

Date : 25/06/2018 9:41:35 AM
From : "Dearlove, John"
To : "TRELOAR Kirstie"
Subject : Accepted: DES and CCRC - Goondi Bend Landfill

□

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Date : 25/06/2018 9:38:29 AM
From : "Hammond, Gavin"
To : "TRELOAR Kirstie"
Subject : Accepted: DES and CCRC - Goondi Bend Landfill

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Date : 25/06/2018 9:33:12 AM

From : "TRELOAR Kirstie"

To : "CAVICCHIOLO Mark" , "QUICK Calvin" , "Dearlove, John" , "Hammond, Gavin"

BCc : "ROOM-Cairns WMP - Level 3 - Wet Tropics (seats 16) Ph 07 4222 5165"

Subject : DES and CCRC - Goondi Bend Landfill

Hello all,

Requesting a teleconference to discuss environmental matters regarding the Goondi Bend Landfill.

Kind regards,



Kirstie Treloar

Senior Environmental Officer (Compliance)

Minerals and North Region Compliance | Environmental Services & Regulation

Department of Environment and Science

P 07 4222 5212

Level 3, 5B Sheridan Street , Cairns QLD 4870

PO Box 7230, Cairns , QLD 4870

□

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Date : 22/03/2018 2:26:58 PM

From : "TRELOAR Kirstie"

To : "jim.straker@ccrc.qld.gov.au"

Subject : FW: Copies of the EAs

Attachment : EA_Goondi Bend Landfill.pdf;image001.png;image003.jpg;image004.png;image005.jpg;image006.png;

And email two.



Kirstie Treloar

Senior Environmental Officer (Compliance)

Minerals and North Region Compliance | Environmental Services & Regulation

Department of Environment and Science

P 07 4222 5212

Level 3, 5B Sheridan Street, Cairns QLD 4870

PO Box 7230, Cairns, QLD 4870



From: TRELOAR Kirstie

Sent: Thursday, 22 March 2018 2:09 PM

To: 'jim.straker@ccrc.qld.gov.au' <jim.straker@ccrc.qld.gov.au>

Cc: QUICK Calvin <Calvin.Quick@des.qld.gov.au>

Subject: Copies of the EAs

Hi Jim,

As requested please find attached electronic versions of the two environmental authorities audited yesterday. I have updated Calvin on the two CCRC actions you mentioned.

Kind regards,



Kirstie Treloar

Senior Environmental Officer (Compliance)

Minerals and North Region Compliance | Environmental Services & Regulation

Department of Environment and Science

P 07 4222 5212

Level 3, 5B Sheridan Street, Cairns QLD 4870

PO Box 7230, Cairns, QLD 4870



Date : 25/09/2018 4:38:50 PM
From : "Dearlove, John"
To : "QUICK Calvin" , "TRELOAR Kirstie"
Subject : Goondi bend landfill
Attachment : 118092516390102309.jpg;

Hi Calvin and Kirstie,

Hope all is going safe & well for you both ☺

We have undertaken a good deal of works to clear site and drain vegetation and be in a position to inspect along with drone surveying of the entire site including the Bourkes boundary and drain alignment.

Accordingly would you like to schedule a visit at some stage so we can mutually assess site status and discuss any requirements to progress site closure and the range of monitoring being undertaken. Gas monitoring is one that we would particularly like to resolve.

s.73 so maybe after that in mid to late October if that suits ?

Kind Regards

John Dearlove

Coordinator Environmental Services | Cassowary Coast Regional Council

P: 07 40302267 (Innisfail) or 403439187 (Tully) M: sch4p4(6) Person

E: john.dearlove@ccrc.qld.gov.au W: www.cassowarycoast.qld.gov.au

PO Box 887, Innisfail QLD 4860



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Date : 6/06/2018 2:32:59 PM
From : "Dearlove, John"
To : "TRELOAR Kirstie"
Subject : Goondi letter
Attachment : 118060614330400545.png;

Hi Kirstie,

When able and free for 15 minutes or so would you mind giving me a call to run through a couple of queries I have regarding the compliance letter for Goondi ?

As a heads up these include:

- Goondi Bend and s.73 andfill closures administrative process
- s.73
- Confirmation of the authorised discharge point at Goondi Bend G3 or G4
- Threshold limits applicable to Surface water monitoring points G1, G2, G3 and G4
- Groundwater sampling at Goondi has differences with parameters as per table 2 in IPDE00543607 and item 1.A8.C in 5010000172

Would be good to discuss these to obtain further clarity prior to finalising the letter due 12 June.

I appreciate your time and any assistance.

