significant residual impact from clearing of vegetation associated with a natural wetland (a matter of state environmental significance).</p>	
<p>Clearing associated with watercourses and drainage features (public safety and relevant infrastructure activities, coordinated project, extractive industry, high value agriculture clearing, irrigated high value agriculture clearing)</p>		
<p>PO11 Clearing maintains the current extent of vegetation associated with any watercourse or drainage feature to protect:</p> <ol style="list-style-type: none"> 1. bank stability by protecting against bank erosion 2. water quality by filtering sediments, nutrients and other pollutants 3. aquatic habitat; and 4. terrestrial habitat. 	<p>AO11.1 Clearing does not occur in any watercourse or drainage feature, or within the relevant distance of the defining bank of any watercourse or drainage feature in table 16.3.2 of this code.</p> <p>OR</p> <p>AO11.2 Clearing within any watercourse or drainage feature, or within the relevant distance of the defining bank of any watercourse or drainage feature in table 16.3.2 of this code:</p> <ol style="list-style-type: none"> 1. does not exceed the widths in table 16.3.1 of this code; and 2. does not occur within 5 metres of the defining bank, unless clearing is required into or across the watercourse or drainage feature. <p>OR</p> <p>AO11.3 Where clearing cannot be reasonably avoided, and clearing has been reasonably minimised, an offset is provided for any acceptable significant residual impact from clearing of vegetation associated with any</p>	<p>A011.2. Clearing within 100m of the defining bank of the Burke River does not exceed 20m in width and clearing within 5 metres of the defining bank is provided for access into the watercourse only.</p>

Performance outcomes	Acceptable outcomes	Response
	watercourse or drainage feature (a matter of state environmental significance).	
Clearing associated with watercourses and drainage features (necessary environmental clearing - land restoration and natural disaster preparation) N/A		
Clearing associated with watercourses and drainage features (necessary environmental clearing – natural channel diversion, and contaminants removal) N/A		
Clearing associated with watercourses or drainage features (necessary to control non-native plants or declared pests, thinning, fodder harvesting) N/A		
Clearing associated with watercourses or drainage features (encroachment) N/A		
Maintaining connectivity (public safety and relevant infrastructure activities, extractive industry, high value agriculture clearing, irrigated high value agriculture clearing)		
PO16 In consideration of vegetation on the land subject to the development application and on adjacent land, sufficient vegetation is retained to maintain ecological processes and remains in the landscape despite threatening processes.	AO16.1 Clearing occurs in accordance with table 16.3.3 in this code.	AO16.1) Clearing maintains ecological connectivity of vegetation community in accordance with table 16.3.3 of this code.
Connectivity areas (coordinated project) N/A		
Maintaining connectivity (necessary environmental clearing - land restoration and natural disaster preparation) N/A		
Connectivity areas (necessary environmental clearing - natural channel diversion and contaminants removal) N/A		
Soil erosion (public safety and relevant infrastructure activities, coordinated project, high value agriculture clearing, irrigated high value agriculture clearing, necessary environmental clearing) N/A		
Salinity (public safety and relevant infrastructure activities, coordinated project, extractive industry, high value agriculture clearing, irrigated high value agriculture clearing, necessary environmental clearing, fodder harvesting)		
PO22 Clearing does not contribute to or accelerate land degradation through waterlogging, or through the salinisation of groundwater, surface water or soil.	No acceptable outcome is prescribed.	P022. Clearing is unlikely to cause land degradation as a result of small scale clearing activity. Clearing is to take place on deep alluvial soils (vertisols) associated with the flood channels in the associated area. The area has a relatively low groundwater level which is not susceptible to dry land salinity from small scale clearing activities.
Conserving endangered and of concern regional ecosystems (public safety and relevant infrastructure activities, coordinated project, extractive industry, high value agriculture clearing, irrigated high value agriculture clearing)		

Performance outcomes	Acceptable outcomes	Response
PO23 Clearing maintains the current extent of endangered regional ecosystems and of concern regional ecosystems.	AO23.1 Clearing does not occur in an endangered regional ecosystem or an of concern regional ecosystem. OR	A023.1. Clearing does not occur in an endangered regional ecosystem or an of concern regional ecosystem.
	AO23.2 Clearing in an endangered regional ecosystem or in an of concern regional ecosystem does not exceed the width or area prescribed in table 16.3.1 of this code. OR	
	AO23.3 Where clearing cannot be reasonably avoided, and clearing has been reasonably minimised, an offset is provided for any acceptable significant residual impact from clearing of endangered regional ecosystems and of concern regional ecosystems (a matter of state environmental significance).	
Essential habitat (public safety and relevant infrastructure activities, coordinated project, extractive industry, high value agriculture clearing and irrigated high value agriculture clearing, fodder harvesting)		
PO24 Clearing maintains the current extent of essential habitat.	AO24.1 Clearing does not occur in essential habitat. OR	AO24.1 Clearing does not occur in essential habitat.
	AO24.2 Clearing in essential habitat does not exceed the widths prescribed in table 16.3.1 of this code. OR	
	AO24.3 Clearing in essential habitat does not exceed the areas prescribed in table 16.3.1 of this code. OR	
	AO24.4 Where clearing cannot be reasonably avoided, and clearing has been reasonably minimised, an offset is provided for any acceptable significant residual impact from clearing of essential habitat (a matter of state environmental significance).	
Essential habitat (necessary environmental clearing – land restoration and natural disaster preparation) N/A		

Performance outcomes	Acceptable outcomes	Response
Essential habitat (necessary environmental clearing – natural channel diversion and contaminants removal) N/A		
Acid sulfate soils (public safety and relevant infrastructure activities, coordinated project, extractive industry, high value agriculture clearing, irrigated high value agriculture clearing, necessary environmental clearing, necessary to control non-native plants or declared pests, thinning, encroachment)		
<p>PO27 Clearing does not result in, or accelerate, disturbance of acid sulfate soils or changes to the hydrology of the location that will result in either of the following:</p> <ol style="list-style-type: none"> 1. aeration of horizons containing iron sulphides; or 2. mobilisation of acid or metals. 	<p>AO27.1 Clearing does not occur in land zone 1, land zone 2 or land zone 3.</p> <p>OR</p>	<p>AO24.1. Clearing does not occur in areas susceptible to acid sulfate soils.</p>
	<p>AO27.2 Clearing in land zone 1, land zone 2 or land zone 3 in areas below the five metre Australian Height Datum only occurs where:</p> <ol style="list-style-type: none"> 1. it does not involve mechanical clearing; and 2. acid sulfate soils are managed consistent with the State Planning Policy, Department of State Development, Infrastructure and Planning, 2014, Department of State Development, Infrastructure and Planning, 2014 and with the Soil Management Guidelines in the Queensland Acid Sulfate Soil Technical Manual, Department of Science Information Technology Innovation and the Arts, 2014. <p>OR</p>	
	<p>AO27.3 The local government is the assessment manager for the development application.</p>	
Clearing is staged (extractive industry)		
<p>PO28 Clearing:</p> <ol style="list-style-type: none"> 1. is staged in line with operational needs that restrict clearing to the current operational area 2. only occurs in the area from which material will be extracted, and any reasonably associated infrastructure, 	<p>No acceptable outcome is prescribed.</p>	<p>PO28. Clearing will only take place once all aspects of development approval have been addressed. The extent of clearing will be staged to limit the area of disturbance from the extractive activity. The extraction of material is to occur in a staged and ordered manner. The resource will be extracted from a single designated area at any</p>

Performance outcomes	Acceptable outcomes	Response
within the term of the development approval; and 3. does not occur without required permits.		point in time. New areas will be cleared sequentially in a downstream direction.
Clearing for agriculture (coordinated project, high value agriculture clearing, irrigated high value agriculture clearing) N/A		
Clearing for necessary environmental clearing – land restoration and natural disaster preparation N/A		
Clearing for necessary environmental clearing - natural channel diversion and contaminants removal N/A		
Conserving remnant vegetation that are regional ecosystems (necessary to control non-native plants or declared pests) N/A		
Requirements for dense regional ecosystems (necessary to control non-native plants or declared pests) N/A		
Conserving vegetation (thinning) N/A		
Clearing limited to specific regional ecosystems (thinning) N/A		
Retained vegetation density (thinning) N/A		
Clearing is limited to specific regional ecosystems (encroachment) N/A		
Retained trees (encroachment) N/A		
Limits to clearing for fodder harvesting (fodder harvesting) N/A		
Conserving vegetation (fodder harvesting) N/A		
Conserving endangered regional ecosystems and of concern regional ecosystems (fodder harvesting) N/A		
Cleared vegetation (fodder harvesting) N/A		
Conserving the fodder resource (fodder harvesting) N/A		

PART J
STATE CODE 22 –
ENVIRONMENTALLY RELEVANT
ACTIVITIES

State code 22: Environmentally relevant activities

Table 22.2.2: Material change of use

Performance outcomes	Acceptable outcomes	Response
All ERAs		
PO1 Development is suitably located and designed to avoid or mitigate environmental harm to the acoustic environment.	AO1.1 Development meets the acoustic quality objectives for sensitive receptors identified in the Environmental Protection (Noise) Policy 2008.	<p>P01.</p> <p>The activity is to take place in an area of low population density. Residents located in the general area of the activity are to be notified of planned works.</p> <p>Noise control measures include:</p> <ul style="list-style-type: none"> - Machineries shall only be operated within normal working hours. - All plant, machinery and tools should be maintained in good order (as per manufactures specifications) to reduce engine wear and noise. - All plant, machinery and tools shall be fitted with appropriate silencing equipment as required. - All plant and machinery shall be operated with engine covers installed where possible.
PO2 Development is suitably located and designed to avoid or mitigate environmental harm to the air environment.	AO2.1 Development meets the air quality objectives of the Environmental Protection (Air) Policy 2008.	<p>The activity is to take place in an area of low population density. Residents located in the general area of the activity are to be notified of planned works.</p> <p>Control measures may include:</p> <ul style="list-style-type: none"> - Regular watering of the site and access roads. - Fitting equipment with dust suppression devices.