Kind Regards

John Dearlove | Coordinator Environmental Services | Cassowary Coast Regional Council

PO Box 887, Innisfail Qld 4860 T | 40302267 Innisfail or 40439187 Tully

E | john.dearlove@ccrc.qld.gov.au

Mobile : sch4p4(6) Pe



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Date : 30/08/2018 1:47:07 PM

From : "TRELOAR Kirstie"

To : "Dearlove, John"

Cc : "QUICK Calvin" , "MCDONALD Quinn"

Subject : Groundwater Report - Goondi Bend

Attachment : IEMS Groundwater Report.pdf;image001.png;image002.png;image003.jpg;

Hi John,

Looks like you already have this ☺

Thanks,



Kirstie Treloar

A/Team Leader (Assessment)

Minerals and North Region Compliance | Environmental Services & Regulation

Department of Environment and Science

P 07 4222 5212

Level 3, 5B Sheridan Street , Cairns QLD 4870

PO Box 7230, Cairns , QLD 4870



I acknowledge Aboriginal and Torres Strait Islander people as the Traditional Owners of this country, and their connection to land, sea and community.
I pay my respect to all Traditional Owners, and to the Elders past, present and emerging.

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38734

JOHNSTONE SHIRE COUNCIL

INNISFAIL, QUEENSLAND, AUSTRALIA

PLEASE QUOTE

YOUR REFERENCE:

OUR REFERENCE: JDD:KS F 9/4/1

FILE REF: 500232.4

6105

ENQUIRES TO: Mr Dearlove

21 April, 1998

Steve Ducksbury
Acting District Manager
Dept of Environment
PO Box 2066
CAIRNS QLD 4870

Att. Gordon Ewens

Dear Sir

SURFACE AND GROUNDWATER MONITORING PROGRAM

Further to past discussions by yourself and Councils Supervisor Health Mr Dearlove on the implementation of surface and groundwater monitoring programs in accordance to licence conditions at Councils present and proposed waste disposal facilities I forward an assessment of groundwater conditions for the Goondi Bend waste disposal site.

This report for your information has been effected by Mr Herbert a Senior Technical Officer with the Dept of Natural Resources who may be further engaged by Council to provide similar advice for Bells Creek and Stokes Hill sites.

As you are aware Council with your approval opted to finalise an overall water sampling program at the Goondi Bend site prior to undertaking further testing. This assessment is to be encompassed within such and form a basis for the closure and post closure care plans for the site.

Your comment on such would be appreciated.

Yours faithfully

sch4p4(6) Personal information

E.L. McFARLANE
GENERAL MANAGER



An Assessment of Groundwater Conditions

at the

Johnstone Shire Council

Goondi Bend Landfill Site

by

G. C. Herbert

Senior Technical Officer, Groundwater Hydrology

Mareeba

March, 1998

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1.0 INTRODUCTION

The Johnstone Shire Council is required to meet conditions of an 'Environmental Authority,' from the Department of Environment, to operate its' landfill sites in the Shire. Part of these conditions require the establishment of a water quality monitoring network in the vicinity of its' landfill site located at Goondi Bend, north-west of the town of Innisfail.

Council approached the Department of Natural Resources, Mareeba office, for advice regarding the groundwater component of this monitoring. A site inspection was carried out on the 4th March, 1998 and some preliminary advice given.

The purpose of this document is to outline the general hydrogeology of the site, monitoring bore sites and bore construction specifications.

2.0 HYDROGEOLOGY

2.1 Geology

The landfill site is underlain by three geological formations discussed in descending order:-

Johnstone River Alluvium - consisting of fine clayey silts and clays to a minimum depth of 5.0 metres, possibly to a maximum depth of 20.0 metres below ground level. If this formation is still present below 20.0 metres it is likely that beds of medium to coarse sands and gravels will be encountered.

Atherton Basalts - consisting of highly weathered (to clays) and at depth relatively fresh fractured basalts, possibly from depths of 5.0 to 25.0 metres below ground level. This formation has been found in investigation boreholes located to the north and west of the site, but not in a private well 1.5 kilometres to the north-east.

Hodgkinson Formation - consisting in this area of phyllite (metamorphosed shales and mudstones), from depths of around 25.0 metres. This formation usually exhibits a highly weathered, clayey, layer in the top 3 metres or so grading to harder fractured rock with depth.

In summary, the site is located on the eastern extremity of the Atherton Basalts and as such, boreholes may or may not encounter this formation. The presence, or otherwise, of this formation will largely determine the depth of drilling necessary for the monitoring bores.

2.2 Hydrogeology

Each of the above formations has specific hydrological properties attached to it. These properties are summarised in Table 1.

Table 1

FORMATION	AQUIFER TYPE	TRANSMISSIVITY	YIELD
Johnstone River Alluvium	Alluvial clay	Very low	< 0.2 L/sec
	Sands and gravels	High	≥ 10.0 L/sec
Atherton Basalt	Fractured / vesicular basalt	High - very high	> 5.0 L/sec
Hodgkinson Formation	Fractured metamorphic rocks	Low - medium	± 1.0 L/sec

(L/sec - litres per second)

Seasonal variations result in the groundwater levels in the more transmissive materials moving from around one metre to seven metres below natural surface.

Water level hydrographs for bores in the basalt aquifer indicate rapid recharge after rainfall and steady discharge rates during the 'dry season'.

Similar behaviour would be expected in the sand and gravel aquifer.

Variations of water level within the clays, and the deeper metamorphic rocks, would be of less significant magnitude.

The regional groundwater flow pattern grades to the east towards the confluence of the North and South Johnstone Rivers. Locally the flow direction of shallow groundwater would be largely controlled by the network of drains that bound the site and discharge water to the north-east.

2.3 Water Quality

Background water quality in all potential aquifers is generally excellent with total dissolved solids measurements generally less than 80 mg/L and pH ranging from slightly acid (> 5.5) in the basalts to neutral (7.0 - 7.5) in other formations. 'Typical' water quality analyses for alluvial, basalt and metamorphic aquifers can be made available for comparison when sample data from the site become available.

3.0 MONITORING BORE SITES

Six new sites were selected for the initial monitoring program during the inspection on the 4th March, 1998. Use of the existing well as a seventh site may be possible if records of strata and construction detail can be located.

Figure 1 shows suggested monitoring bore locations at the landfill site. These sites are approximate and may be adjusted to allow access for drilling rigs, convenience, safety or other factors that may arise.

CACIA STREET

OPEN DRAIN

OPEN DRAIN

OPEN DRAIN

OPEN DRAIN

EDGE OF RUBBISH

mulch stockpile

car wreck stockpile

fill stockpile

present accessible fill face

Green waste stockpile

EDGE OF RUBBISH

EDGE OF RUBBISH

Engine oil collection tank for recycling

Chemical contained collection point for recycling

Metals stockpile for recycling

glass stockpile for recycling

Aluminium cans

POND

OPEN DRAIN

Tyre Stockpile

Access Area

present hard fill face

SHED

Vehicle wash down Bay

RUGBY
120 x 70

SOCCER
100 x 72

CLUBHOUSE

PIPES

MAHOGANY STREET

OPEN DRAIN

SHED

1x Extra bore
required to the
west of the site
for background data.

FIGURE 1

JOHNSTONE SHIRE COUNCIL
GOONDI BEND LANDFILL
PROPOSED MONITORING
BORE SITES

- SHALLOW BORE
- DEEP BORE
- EXISTING WELL

One further bore will be required at a site located immediately to the west of the landfill to allow determination of background water quality parameters.

4.0 BORE CONSTRUCTION

It is recommended that the first bore, at site 1, be drilled to a depth of around 30 metres to ascertain the entire strata profile under the site. This information will determine the depth necessary for following bores at sites 2 to 6. It is likely that these bores will only require drilling to a depth of around 6 metres.

The sampling parameters listed require the use of specific materials to minimise the risk of contamination, absorption or leaching during and after construction.

Bores should be drilled to a minimum diameter of 150mm and cased with 50mm ID monitoring grade, acid washed, screwed joint PVC casing. The deep bore will require 6 metres, and each of the shallower bores 3 metres, of 0.2mm machine slotted screen constructed from the same material. (Therefore, for seven bores, a minimum of 42 metres of casing and 24 metres of screen plus seven end caps and seven screw on lids, will be required.)

The casing could be purchased direct by Council from the manufacturers (Islex Pty Ltd, Darra, QLD), or supplied by the drilling contractor. It should be specified that the casing be supplied in 3.0 metre lengths for ease of transport and handling.

The annulus between bore hole and casing should be gravel packed with 3.0-5.0mm washed, rounded gravel (not road metal) from the bottom of the hole to just above the top of the screened interval. A layer of coarse sand and a 0.5 metre bentonite plug is placed on top of the gravel and the remainder of the annulus backfilled with cement grout.

The top of each bore should be protected from damage or interference with a lockable bore shield. (These can be provided by this Department at a cost of \$100.00 each.)

Figure 2 illustrates some typical construction layouts for monitoring bores.

5.0 SAMPLING AND SUPERVISION

Field parameters, (electrical conductivity, pH, dissolved oxygen), should be measured from water samples taken while drilling.