Performance outcomes	Acceptable outcomes	Response
		<ul style="list-style-type: none"> - Covering loads. - Maintaining clean roadways to and from the construction zone. - Ensuring that all work facilities erected at the works are designed and operated to prevent the emission of smoke, dust and other objectionable matter into the atmosphere. - All plant and equipment to be regularly serviced and maintained to permit efficient operation and minimise exhaust and fuel emissions targets below the limits set by Australian design rules.
<p>PO3 Development, other than intensive animal industry for poultry farming, is suitably located and designed to avoid or mitigate environmental harm on adjacent sensitive land uses caused by odour.</p>	<p>No acceptable outcome is prescribed.</p>	<p>P03. The activity is not likely to cause odour emissions; no aspect of the development is associated with odour emitting activities.</p>
<p>PO4 Development is suitably located and designed to avoid or mitigate environmental harm to the receiving waters environment.</p>	<p>AO4.1 Development meets the management intent, water quality guidelines and objectives of the Environmental Protection (Water) Policy 2009.</p>	<p>P04. The activity has been planned and designed to avoid environmental harm to the receiving waters in a number of ways, including:</p> <ul style="list-style-type: none"> - The Activity has been located in a relatively low density area, the location of the extraction activity is in a low velocity area where disturbance in the water course is unlikely to cause changes to natural flow patterns and subsequent degradation.

Performance outcomes	Acceptable outcomes	Response
		<ul style="list-style-type: none"> - Minimising disturbance: Existing access tracks are to be utilised to the river access, avoiding additional disturbance through the clearing of access tracks. Clearing within 100m of the riverbank is to be restricted to a maximum of 20m width. Extraction works are to be staged in confined areas where activities do not progress past the designated area until rehabilitation has been completed. - The extraction activity is to be timed to take place when there is no flow in the river, extraction will take place in the dry season when river flows have subsided which will avoid reduced water quality of receiving waters. - Extraction is to be limited to 2m in depth and greater than 5m from the river bank, avoiding large variations in bed level gradients or erosion of river banks.
<p>PO5 Development is designed to include elements which:</p> <ol style="list-style-type: none"> 1. prevent or minimise the production of hazardous contaminants and waste as by-products; or 2. contain and treat hazardous contaminants on-site rather than releasing them into the environment; and 	<p>No acceptable outcome is prescribed.</p>	<p>P05. The objective of the applicant is to minimise the impact of waste on the environment by among other things ensuring rubbish and other waste materials generated as a result of the activities are suitably contained until disposal or reuse. Control measures may include:</p> <ul style="list-style-type: none"> - No waste or litter to be burnt or buried on site.

Performance outcomes	Acceptable outcomes	Response
<p>3. provide secondary containment to prevent the accidental release of hazardous contaminants to the environment from spillage or leaks.</p>		<ul style="list-style-type: none"> - Excess materials to be reused, recycled or disposed of at approved locations. - Rubbish bin provided. - Contaminated waste to be kept separate of general waste, and disposed of by appropriately licensed waste carriers in a legally approved location. - All hazardous wastes are to be disposed of in accordance with the requirement of the DEHP and approvals obtained prior to removal or remediation of contaminated land. - The work site is to be left in a neat and tidy state on completion of the activities. - No refuelling within 100m of watercourse, refuelling onsite is to take place at the designated hardstand area or the work depot.
<p>PO6 Environmentally hazardous materials located on site are stored to avoid or minimise their release into the environment due to inundation during flood events.</p>	<p>No acceptable outcome is prescribed.</p>	<p>P06.</p> <p>Hazardous materials are to be managed onsite to avoid releases to the environment, control measures may include:</p> <ul style="list-style-type: none"> - Machinery maintenance (i.e. oil change) cannot be conducted on work site. - Refuelling of machinery on site shall conform to the following requirements: <ul style="list-style-type: none"> o There is no refuelling within 100m of a watercourse or drainage line, onsite refuelling to take place at designated hardstand area o Fuelling activity to be supervised at all times

Performance outcomes	Acceptable outcomes	Response
		<ul style="list-style-type: none"> ○ Hose to be fitted with a stop valve at the nozzle end. - A hydrocarbon spill kit will be kept on-site and shall be of size/capacity to contain/clean up the volume of chemical and fuels being used on site (as per the requirements of AS1940-1993). - All chemicals and fuels onsite stored in volumes greater than 15l must be stored within a secondary containment system and not within 100m of the watercourse. - All machinery to be maintained to minimise the leakage of oil, fuel and hydraulic and other fluids. - Petroleum product spills are to be managed as per "Site Petroleum Spillage Action Plan".
All development – matters of environmental significance		
<p>PO7 Development:</p> <ol style="list-style-type: none"> 1. avoids impacts on matters of state environmental significance; or 2. minimises and mitigates impacts on matters of state environmental significance after demonstrating avoidance is not reasonably possible; and 3. provides an offset if, after demonstrating all reasonable avoidance, minimisation and mitigation measures are undertaken, the development results in an acceptable significant residual impact on a matter of state environmental significance. <p>Statutory note: For Brisbane core port land, an offset may only be applied to development on</p>	<p>No acceptable outcome is prescribed.</p>	<p>P07.</p> <p>The development takes place within an areas identified as having two matters of state environmental significance mapped in the area. These include:</p> <ol style="list-style-type: none"> 1. Strategic environmental area – Designated precinct, Channel Country Strategic Environmental Area 2. Regulated vegetation intersecting a watercourse. <p>The proposed activity has been planned and designed to avoid significant residual impact</p>

Performance outcomes	Acceptable outcomes	Response
<p>land identified as E1 Conservation/Buffer, E2 Open Space or Buffer/Investigation in the Brisbane Port LUP precinct plan. For the Brisbane Port LUP, see www.portbris.com.au.</p> <p>Note: Guidance for determining if the development will have a significant residual impact on a matter of state environmental significance is provided in the Significant Residual Impact Guideline, Department of State Development, Infrastructure and Planning, 2014. Where the significant residual impact is considered an acceptable impact on the matter of state environmental significance and an offset is considered appropriate, the offset should be delivered in accordance with the <i>Environmental Offsets Act 2014</i>.</p>		<p>to the immediate and surrounding environment.</p> <p>The activity is proposed in a strategic environmental area, considered to be a high preservation area. The proposed activity aims to minimise its impacts on the natural hydrologic and ecological values of the area. This objective will be achieved primarily by ceasing work in when the risk to impacts on the identified values is highest. During the wet season or times of high flows in the system activities will cease until drier conditions persist. The activity will only occur within the dryer months of the year when there are no flows in the river, when the risk of elevated flows is minimal.</p> <p>The activity has been designed to minimise the impact on the environmental values attributed to the Strategic environmental area and the Regulated vegetation intersecting the water course by implementing a number of strategies, including;</p> <ul style="list-style-type: none"> - Minimisation of vegetation clearing, the extent of vegetation clearing adjacent to the watercourse is limited to less than .5Ha - Rehabilitation of all disturbance areas associated with the activity is to take place at the closure of the activity - The vegetation clearing adjacent to the watercourse in accordance with clearing limits in state code 16 table 16.3.1 and

Performance outcomes	Acceptable outcomes	Response
		<p>listed as a purpose under section 22A of the Veg management act.</p> <ul style="list-style-type: none"> - Vegetation clearing has been avoided by utilising existing access tracks onto the river. - Vegetation clearing takes place entirely within least concern RE
Category C areas and category R areas of vegetation		
PO8 Development: <ol style="list-style-type: none"> 1. avoids impacts on category C areas of vegetation and category R areas of vegetation; or 2. minimises and mitigates impacts on category C areas and category R areas of vegetation after demonstrating avoidance is not reasonably possible. 	No acceptable outcome is prescribed.	P08. Clearing takes place entirely within Category B areas of vegetation mapped as least concern RE.
Intensive animal industry – poultry farming (ERA 4(2)) N/A		



All correspondence to be addressed to :
The Chief Executive Officer
Boulia Shire Council
18 Herbert St BOULIA QLD 4829

Telephone: (07) 4746 3188
Facsimile: (07) 4746 3136
Email: admin@boulia.qld.gov.au
ABN: 20 492 088 398

BOULIA SHIRE COUNCIL

Our reference: DA201718-1
Your reference: 170087/266570

27 June 2018

PE & GC Harris Contractors
Lot 9 Pituri Street
Boulia, QLD 4829
wgreen@gbassoc.com.au

Attention: William Green

Dear William

Information request

(Given under section 12 of the Development Assessment Rules)

The Boulia Shire Council has carried out a further review of your development application for the following premises.