The full groundwater sampling regime specified by the Department of Environment requires some specialised equipment and can be carried out on a reasonable fee for service basis by D.N.R staff based at South Johnstone or could be completed by suitably trained and equipped Council personnel.

The drilling of monitoring bores is a specialised field and it is strongly recommended that you engage a suitably qualified person to supervise their construction. Again this Department can provide such personnel or you could engage an appropriate consultant of your choice.

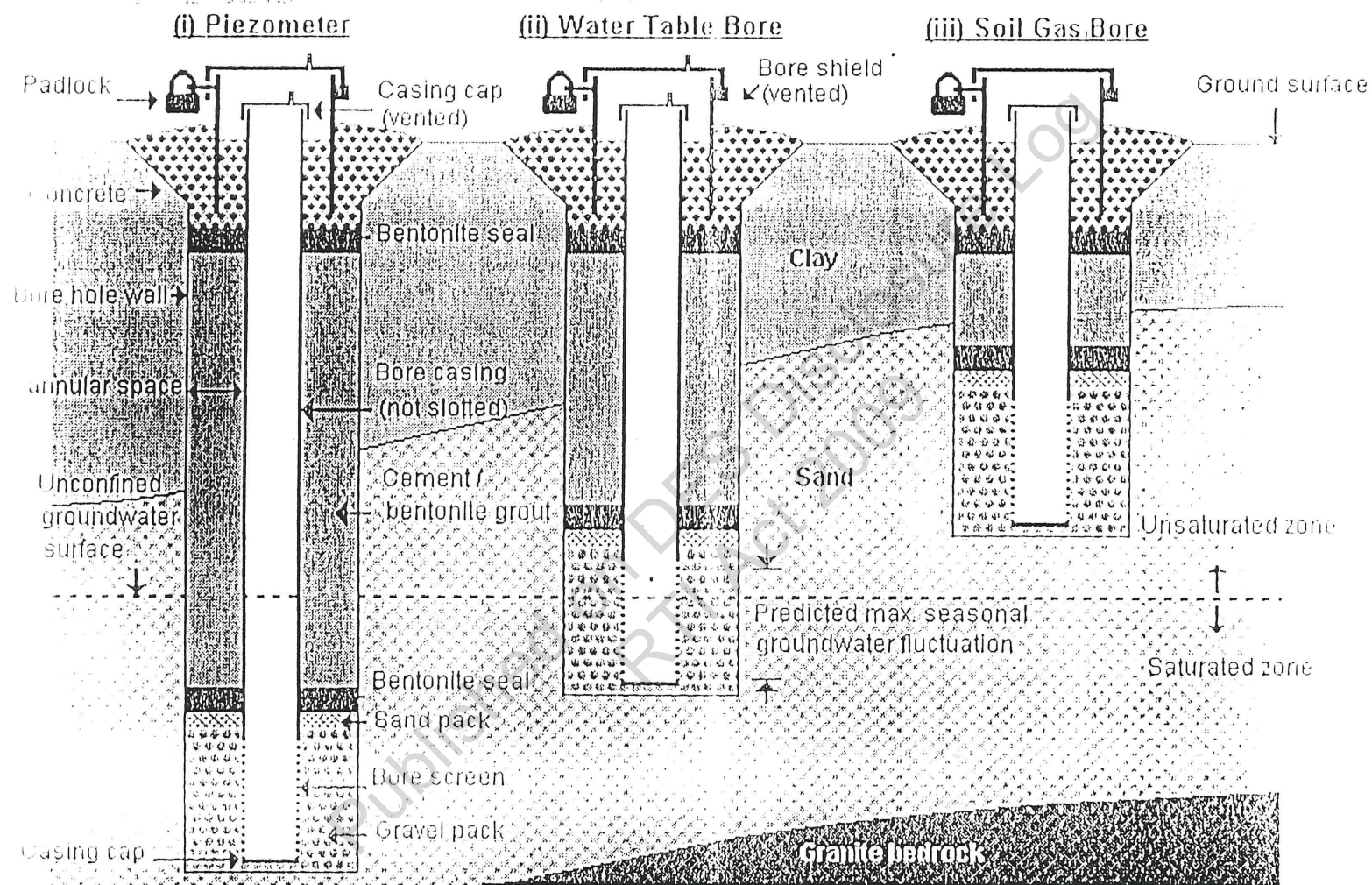


FIGURE 2

Should you require any of the above services from D.N.R please call Mr Graham Herbert at our Mareeba office. (Ph 07 40 922555)

6.0 GENERAL COMMENTS

Discussions and observations during the site inspection suggest that there is a reasonable prospect of encountering relatively impervious clays at a depth of around 5 to 6 metres below natural ground surface. If this is the case it will greatly simplify the construction and monitoring process.

It should however be realised that this is the investigation phase of the assessment and that the first test hole may reveal conditions that require deeper monitoring bores, more specialised drilling and construction techniques and thus greater expense.

This Department has operated a broad scale groundwater level and quality monitoring network in the lower Johnstone catchment since 1987. The data collected suggests that water quality in the catchment is generally excellent but that there may be localised areas where landuse such as farming impacts upon certain parameters.

The possible influence on water quality of external landuse patterns, particularly with regard to ammonia and pesticides, should be given consideration when reviewing guideline values for compliance.

7.0 REFERENCES

Department of Environment. (1997). 'Draft Guidelines for the Establishment of Landfill Monitoring Bores'
(Unpublished Report)

Hair, I.D., 1988. Hydrogeology of the Russell River and Johnstone River Alluvial Valleys, North Queensland.
Geological Survey of Queensland Record.

Date : 22/05/2018 11:18:00 AM

From : "TRELOAR Kirstie"

To : "Dearlove, John"

Cc : "QUICK Calvin"

Subject : Old licence for Goondi Bend Landfill and Bells Creek Landfill - Email 1 of 3

Attachment : Johnstone Shire Council_Licence No_5010000172_Part 5_Goondi Bend
WDF.PDF;image001.png;image002.png;image003.jpg;

Hi John,

As we discussed this morning, please find attached extracts of the Johnstone Shire Council licence. These documents are listed as attachments on a letter soon to be issued to council by the department however due to their size I will not re-send them as attachments with that letter and am sending the three relevant parts via separate emails.

Any questions, happy to discuss.

Kind regards,



Kirstie Treloar

Senior Environmental Officer (Compliance)

Minerals and North Region Compliance | Environmental Services & Regulation

Department of Environment and Science

P 07 4222 5212

Level 3, 5B Sheridan Street, Cairns QLD 4870

PO Box 7230, Cairns, QLD 4870



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5010000172

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Johnstone Shire Council

Section 45(1)

PART 5 - GOONDI BEND WASTE DISPOSAL FACILITY

SCHEDULE 5.A - GENERAL CONDITIONS

Display of Environmental Authority

- (5.A1) A copy of both Part 1 and this part of this environmental authority must be kept in a location readily accessible to personnel carrying out the licensed activity.

Site Based Management Plan

- (5.A2) A copy of the Site Based Management Plan, prepared for the licensed place under the Integrated Environmental Management System, must be kept in a location readily accessible to personnel carrying out the licensed activity.

Closure and Post Closure Care Plan

- (5.A3) By 1 January 1998, the holder of this environmental authority must submit to the administering authority a Closure and Post Closure Care Plan for the licensed place.
- (5.A4) The holder of this environmental authority must cease to receive wastes at the licensed place on or before 1 July 1999.
- (5.A5) The holder of this environmental authority must commence closure activities at the licensed place in accordance with the completed Closure and Post Closure Care Plan on or before 1 July 1998.

Waste Acceptance Criteria

- (5.A6) This environmental authority permits only the following wastes to be received and disposed of at the licensed place;
- (a) construction wastes and demolition waste;
 - (b) asbestos sheeting or other asbestos products;
 - (c) food processing wastes;
 - (d) vehicle washdown water;
 - (e) minor quantities of regulated wastes incidental to and commingled with domestic refuse;
 - (f) car bodies and solid inert waste;
 - (g) putrescible wastes and domestic garbage;
 - (h) green wastes; and
 - (i) furnace and blasting sands only where the total contaminant concentration and the TCLP leach test concentration does not exceed those values listed in schedule 5.A - Table 1

Section 45(1)

Schedule 5.A - Table 1

QUALITY CHARACTERISTICS	MAXIMUM CONTAMINANT LEVEL IN SOLID WASTE (mg/kg)	ALLOWABLE LEACHING CONTAMINANT LEVELS IN UNLINED SITES (mg/L)
Total Zinc	not specified	50.0
Total Cadmium	not specified	0.05
Total Chromium	not specified	0.5
Total Cobalt	not specified	0.5
Total Copper	not specified	10.0
Total Lead	not specified	0.5
Total Mercury	not specified	0.01
Total Molybdenum	not specified	0.1
Total Nickel	not specified	0.5
Fluoride	not specified	15.0
Phenol	100	1.0

- (5.A7) The holder of this environmental authority must submit to the administering authority with the annual return the quantity (by mass) of wastes specified in Table 1 of Schedule 5.A received for disposal at the licensed place during the period of that annual return.