Application details

Application number:	DA201718-1
Approval sought:	Development Permit
Nature of development proposed:	Extractive Industry (Sand Extraction) and Environmentally Relevant Activity 16 (1)(a) (dredging 1,000t to 10,000t)

Location details

Street address:	Burke River and adjacent Road Reserve accessed via River Road, Boulia QLD
-----------------	--

The Boulia Shire Council has determined that the following additional information is needed to assess the application:

1. Due to the inconsistency between the proposed hours of operation within Section 5.1 of the Planning Report (Monday to Friday 7am to 6pm, Saturday 7am to 12pm and not on Sunday and Public Holidays, during operational periods) and within Section 4.3 of the Operational Plan (Monday to Sunday 6am to 6pm, during operational periods), clarification is sought on the proposed hours of operation.
2. Advise on the location and type of employee ablution facilities and waste management to be provided on site.
3. Pages 13 and 14 of the Operational Plan advises that "The material extracted will be removed from site and if not required immediately it will be stockpiled at a stockpile pad at PE & GC Harris's work depot until required for works rather than stockpiled on site". Confirmation is sought on the location of

the depot and that this depot has the relevant town planning or other relevant approvals in place to allow for the stockpiling of material as proposed. As an alternative, the proponent may wish to advise that the existing depot will not be used for stockpiling purposes and that other on-site management arrangements will be implemented in relation to the stockpiling of material on-site.

The due date for providing the requested information is **27 September 2018**.

Please advise Boulia Shire Council of your response to this information request in accordance with section 13 of the Development Assessment Rules.

As the Boulia Shire Council's assessment of your application will be based on the information provided, it is recommended that you provide all of the information requested. In accordance with section 14.2 of the Development Assessment Rules, if you do not provide a response before the above due date (or a further agreed period), it will be taken as if you have decided not to respond to the information request and the Boulia Shire Council will continue with the assessment of your application without the information requested.

For further information please contact Lynn Moore, CEO on (07) 4746 3188 or via email ceo@boulia.qld.gov.au who will be pleased to assist.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Lynn Moore', written in a cursive style.

Ms Lynn Moore
Chief Executive Officer



Information Request

Burke River Sand Extraction

September 2018



Document Control

Rev	Prepared by:			Approved by:	
	Name	Review / Release	Comment	Signature/Name	Date
A	W. Green	Review	Draft		03/09/2018
1		Release	Report released to client.	Will Green	12/09/2018

GBA File/Doc no. 170087 / 299026

Contact for enquiries and proposed changes

If you have any questions regarding this document or if you have a suggestion for improvements, please contact:

Project Manager Will Green
Phone 07 4651 5177

TABLE OF CONTENTS

1. INTRODUCTION	1
2. GENERAL INFORMATION	1
2.1. Extraction Threshold.....	1
2.2. Screening Activities	1
2.3. Site Plan.....	1
3. AIR QUALITY.....	1
3.1. Potential Emissions	1
3.2. Mitigation Strategies Air Quality.....	1
4. NOISE	3
4.1. Environmental Values.....	3
4.2. Existing Back ground Noise	3
4.3. Noise Sources and Emissions	4
4.4. Management.....	5
4.4.1. Limited Working Hours.....	6
4.4.2. Limited Resource Extraction	6
4.4.3. Timing of Operations and Utilisation of Extraction Area.....	6
5. CONCLUSIONS	6

APPENDICES

Appendix A Sensitive Receptor Map

Appendix B Revised Plan – Burke River Sand Extraction

1. INTRODUCTION

Based on the assessment of application material provided for the Burke River Sand Extraction an Information Request was provided by the assessment agency. This information request and has been considered by the applicant. A response to the information requested is provided below. This response report has been developed to provide requested information in order for the assessment agency to progress the development application.

2. GENERAL INFORMATION

2.1. Extraction Threshold

The inclusion of ERA 16 (2)(b) Section 1 of the *Riverine Material Extraction Environmental Assessment & Operations Plan* is an administration error please disregard this reference and progress the application as ERA 16 (1)(a) only.

2.2. Screening Activities

Screening activities are not proposed as part of this operation, the material in the proposed extraction area is well graded, screening is not considered necessary for this activity.

2.3. Site Plan

An amended site plan has been provided (attached Appendix B).

3. AIR QUALITY

3.1. Potential Emissions

The proposed activity requiring the removal of sand material from the Burke River should not cause the suspension of harmful substances due to the absence of industry in the immediate area and within the catchment. Due to the absence of industry and subsequent absence of related contaminants no odour sources are unlikely to be associated with the activity.

The operational tasks associated with the activity will have the potential to emit air pollutants in the form of particulates including dust and exhaust emissions as a result of ground disturbance and machinery operation. The following management measures will be implemented to ensure that air quality objectives are met in accordance with Environmental Protection Air Policy 2009.

3.2. Mitigation Strategies Air Quality

The following sources and mitigation measures have been identified to reduce emissions to air for the proposed activity.

Dust source	Mitigation strategy
Exhaust emissions	Proper maintenance and tuning of engines
	Catalytic converters and exhaust filters utilised on machinery
	Limiting idling time
	Avoid overloading
Unsealed surfaces and traffic Movements	Wet down unsealed surfaces with water truck during operational activities when dry conditions prevail.
	20 km speed limit on site access roads
Wind erosion from stockpiled material	Minimise stockpiling of material where possible, access and utilise resource on a needs basis
	Water sprays used for dust suppression

Dust source	Mitigation strategy
	Limiting size of stockpiles
Earthmoving and excavation	Consider the timing of activities in relation to prevailing wind conditions
	Disturbed areas of earth to be minimised. Operations prone to generating dust to be restricted when dust emissions increase significantly, cease works when average wind speed exceeds 15 m/s.
	Check weather forecast daily – hot dry weather and high winds increase the risk of dust production, where conditions are likely to cause an increase in dust nuisance a review of proposed work methods is to be conducted, including: a) Review proposed work methods to identify measures to reduce dust – substitution of plant, staging works. b) Implement additional dust mitigation measures – applying water and/or approved soil binders to access tracks. c) Reschedule dust generating activities to avoid adverse weather conditions. d) Communicate dust risk and mitigation measures to staff prior to commencing work.
	Hours of operation to be restricted in accordance with Bouliia Shire Council's Planning Scheme (Monday to Friday 7am to 6pm, Saturday 7am to 12pm and not on Sunday and Public Holidays).
	Respond to complaints from neighbouring residences that dust originating from activities affecting them by: a) Correlating recorded weather data, wind direction, with time and location of the complainants b) Modify operations to reduce or eliminate the offending source of dust.

4. NOISE

4.1. Environmental Values

An assessment of environmental values within the vicinity of the proposed activity and within the township of Boulia was undertaken to determine:

- i) What environmental values were present within the surrounds; and
- ii) Which of these values could be impacted upon by the activity.

An assessment of environmental values identified within Schedule 1 of the EPP Noise Policy 2009 was conducted, this assessment identified environmental values most likely to be impacted upon were related to health and wellbeing during daytime for residents adjacent to the river. The closest receptor and the only receptor identified to be potentially impacted by the activity were the occupants of the Boulia Caravan Park on the South-east side of the river adjacent to the activity. It is noted that these occupant are also located adjacent to the major haul road (Diamantina Development Rd) to the west.

Values related to ecological disturbance such as areas of critical habitat or areas of major interest identified under the nature Conservation Act were not identified nearby. This assessment also identified that communal facilities such as education, health and public amenity facilities were located greater than 500m from the activity. Noise impacts at this distance from the proposed activity where determined not to cause a discernible noise impact, where noise generation calculations have identified a significant reduction in sound pressures.