Note:

- (a) paper covered plasterboard must only be received at the licensed place if it is generated by construction and demolition activities and delivered to the licensed place as part of a mixed load of materials; and
 - (b) disposal of contaminated soils may be permitted at the licensed place where disposal is specifically authorised by the administering authority for the purpose of administering the *Contaminated Land Act 1991* or its successor; and
 - (c) car bodies and other large metal objects for recycling may be received and temporarily stored at the licensed place; and
 - (d) drums containing any residual regulated wastes are themselves a regulated waste and must not be accepted for disposal at the site unless they have been triple rinsed, steam cleaned or thoroughly cleaned.
- (5.A8) This environmental authority permits only the following regulated wastes to be received and stored at the licensed place:
- (a) wet cell batteries; or
 - (b) waste oil; or
 - (c) regulated waste containers; or
 - (d) tyres.

Wastes Prohibited for Disposal

- (5.A9) Notwithstanding condition number (5.A6), the following wastes must not be disposed of on the licensed place:

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Johnstone Shire Council

Section 45(1)

- (a) pyrophoric wastes (where co-disposed with other potentially combustible material); or
- (b) untreated infectious wastes, pharmaceutical wastes, pathogenic wastes and cytotoxic wastes; or
- (c) explosives and ammunition, pyrotechnics or propellants, apart from trace residues no longer capable of supporting combustion or an explosive reaction; or
- (d) liquescent waste streams or any waste capable of yielding free liquids; or
- (e) regulated wastes other than those specified under condition number (5.A6).

END OF CONDITIONS FOR SCHEDULE 5.A

SCHEDULE 5.B - AIR

Landfill Gas

- (5.B1) Where landfill gas monitoring program identifies migration of landfill gas in concentrations greater than 25% of the lower explosive limit for methane a landfill gas extraction, collection and disposal system must be installed into the waste disposal facility so as to prevent or minimise:
 - (a) landfill gas migration through any perimeter embankment; and
 - (b) any uncontrolled emission of landfill gas to the atmosphere.
- (5.B2) Landfill gas collected by the landfill gas collection system referred to in condition (5.B1) may only be disposed of:
 - (a) by passive venting to the atmosphere through gas diffusers; or
 - (b) flared prior to release to the atmosphere; or
 - (c) reused.

Landfill Gas in Useable Confined Spaces

- (5.B3) An effective gas extraction and collection system must be installed into any confined useable space or building where the landfill gas monitoring program detects landfill gas in concentrations greater than 25% of the lower explosive limit for methane in useable confined spaces and buildings other than the gas control units or parts thereof.

Dust Control

- (5.B4) Any stockpiles of inert cover material must be managed so as to minimise wind blown dust emissions.
- (5.B5) The holder of this environmental authority must ensure that all wastes accepted onto the licensed place are handled, disposed of or stockpiled in such a way as to minimise dust generation.

END OF CONDITIONS FOR SCHEDULE 5.B

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SCHEDULE 5.C - WATER

- (5.C1) Leachate generated on the licensed place and stormwater runoff which may contact wastes or contaminants on the licensed place must not be released to any land beyond the boundary of the licensed place stormwater drain, roadside gutters or waters.

END OF CONDITIONS FOR SCHEDULE 5.C

SCHEDULE 5.D - STORMWATER MANAGEMENT

Stormwater Diversion

- (5.D1) A system of suitable diversion drains or embankments must be constructed and maintained to divert surface waters away from any area of the licensed place where contact with wastes or contaminants may occur. Particular attention must be paid to any:
- (a) active waste disposal area; and
 - (b) waste storage areas; and
 - (c) area previously used for waste disposal; and
 - (d) leachate collection ponds (if applicable).

END OF CONDITIONS FOR SCHEDULE 5.D

SCHEDULE 5.E - LAND APPLICATION

- (5.E1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 5.E

SCHEDULE 5.F - NOISE

- (5.F1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 5.F

SCHEDULE 5.G - WASTE MANAGEMENT

Supervision

- (5.G1) The holder of this environmental authority must ensure that, at all times while the licensed place is open, at least one person is present who is responsible for ensuring that only wastes permitted under this environmental authority are received and deposited at the licensed place.

Construction of Future Waste Disposal Areas

- (5.G2) The holder of this environmental authority must ensure the base and embankments of future waste disposal cells are constructed with :
- (a) at least 0.6 metres of compacted earthen material achieving a maximum hydraulic conductivity when in place, of no greater than 1×10^{-9} metres per second or a clay geosynthetic liner achieving a maximum hydraulic conductivity in place of no greater than 1×10^{-9} metres per second; and

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- (b) a leachate collection system consisting of permeable solid material and appropriate reticulation piping and sumps capable of intercepting leachate so as to effectively limit the level of leachate above the base of any future waste disposal area to 0.3 metres.
- (5.G3) The holder of this environmental authority must ensure any future waste disposal cell installed on the licensed place is constructed with ramps to allow plant and machinery access to the cell so that wastes can be effectively consolidated and covered.

Construction of Disposal Areas Embankments

- (5.G4) Where an active disposal cell or any part thereof is installed above ground, the embankments must be maintained so as to ensure their stability and integrity of construction.

Removal of Cover Material

- (5.G5) Where waste is to be disposed of on an area previously used for waste disposal, existing cover material must be ripped or removed so as to allow leachate and contaminated stormwater to percolate through the wastes deposited below.

Leachate Management

- (5.G6) The holder of this environmental authority must ensure that all reasonable and practical measures are taken to operate and manage any area used for waste disposal activities so as to minimise the generation of leachate.

Leachate Collection System

- (5.G7) Any leachate and contaminated stormwater migrating from perimeter embankments of any waste disposal area or leachate storage pond must be effectively intercepted by a leachate collection system installed at the licensed place.
- (5.G8) The holder of this environmental authority must ensure that any leachate or contaminated stormwater intercepted by the leachate collection system installed at the licensed place is:
 - (a) conveyed to leachate storage pond or dam or tank, or
 - (b) disposed of in accordance with condition number (5.G14).

Leachate Storage Ponds

- (5.G9) The holder of this environmental authority must ensure that any leachate storage facility installed at the licensed place is constructed and managed so that a freeboard capable of preventing overspill is maintained at all times.
- (5.G10) Where a leachate storage facility or any part thereof is installed above ground, the perimeter embankments must be maintained to ensure the stability and integrity of construction.
- (5.G11) The base and embankments of any future leachate storage or treatment pond or dam installed on the licensed place must be lined up to the maximum storage level with at least 0.6 metres of compacted earthen material achieving an in situ maximum hydraulic conductivity, of no greater than 1×10^{-9} metres per second overlain by a joined and sealed flexible membrane liner achieving an maximum hydraulic conductivity, when in place, of no greater than 1×10^{-10} metres per second.

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5010000172

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Leachate Storage Tank

- (5.G12) The holder of this environmental authority must ensure any leachate storage tank installed on the licensed place is constructed so as to be leak proof and managed so that a freeboard capable of preventing overspill is maintained at all times.
- (5.G13) Where any leachate storage tank or any part thereof is installed above ground on the licensed place, the base and sidewalls must be maintained to ensure their stability and integrity.

Leachate Disposal

- (5.G14) Leachate or contaminated stormwater generated on the licensed place and conveyed to a leachate storage pond may be disposed of by any of the following methods:
- (a) by evaporation in a pond on the licensed place; or
 - (b) by recirculation back into the areas of the licensed place where waste disposal is currently taking place; or
 - (c) by irrigation over exposed wastes on the licensed place; or
 - (d) to sewer under Johnstone Shire Council's Trade Waste Policy.
- (5.G15) Leachate must not be disposed of on the surface of any areas of the licensed place that have received their final cover of topsoil or any revegetated areas unless the quality of the leachate is such that it will not cause any environmental harm through soil contamination or damage to vegetation.

Leachate Evaporation

- (5.G16) The holder of this environmental authority must ensure any pond used for evaporation of leachate is:
- (a) located in an unshaded area of the licensed place previously used for waste disposal and constructed on an area of the licensed place which has been capped in accordance with this environmental authority and constructed to effectively minimise the release of leachate through the base and embankments; and
 - (b) constructed so as to promote evaporation of leachate; and
 - (a) operated and managed so as to prevent overspill occurring at any time when the leachate is being evaporated.

Active Waste Disposal Area Management

- (5.G17) The holder of this environmental authority must take effective measures to ensure that all wastes accepted for disposal at the licensed place are not disposed of:
- (a) beyond any area designated in the Site Development Plan for the disposal of wastes; and
 - (b) into waters or leachate collected at the base of any active waste disposal area; and
 - (c) beyond the catchment of any leachate collection drains installed as part of a leachate collection system.

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- (5.G18) All large metal articles received for disposal must be effectively compacted before being deposited at the base of any active waste disposal area.

Covering of Wastes

- (5.G19) Waste deposited on the operating face of any active waste disposal area must be covered at the end of every operating day or at more frequent intervals if necessary, with a layer of inert earthen material or other incombustible inert material where the covering of the wastes must at least:
- (a) prevent exposure of covered wastes;
 - (b) minimise the quantity of wind blown litter;
 - (c) prevent the access of flies, rodents, or other animals to covered wastes; and
 - (d) minimise the propagation of odours from deposited waste.