To determine the level of impact on environmental values and sensitive receivers caused by the activity machinery noise outputs were determined by measuring sound levels from working machinery to be utilised for the proposed development. These sound levels were then applied to the proposed operational areas and modelled over set distances to predict noise output levels from identified receptor locations. A noise impact level of 50dB was nominated as an acceptable threshold in accordance with the acoustic quality objectives stated in the EPP Noise Policy 2009 for dwellings (for outdoors). A map showing the identified impact areas, is attached in Appendix A of this document.

4.2. Existing Background Noise

The proposed development occurs within the Rural Use zone of the Boulia Shire, approximately 300m from the Urban Zone of Boulia Township. Due to the low population density and absence of industry, noise activity in the area is low in comparison with major population centres and industrial areas. The highest noise generating activity in the vicinity of the proposed activity is the state controlled road (Diamantina Developmental Road) which runs adjacent to the proposed development. This road forms the main transport rout in the region and is a multi-combination vehicle rout utilised by road trains up to 53.5m in length, propelled by high powered engines. Other noise generating activities in the vicinity of the proposed development would be associated with local vehicle movements and small scale construction occurring on an intermittent basis.

The Diamantina Development Road has been identified as a significant contributor to background noise in the vicinity of the proposed development. Traffic data for this road has been analysed to determine the noise generation associated with the Diamantina Development Road in the immediate area. Traffic analysis data has been obtained from the Queensland Department of Traffic and Main Roads. An assessment of this data and projected noise impacts are provided below.

Average Annual Daily Traffic Data Diamantina Development Road								
All types	Ave No.	%	Category	Ave No.	%	Sub Category	Ave No.	%
All vehicles	90	100%	Light Vehicles	67	74	Light vehicle (2 axle)	50	56
						Light vehicle towing	17	19
			Heavy Vehicles	22	24	Truck and Busses	14	15
						Articulated Vehicles	5	6
						Road Trains	3	3

Projected noise impacts from the Diamantina Development Road to nearby receptors were conducted to identify existing noise characteristics of the area. Projected noise levels applied to this assessment have been obtained from traffic noise studies and product specification manuals. Results of this assessment are provided below. Projected noise levels are derived from the road centreline as a point of origin assuming traffic travelling at the speed limit of 60km/hr.

Calculated Noise Impacts to Nearby Sensitive Receptors from Diamantina Dev Rd Centreline @ 60km/Hr				
Receptor	Map code	Distance from Activity	Light Vehicles (L _{max} dBA)	Articulated Trucks (L _{max} dBA)
Caravan park Occupants	R1	98	50.7	56.7
Caravan Park Manager	R2	140	47.6	53.6
Private Resident	R3	566	35.47	41.4
Private Resident	R4	705	33.56	39.5

4.3. Noise Sources and Emissions

Noise associated with the proposed activity will be generated from machinery required to extract the sand within the river bed and haulage of the material from the river to site. The noise generation will not be from a fixed location and will vary depending on the task being undertaken and location of machinery at a particular time. The source of noise generated from the activity will be associated with heavy machinery used for the activity, this machinery includes a Caterpillar Loader and Kenworth truck with double trailers.

Given the nature of the activity, with extraction works occurring for greater than one hour periods throughout the day, L_{Aeq,adj,1hr} Acoustic quality objectives for outdoor dwellings were applied for loader operations. For Haulage activities which will occur on an intermittent basis when transportation of material offsite is required the L_{A10,adj,1hr} Acoustic quality objectives for outdoor dwellings have been applied.

In order to gain representative noise levels generated from the activity, incurred on receptors, average noise levels of the activity were applied. Estimated average noise levels were determined by identifying a central point within the operational areas and applying this average distance of machinery operation to receptors, providing an average distance between receptors and noise generating activities.

Results of noise monitoring and calculated levels at set distances from the activity are provided below.

Distance	Noise Source and Noise Level dB	
	Loader	Haulage Truck
30m	63	68
100m	52	58
300m	43	48
500m	24	44

* Loader Operating 2nd Gear 1700 RPM, Haulage Truck operating 2nd gear 20km/hr

Results of calculated noise impacts at identified sensitive receptor locations is provided below.

Calculated Noise Impacts to Sensitive Receptors from Loader Operations				
Receptor	Map code	Average Distance from Activity	Loader Noise Measured (L_{max} dBA)	Acoustic Quality objective target ($L_{A1,adj,1hr}$ dBA)
Caravan park Occupants	R1	290	43	50
Caravan Park Manager	R2	168	48	50
Private Resident	R3	280	44	50
Private Resident	R4	330	42	50

Calculated Noise Impacts to Sensitive Receptors from Haulage (Along Access Track)				
Receptor	Map code	Average Distance from Activity	Haulage Truck Noise measured (L_{max} dBA)	Acoustic Quality objective target ($L_{A10,adj,1hr}$ dBA)
Caravan park Occupants	R1	864	39	55
Caravan Park Manager	R2	721	40	55
Private Resident	R3	254	49	55
Private Resident	R4	409	45	55

*Calculated noise levels in section 4.3 have not taken natural noise dampening features such as vegetation and topography into account. Actual noise generation is likely to be lower than stated above.

4.4. Management

Management strategies have been identified to minimise noise impacts. As identified above and in the attached Map (Appendix A) sensitive receptors potentially impacted by the activity are limited to nearby dwellings adjacent to the river during the daytime. These dwellings include one resident to the north-east of the activity and the Boullia Caravan Park Manager and occupants. Impacts to these receivers are to be minimised through the implementation of a range of mitigation strategies, these strategies are described below.

4.4.1. Limited Working Hours

Hours of operation for the activity are to be limited to align with the Boulia Shire Town Planning Scheme, relating to “Non-rural” activities in the “Rural Zone” designed to maintain local values. The applicable work hours associated with the Town Planning Scheme are:

- 7:00am and 6:00pm, Monday to Friday and
- 7:00am and 12:00 (noon) on Saturdays.
- No works to occur on Sundays and Public Holidays

4.4.2. Limited Resource Extraction

Low extraction thresholds are applied to the proposed development in accordance with ERA 16 1(a) limited to 10,000 tonnes per year. The time required to extract the maximum amount of material allocated per year is estimated to take approximately 2-3 weeks per year. The activity will therefore have a low impact in terms of long-term noise impact on an annual basis.

4.4.3. Timing of Operations and Utilisation of Extraction Area

The majority of sand extraction will be planned to take place late in the dry season between September and November when the riverbed is at its driest, providing the most suitable conditions for the operation of machinery in the riverbed. At these times of the year noise impacts on sensitive receptors will be minimised as it coincides with the off-peak tourist season. Avoiding periods of high occupancy rates at the Boulia Caravan Park will avoid noise disturbance to occupants.

Operational activities will be coordinated to excavate sand nearby (within 100m) to sensitive receptors to avoid nuisance at critical times such as early morning and late afternoon. The timing of operations in these areas will take place in the middle of the day when residents are active and noise generation has a lower impact. If works are programmed to start in the early morning (7:00am) and finish at late (6:00pm) the works in the early morning and late afternoon will be programmed to take place in the lower impact areas in the upstream location of the extraction area to minimise impact on dwellings during quieter times of the day.

Strategic timing of operations in off-peak tourist times and spreading works across the extraction site to avoid impacts on dwellings will generate noise levels which adhere to the Acoustic quality objectives identified in Schedule 1 of the EPP Noise Policy 2009.

5. CONCLUSIONS

Given the relatively small scale of the proposed development, limited to 10,000 tonnes per year in accordance with ERA 16 1(a), the low population density, the absence of ecological sensitive species or habitats and the identification of a range of management strategies to minimise the impact of the activity, it is unlikely that this activity will significantly impact on environmental values or cause nuisance to the community. The assessment described above has identified only two receptors located within a 300m radius of the activity, the main receptor is associated with the land adjacent to the Burke River on the South-eastern bank (the Boulia Caravan park), it is noted that these receptors are also located adjacent to the major road which has a higher maximum noise emission than the proposed activities projected maximum noise level. As identified above minor impacts on sensitive receptors can be mitigated by managing operations to avoid frequent or continuous nuisance associated with the activity in accordance with Queensland Government’s regulatory framework.

APPENDIX A

SENSITIVE RECEPTOR MAP



Legend

- Sensitive Place
- Sensitive Receiver
- ▭ Operational Areas
- ▭ 30m Buffer
- ▭ 100m Buffer
- ▭ 300m Buffer
- Access Track
- State Roads
- Shire Roads
- Burke River

Map: 170087



**Burke River Sand Extraction
 Noise Assessment Map**



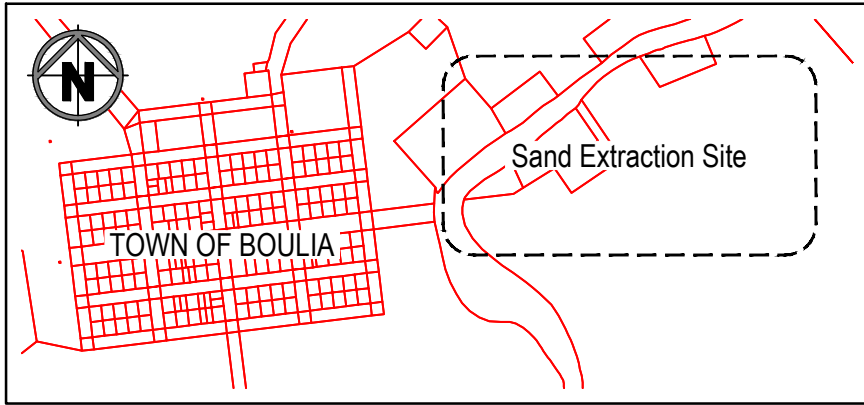
Information contained herein has been prepared by George Boume & Associates, and will not be copied without written authorisation from George Boume & Associates. It has been prepared for informative purposes, and not for legal or surveying purposes.

This document is produced by George Boume & Associates solely for the benefit of and use by the client in accordance with the terms of the agreement. George Boume & Associates does not and shall not assume any responsibility whatsoever to any third party arising out of any use or reliance by third parties on the content of this document.

Appendix B

Revised Plan –

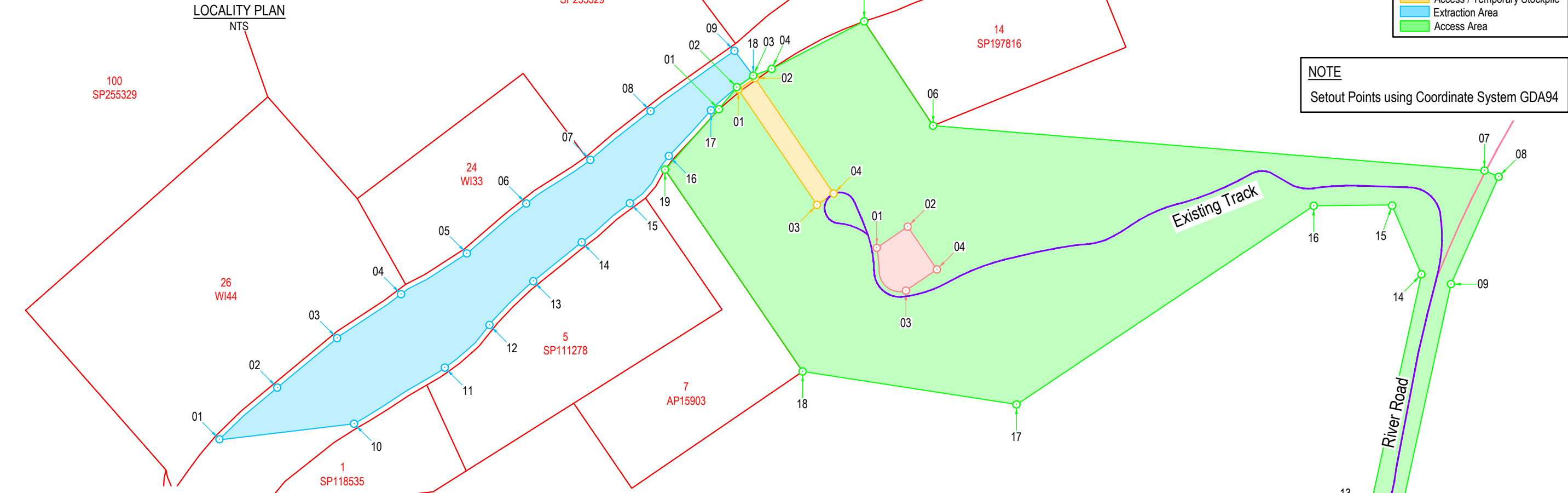
Burke River Sand Extraction



- NOTES**
1. Stockpile on River Bank max. width of 19.5m
 2. Extraction Area limit to be 105.0m from Bridge
 3. Extraction Area limit to be 5.0m from all Property Boundaries and River Banks

- LEGEND**
- Access Track
 - Shire Road
 - DTMR Road
 - Bridge
 - Property Boundary
 - Stockpile / Hard Stand
 - Access / Temporary Stockpile
 - Extraction Area
 - Access Area

NOTE
Setout Points using Coordinate System GDA94



ACCESS SETOUT

PT. NO.	LATITUDE	LONGITUDE
1	139.92169	-22.90686
2	139.92186	-22.90667
3	139.92202	-22.90657
4	139.92219	-22.90651
5	139.92307	-22.90610
6	139.92371	-22.90702
7	139.92890	-22.90744
8	139.92904	-22.90750
9	139.92858	-22.90843
10	139.92807	-22.91054
11	139.92717	-22.91215
12	139.92689	-22.91206
13	139.92779	-22.91044
14	139.92830	-22.90834
15	139.92803	-22.90774
16	139.92729	-22.90774
17	139.92448	-22.90945
18	139.92246	-22.90915
19	139.92118	-22.90738

EXTRACTION AREA SETOUT

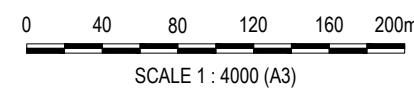
PT. NO.	LATITUDE	LONGITUDE
1	139.91696	-22.90971
2	139.91751	-22.90926
3	139.91808	-22.90883
4	139.91868	-22.90845
5	139.91931	-22.90810
6	139.91987	-22.90767
7	139.92048	-22.90729
8	139.92105	-22.90687
9	139.92184	-22.90635
10	139.91823	-22.90958
11	139.91909	-22.90909
12	139.91952	-22.90873
13	139.91993	-22.90835
14	139.92039	-22.90801
15	139.92085	-22.90767
16	139.92122	-22.90726
17	139.92162	-22.90687
18	139.92202	-22.90657

ACCESS / TEMPORARY STOCKPILE SETOUT

PT. NO.	LATITUDE	LONGITUDE
1	139.92188	-22.90669
2	139.92204	-22.90659
3	139.92261	-22.90770
4	139.92277	-22.90760

STOCKPILE / HARDSTAND SETOUT

PT. NO.	LATITUDE	LONGITUDE
1	139.92317	-22.90808
2	139.92347	-22.90789
3	139.92344	-22.90845
4	139.92374	-22.90827



170087-SK1/01
BURKE RIVER SAND EXTRACTION



02 August 2018



The Chief Executive Officer
Boulia Shire Council
18 Herbert Street,
Boulia QLD 4002

Attention: Lynn Moore

INFORMATION REQUEST RESPONSE – BURKE RIVER SAND EXTRACTION

Application details

Application number:	DA201718-1
Approval sought:	Development Permit
Nature of development proposed:	Extractive Industry (Sand Extraction) and Environmentally Relevant Activity 16 (1)(a) (dredging 1,000t to 10,000t)

Location details

Street address:	Burke River and adjacent Road Reserve accessed via River Road, Boulia QLD
-----------------	--

P.E & G.C Harris Road Contractors provide response to the following additional information requested for Boulia Shire Council to assess the application:

- 1. Due to the inconsistency between the proposed hours of operation within Section 5.1 of the Planning Report (Monday to Friday 7am to 6pm, Saturday 7am to 12pm and not on Sunday and Public Holidays, during operational periods) and within Section 4.3 of the Operational Plan (Monday to Sunday 6am to 6pm, during operational periods), clarification is sought on the proposed hours of operation.*
- 2. Advise on the location and type of employee ablution facilities and waste management to be provided on site.*
- 3. Pages 13 and 14 of the Operational Plan advises that "The material extracted will be removed from site and if not required immediately it will be stockpiled at a stockpile pad at PE & GC Harris's work depot until required for works rather than stockpiled on site". Confirmation is sought on the location of the depot and that this depot has the relevant town planning or other relevant approvals in place to allow for the stockpiling of material as proposed. As an alternative, the proponent may wish to advice that the existing depot will not be used for stockpiling purposes and that other on-site management arrangements will be implemented in relation to the stockpiling of material on-site.*

Response

1. The hours of operation will be amended in section 4.3 of the operation plan to align with the town planning report (Monday to Friday 7am to 6pm, Saturday 7am to 12pm and not on Sunday and Public Holidays, during operational periods) which reflects the acceptable timeframes for protecting the amenity of the rural zone in the town planning scheme. Given that the Planning Report operating hours have been determined to maintain local values these work hours will be adopted for this activity.

2. During operation ablation facilities will be provided for operational staff undertaking work activities, the ablation system will be in the form of a portable toilet. The toilet will be trailer mounted with approximately 240L waste capacity and 90L fresh water capacity. The dimensions of the unit will be 2.4m high by 1.2 metres wide. The ablation facility will be located on the site hardstand approximately 250m from the riverbank. Care will be taken to avoid any effluent contamination occurring onsite as a result of this activity.
3. The proponent wishes to advise that the existing depot will not be used for stockpiling purposes. It has come to the proponent's attention that the stockpiling of extracted materials at the work depot could potentially cause nuisance to nearby occupants, as such the proponent will not be utilising off site storage areas as a part of the extraction activity from the Burke River. The extraction activities will be managed so that extraction takes place on a needs basis and avoids the stockpiling of material on separate land parcels.

Should you require further information regarding this matter please do not hesitate to make contact.

Yours sincerely



Gem Harris
P.E & GC Harris Contractors

Permit

Environmental Protection Act 1994

Environmental authority EA0001474

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

Environmental authority number: EA0001474

Environmental authority takes effect on a date to be decided later.

Environmental authority holder(s)

Name(s)	Registered address
Gem C Harris	9 Pituri Street BOULIA QLD 4829

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Prescribed ERA, ERA 16 - Extraction and Screening, 1: Dredging, in a year, the following quantity of material, (a) 1000t to 10,000t	LOT 5/SP111278

Additional information for applicants

Environmentally relevant activities

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

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA 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 an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days);

that is causing, or is reasonably likely to cause, serious or material environmental harm.

Environmental authority

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise-on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the Planning Act 2016 or an SDA Approval under the State Development and Public Works Organisation Act 1971), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.

Clancy Mackaway
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Extraction, Energy and Chemical Industries
Assessment
Department of Environment and Science
Phone: 1300 130 372
Email: palm@des.qld.gov.au

Date issued: 21 September 2018

Environmental authority

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

Agency interest: General	
Condition number	Condition
G1	<p>Activities under this environmental authority must be conducted in accordance with the following limitations:</p> <ol style="list-style-type: none"> 1. Dredging activities must only occur within the 'extraction area' identified in drawing 170087-SK1/01 in Appendix 1. 2. The maximum amount of material permitted to be dredged is 10,000 tonnes per year. 3. Activities (other than the proposed access track) must not disturb the banks of waters.
G2	All reasonable and practicable measures must be taken to prevent or minimise environmental harm caused by the activities .
G3	Any breach of a condition of this environmental authority must be reported to the administering authority as soon as practicable within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions taken.
G4	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
G5	Environmental monitoring results must be kept until surrender of this environmental authority. All other information and records that are required by the conditions of this environmental authority must be kept for a minimum of five (5) years. All information and records required by the conditions of this environmental authority must be provided to the administering authority, or nominated delegate upon request, within the required timeframe and in the specified format.
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 National Association of Testing Authorities (NATA) certification, or an equivalent certification, for such analyses.
G8	When required by the administering authority , monitoring must be undertaken in the manner prescribed by the administering authority , to investigate a complaint of environmental nuisance arising from the activity . The monitoring results must be provided within 10 business days to the administering authority upon its request.
G9	<p>The activity must be undertaken in accordance with written procedures that:</p> <ol style="list-style-type: none"> 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

	<ol style="list-style-type: none"> 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.
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.
Agency interest: Air	
Condition number	Condition
A1	Other than as permitted within this environmental authority, odours or airborne contaminants must not cause environmental nuisance to any sensitive place or commercial place .
Agency interest: Land	
Condition number	Condition
L1	<p>Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that:</p> <ol style="list-style-type: none"> 1. suitable native species of vegetation for the location are established and sustained for earthen surfaces; 2. potential for erosion is minimised; 3. the quality of water released from the site, including seepage, does not cause environmental harm; 4. potential for environmental nuisance caused by dust is minimised; 5. the water quality of any residual water body does not have potential to cause environmental harm; 6. the final landform is stable and protects public safety.
L2	Rehabilitation of disturbed areas required under condition L2, must take place progressively as works are staged and are commenced.
L3	Contaminants must not be released to land.
L5	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system .

Agency interest: Acoustic																																	
Condition number	Condition																																
E1	<p>Noise from the activity must not exceed the levels identified in <i>Table 1 - Noise limits</i> when measured in accordance with the associated monitoring requirements.</p> <p>Table 1 - Noise limits</p> <table border="1"> <thead> <tr> <th rowspan="2">Noise Level measured in dBA</th> <th colspan="3">Monday to Saturday</th> <th colspan="3">Sunday and Public Holidays</th> </tr> <tr> <th>7am–6pm</th> <th>6pm–10pm</th> <th>10pm–7am</th> <th>7am–6pm</th> <th>6pm–10pm</th> <th>10pm–7am</th> </tr> </thead> <tbody> <tr> <td></td> <td colspan="6">Noise measured at the nearest noise sensitive place/receptor (dBA)</td> </tr> <tr> <td>LAeq adj, 1 hr</td> <td>40</td> <td>No audible noise</td> <td>No audible noise</td> <td colspan="3">No audible noise</td> </tr> </tbody> </table> <p>Associated monitoring requirements</p> <ol style="list-style-type: none"> All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual. Any monitoring must be in accordance with the most recent version of the administering authority's Noise Measurement Manual. Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation. 						Noise Level measured in dBA	Monday to Saturday			Sunday and Public Holidays			7am–6pm	6pm–10pm	10pm–7am	7am–6pm	6pm–10pm	10pm–7am		Noise measured at the nearest noise sensitive place/receptor (dBA)						LAeq adj, 1 hr	40	No audible noise	No audible noise	No audible noise		
Noise Level measured in dBA	Monday to Saturday			Sunday and Public Holidays																													
	7am–6pm	6pm–10pm	10pm–7am	7am–6pm	6pm–10pm	10pm–7am																											
	Noise measured at the nearest noise sensitive place/receptor (dBA)																																
LAeq adj, 1 hr	40	No audible noise	No audible noise	No audible noise																													
E2	Blasting or the generation of substantial low frequency noise is not permitted.																																
Agency interest: Water																																	
Condition number	Condition																																
W1	Contaminants must not be released to waters.																																

Definitions

Key terms and/or phrases bolded in this environmental authority are defined in this section. 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 Science 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 EA requirement and can give authoritative assessment, advice and analysis in relation to the EA requirements using the relevant protocols, standards, methods or literature.

Blasting is the use of explosives to fracture:

- rock, coal and other minerals for later recovery; or

- structural components or other items to facilitate removal from a site or for reuse.

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.

Disturbed areas includes areas:

1. that are susceptible to erosion;
2. that are contaminated by the activity; and/or
3. upon which stockpiles of soil or other materials are located.

Dredging means the mechanical removal of material from below naturally occurring surface waters. It excludes minor adjustments to the bed surface to level troughs and peaks and where bed material is only redistributed locally (bed levelling).

Environmental nuisance as defined in Chapter 1 of the *Environmental Protection Act 1994*.

Environmental value –

- a quality or physical characteristic of the environment that is conducive to ecological health or public amenity or safety; or
- another quality of the environment identified and declared to be an environmental value under an environmental protection policy or regulation.

Groundwater means water that occurs naturally in, or is introduced artificially into, an aquifer.

Land means any land, whether above or below the ordinary high-water mark at spring tides (i.e. includes **tidal land**).

Measures has the broadest interpretation and includes:

- Procedural measures such as standard operating procedures for dredging operations, environmental risk assessment, management actions, departmental direction and competency expectations under relevant guidelines
- Physical measures such as plant, equipment, physical objects (such as bunding, containment systems etc.), ecosystem monitoring and bathymetric surveys.

NATA means National Association of Testing Authorities.

New dredging activity means a dredging **activity** that is currently not underway, the next stage of a **dredging** campaign that is currently underway, or a discretely separate area in a larger dredge campaign that is currently underway.

Nominated delegate means another government agency that provides services to the **administering authority**.

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

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

Prescribed water contaminants means contaminants listed within Schedule 9 of the Environmental Protection Regulation 2008.

Priority ports

Each of the following ports is a priority port as per the *Sustainable Ports Development Act 2015*—

- (a) Port of Abbot Point;
- (b) Port of Gladstone;
- (c) the ports of Hay Point and Mackay;
- (d) Port of Townsville.

Records include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

Release of a contaminant into the environment means to:

1. deposit, discharge, emit or disturb the contaminant
2. cause or allow the contaminant to be deposited, discharged, emitted or disturbed
3. fail to prevent the contaminant from being deposited, discharged emitted or disturbed
4. allow the contaminant to escape
5. fail to prevent the contaminant from escaping.

Restricted area means an area that is within the Great Barrier Reef World Heritage Area but outside the Commonwealth marine park.

Note—See the Commonwealth *Marine Park Act* for prohibitions relating to the Commonwealth marine park and Great Barrier Reef Region under that Act.

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

1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or
4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
6. a public park or garden; or
7. for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

Substantial low frequency noise means a noise emission that has an unbalanced frequency spectrum shown in a one-third octave band measurement, with a predominant component within the frequency range 10 to 200 Hz. It includes any noise emission likely to cause an overall sound pressure level at a sensitive place exceeding 55 dB(Z).

Tidal land means land that is submerged at any time by tidal water.

Vibration is the oscillating or periodic motion of a particle, group of particles, or solid object about its equilibrium position.

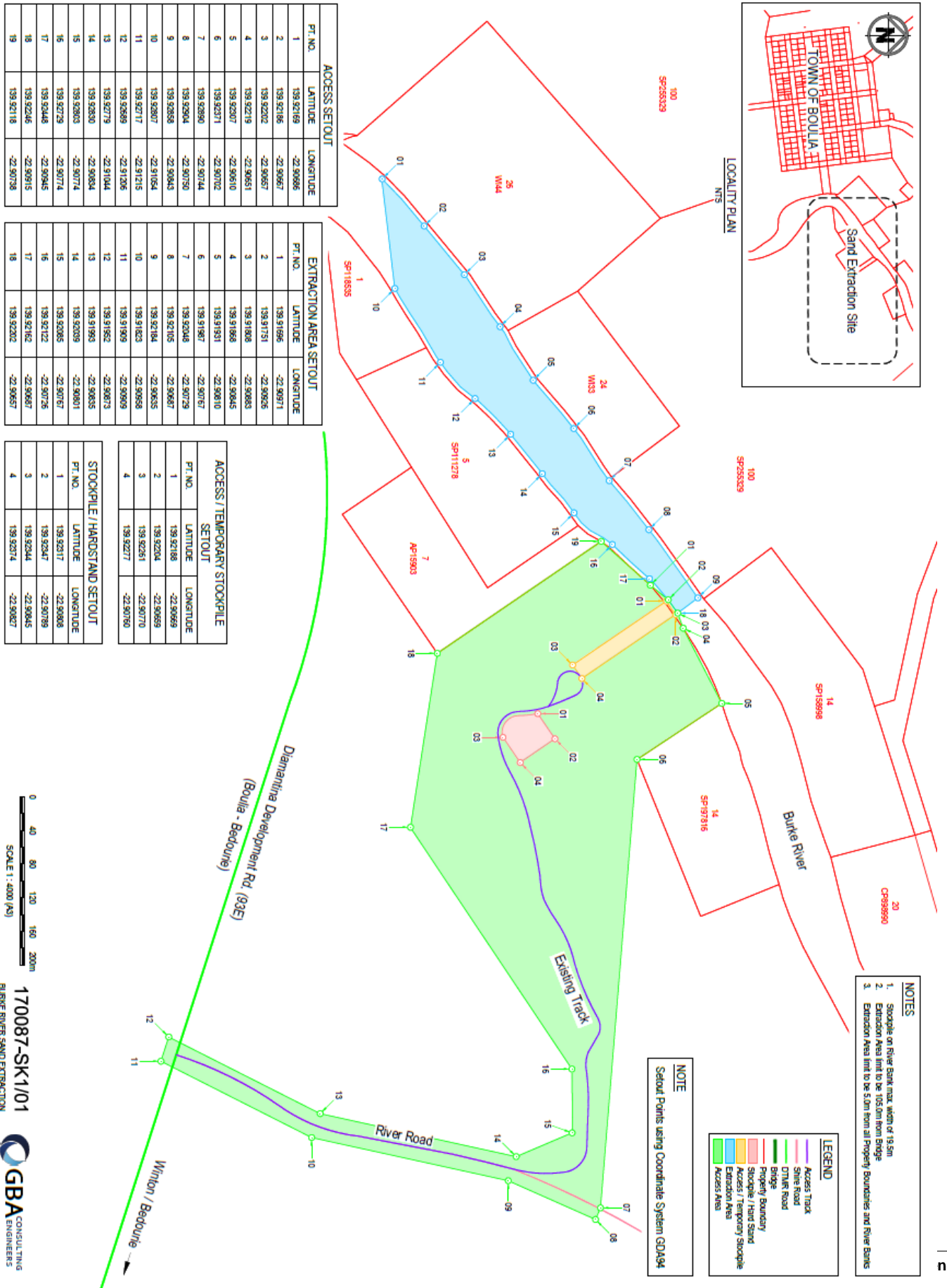
Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off,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

You means the holder of the environmental authority.

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.

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

Appendix 1 - drawing 170087-SK1/01



PT. NO.	LATITUDE	LONGITUDE
1	139.92169	-22.90886
2	139.92186	-22.90871
3	139.92202	-22.90857
4	139.92219	-22.90843
5	139.92207	-22.90810
6	139.92371	-22.90702
7	139.92980	-22.90744
8	139.92904	-22.90750
9	139.92858	-22.90843
10	139.92807	-22.91054
11	139.92717	-22.91215
12	139.92689	-22.91205
13	139.92779	-22.91044
14	139.92830	-22.90804
15	139.92803	-22.90774
16	139.92729	-22.90774
17	139.92448	-22.90945
18	139.92246	-22.90915
19	139.92118	-22.90738

PT. NO.	LATITUDE	LONGITUDE
1	139.91696	-22.90871
2	139.91751	-22.90856
3	139.91808	-22.90883
4	139.91868	-22.90845
5	139.91931	-22.90810
6	139.91967	-22.90757
7	139.92048	-22.90729
8	139.92105	-22.90687
9	139.92184	-22.90655
10	139.91823	-22.90658
11	139.91909	-22.90609
12	139.91952	-22.90873
13	139.91993	-22.90835
14	139.92039	-22.90801
15	139.92085	-22.90767
16	139.92122	-22.90726
17	139.92162	-22.90687
18	139.92202	-22.90657

PT. NO.	LATITUDE	LONGITUDE
1	139.92188	-22.90669
2	139.92204	-22.90659
3	139.92261	-22.90770
4	139.92277	-22.90780

PT. NO.	LATITUDE	LONGITUDE
1	139.92317	-22.90808
2	139.92347	-22.90789
3	139.92344	-22.90845
4	139.92374	-22.90827



170087-SK1/01
BURKE RIVER SAND EXTRACTION



END OF ENVIRONMENTAL AUTHORITY

Enquiries : William Green
Email : wgreen@gbassoc.com.au
Proj. No./Doc. ID : 170087/300916

Initials : WG:VFL

27 September 2018

The Chief Executive Officer
Boulia Shire Council
Herbert Street
Boulia QLD 4829
ceo@boulia.qld.gov.au

Attention : Lynn Moore

Dear Lynn,

**NOTICE OF INTENTION TO COMMENCE PUBLIC NOTIFICATION
(UNDER SECTION 17 OF THE DEVELOPMENT ASSESSMENT RULES)
APPLICATION NUMBER: DA201718-1**

Subject: Development application for Extractive Industry (sand Extraction) and Environmentally Relevant Activity 16 (1)(a)

Location: Burke River and Burke River and adjacent Road Reserve accessed via River Road, Boulia QLD

On behalf of my client PE & GC Harris Contractors, in accordance with section 17.2 of the Development Assessment Rules, I would like to notify of the intention to start the public notification in accordance with section 17.1 of the Development Assessment Rules. Public Notification is to commence on the 10th of October 2018 for a period of 17 business days.

At this time, I can advise that we intend to:

- i) Publish a notice in a local newspaper
- ii) Place notice on the premises in a way prescribed under the Development Assessment Rules
- iii) Notify the owners of all lots adjoining the premises of the activity

Should you require further information regarding the content of this letter, please do not hesitate to contact William Green of this office.

Yours faithfully



for **GEORGE BOURNE & ASSOCIATES**

CC : 1. PE & GC Harris Contractors



All correspondence to be addressed to :
The Chief Executive Officer
Boulia Shire Council
18 Herbert St BOULIA QLD 4829

Telephone: (07) 4746 3188
Facsimile: (07) 4746 3136
Email: admin@boulia.qld.gov.au
ABN: 20 492 088 398

BOULIA SHIRE COUNCIL

Our reference: DA201718-1
Your reference: 170087/266570

18th June 2018

PE & GC Harris Contractors
Lot 9 Pituri Street
Boulia, QLD 4829
wgreen@gbassoc.com.au

Attention: William Green

Dear William

Confirmation notice

(Given under section 2 of the Development Assessment Rules)

The development application described below was properly made to the Boulia Shire Council on 5 June 2018.

Applicant details

Applicant name: **PE & GC Harris Contractors**
Applicant contact details: **Lot 9 Pituri Street
Boulia, QLD 4829**

Location details

Street address: **Burke River and adjacent Road Reserve
accessed via River Road, Boulia QLD**
Real property description: **As detailed by attached metes and bounds table
and depicted by the attached plan**
Local government area: **Boulia Shire Council**

Application details

Application number: **DA201718-1**
Approval sought: **Development Permit**
Nature of development proposed: **Material Change of Use – Impact Assessment**
Description of the development proposed: **Extractive Industry (Sand Extraction) and Environmentally Relevant Activity 16 (1)(a) (dredging 1,000t to 10,000t)**

Referral details

Part 2 of the Development Assessment Rules is applicable to the development application.

The development application must be referred to all relevant referral agency(s) within 10 business days starting the day after receiving this notice, or a further period agreed with the assessment manager; otherwise the application will lapse under section 31 of the Development Assessment Rules.

The development application must be referred on the basis of the following referral triggers:

State Assessment and Referral Agency Department of State Development Manufacturing Infrastructure and Planning Mackay Isaac Whitsunday Postal: PO Box 257, Mackay Qld 4740 Email: miwsara@dilgp.qld.gov.au	In accordance with Schedule 10 of the Planning Regulation 2017.
---	---

Notwithstanding the information contained in the above table, it is the responsibility of the applicant to identify and undertake all relevant referrals for this application.

Information Request details

Preliminary Assessment of the application indicates that further information may be required for Council to complete an assessment and will be sent under separate cover.

Public notification details

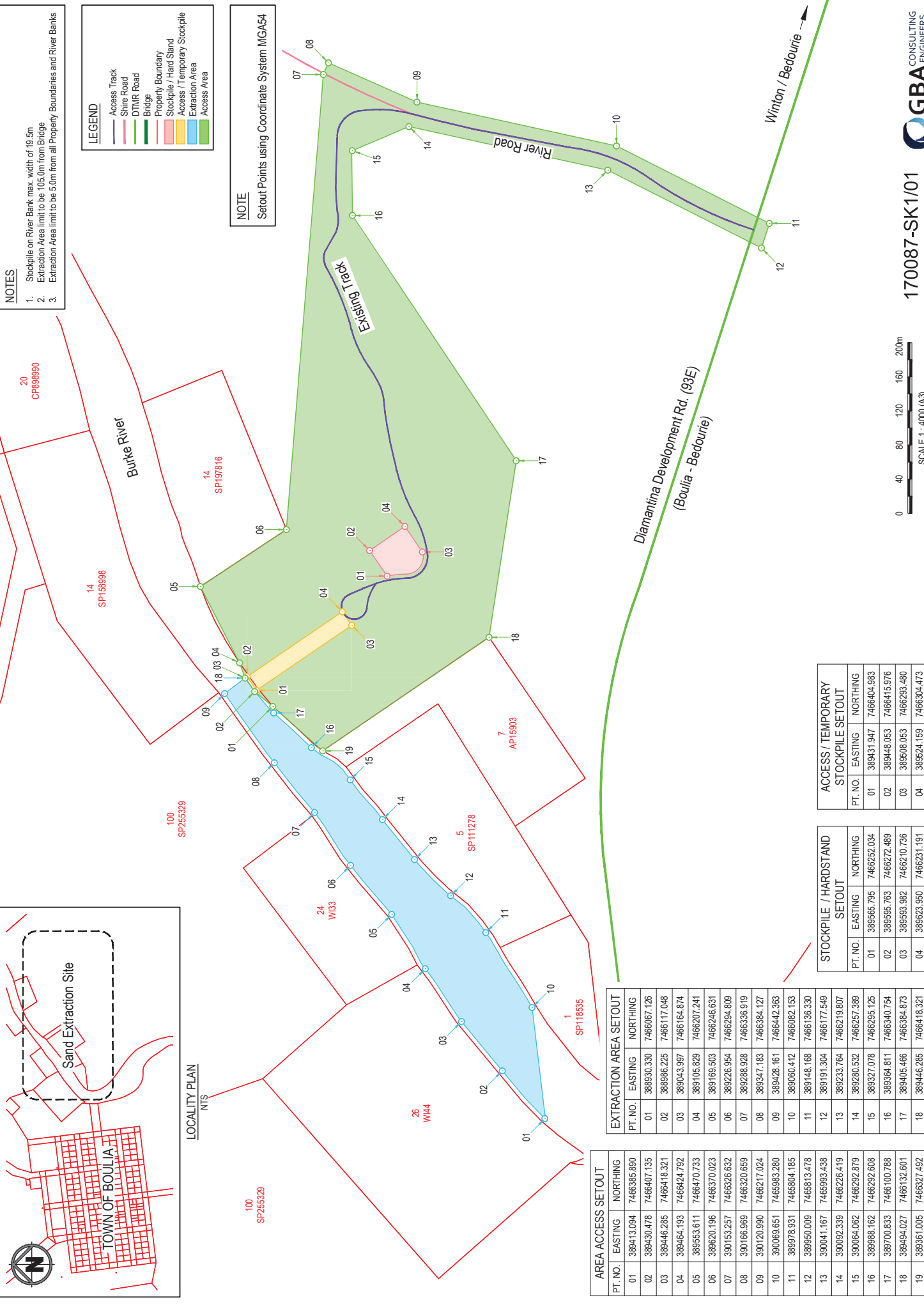
Part 4 of the Development Assessment Rules is applicable to this development application. Public notification is to be carried out for this development application in accordance with the requirements set out in Part 4 of the Development Assessment Rules. The public notification period for this development application must be a period of at least 15 business days, in accordance with section 53(4)(b) of the *Planning Act 2016*.

For further information please contact Lynn Moore, CEO on (07) 4746 3188 or via email ceo@bouliia.qld.gov.au who will be pleased to assist.

Yours sincerely



Ms Lynn Moore
Chief Executive Officer



NOTES

1. Stockpile on River Bank max. width of 19.5m
2. Extraction Area limit to be 10.5m from Bridge
3. Extraction Area limit to be 5.0m from all Property Boundaries and River Banks

LEGEND

- Access Track
- Shire Road
- DTMR Road
- Bridge
- Property Boundary
- Stockpile / Hard Stand
- Access / Temporary Stockpile
- Extraction Area
- Access Area

NOTE
Setout Points using Coordinate System MGA54

AREA ACCESS SETOUT

PT. NO.	EASTING	NORTHING
01	388413.094	7466385.690
02	388430.478	7466407.135
03	388446.285	7466418.321
04	388464.193	7466424.792
05	388553.611	7466470.733
06	388620.196	7466370.023
07	390153.257	7466326.632
08	390166.969	7466320.659
09	390120.990	7466217.024
10	390069.651	7465983.280
11	389978.931	7465804.185
12	389950.009	7465813.478
13	390041.167	7465993.438
14	390092.339	7466226.419
15	390064.062	7466292.879
16	389988.162	7466292.608
17	389700.833	7466100.788
18	388494.027	7466132.601
19	388361.005	7466327.492

EXTRACTION AREA SETOUT

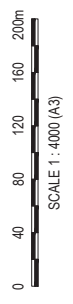
PT. NO.	EASTING	NORTHING
01	388930.330	7466067.126
02	388986.225	7466117.048
03	389043.997	7466164.874
04	389105.829	7466207.241
05	389169.503	7466246.631
06	389226.954	7466294.809
07	389288.928	7466336.919
08	389347.183	7466384.127
09	389428.161	7466442.363
10	389500.412	7466502.153
11	389148.168	7466136.330
12	389191.304	7466177.549
13	389233.764	7466219.807
14	389280.532	7466257.389
15	389327.078	7466295.125
16	389384.811	7466340.754
17	389405.466	7466384.873
18	389446.285	7466418.321

STOCKPILE / HARDSTAND SETOUT

PT. NO.	EASTING	NORTHING
01	389566.795	7466252.034
02	389598.763	7466272.489
03	389598.982	7466210.736
04	389623.950	7466231.191

ACCESS / TEMPORARY STOCKPILE SETOUT

PT. NO.	EASTING	NORTHING
01	389431.947	7466404.983
02	389448.053	7466415.976
03	389508.053	7466293.480
04	389524.159	7466304.473



Datum Other: UTM (Zone 54)

Extraction Site Burke River	
Easting	Northing
388930.330	7466067.126
388986.225	7466117.048
389043.997	7466164.874
389105.829	7466207.241
389169.503	7466246.631
389226.954	7466294.809
389288.928	7466336.919
389347.183	7466384.127
389428.161	7466442.363
389060.412	7466082.153
389148.168	7466136.330
389191.304	7466177.549
389233.764	7466219.807
389280.532	7466257.389
389327.078	7466295.125
389364.811	7466340.754
389405.466	7466384.873
389446.285	7466418.321

Adjacent Road Reserve accessed via River Road, Boulia QLD	
Easting	Northing
389413.094	7466385.89
389430.478	7466407.135
389446.285	7466418.321
389464.193	7466424.792
389553.611	7466470.733
389620.196	7466370.023
390153.257	7466326.632
390166.969	7466320.659
390120.99	7466217.024
390069.651	7465983.28
389978.931	7465804.185
389950.009	7465813.478
390041.167	7465993.438
390092.339	7466226.419
390064.062	7466292.879
389988.162	7466292.608
389700.833	7466100.788
389494.027	7466132.601
389361.005	7466327.492

Information supplied by the applicant