Mechanical Plant

- (5.G20) The operating face of any active waste disposal area must be consolidated, compacted by mechanical plant of a weight and type so as to prevent or minimise:
- (a) the quantity of wind blown litter;
 - (b) ingress of air and water; and
 - (c) to minimise differential settlement.
- (5.G21) Mechanical plant must be capable of covering wastes deposited on any operating face with an inert non combustable material so as to ensure compliance with this environmental authority.

Access Roads

- (5.G22) The holder of this environmental authority must ensure all weather access roads are constructed and maintained so that at all times whilst the licensed place is open for receipt of wastes, vehicles have access to any operating face.
- (5.G23) The holder of this environmental authority must ensure that access roads are constructed and maintained so as to minimise dirt and mud being carried off the licensed place by vehicles leaving the licensed place.

Tyre Storage

- (5.G24) Waste tyres may be stored in temporary above ground heaps on the licensed place provided that there are no more than 500 waste tyres at any time in any one (1) heap.
- (5.G25) Where there is more than one (1) heap of waste tyres, a separation distance between the heaps or other methods must be established and maintained so as to effectively prevent fire from spreading:
- (a) from one (1) tyre storage heap to another; and
 - (b) to other waste stored or disposed of at the licensed place.

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Battery Storage

- (5.G26) Used wet cell batteries may only be temporarily stored on the licensed place in:
- (a) the area designated for this purpose; and
 - (b) a covered enclosure which has been bunded to contain spillages and leakages.

Oil Storage

- (5.G27) Used oil may be temporarily stored in drums or other containers at the licensed place, provided that the drums or containers:
- (a) are stored in the area designated for this purpose; and
 - (b) are bunded to contain spillages and leakages; and
 - (c) are securely sealed when full to prevent rainwater entry and spillage (if knocked over); and
 - (d) have a filling mechanism which prevents rainwater entry.

Vehicle Washdown Waters

- (5.G28) The holder of this environmental authority must ensure that any vehicle washdown waters generated on the licensed place are either intercepted and:
- (a) conveyed to the leachate storage dam or pond or tank, or
 - (b) disposed of in accordance with condition number (5.G14).

Regulated Waste Containers

- (5.G29) Regulated waste containers received at the licensed place which have not been triple rinsed, pressure rinsed or have not been thoroughly cleaned must only be temporarily stored in an area:
- (a) designated for this purpose; and
 - (b) bunded in accordance with the conditions of this environmental authority.

Disposal of Asbestos Wastes

- (5.G30) All asbestos wastes received for disposal at the licensed place must be disposed of at a location within the landfill which is at least two (2) metres below the final contour of the completed waste disposal area and not less than two (2) metres in from the batters or flanks of any above ground waste deposition. The asbestos must be covered as soon as practicable after being deposited at that location.
- (5.G31) The holder of this environmental authority must ensure the location of any area of the licensed place used to dispose of asbestos waste is marked on the site development plan as soon as practicable after disposal has taken place.

Disposal of Treated Infectious Waste

- (5.G32) Infectious wastes which have been treated to a standard so as to ensure a 99.9999% reduction rate in viable spores per 100g (maximum) and 0 (nil) parasitic and viral agents may be disposed of and covered, under supervision, as soon as practicable after the waste is deposited.

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- (5.G33) The holder of this environmental authority must ensure treated infectious wastes is disposed of and covered in accordance with this environmental authority, under supervision, in an area of the licensed place designated for this purpose on the Site Development Plan.

Record Keeping

- (5.G34) The holder of this environmental authority must keep and maintain records for every load of regulated waste accepted for disposal at the licensed place, and must include the following information:
- (a) date of acceptance;
 - (b) description of waste;
 - (c) cross reference to relevant waste transport documentation;
 - (d) quantity of waste;
 - (e) origin of the waste;
 - (f) results of analysis (where applicable).

Signs

- (5.G35) The holder of this environmental authority must cause signs, maintained in good repair and giving the following information, to be erected at the entrance to the site and/or in prominent locations on the licensed place:
- (a) the name of the licensed place contact telephone number (where applicable);
 - (b) the hours and days the licensed place will be open for receiving wastes;
 - (c) the waste is permitted to be received at the licensed place;
 - (d) advise that when the site is closed to the public that unauthorised dumping of waste is prohibited (citing the penalty);
 - (e) prohibition of the lighting unauthorised of fires on the licensed place; and
 - (f) directing traffic to the location of the active waste disposal area and recycling area; and
 - (g) prohibiting smoking on any area of the licensed place where landfill gas has been detected in concentrations greater than 25% of the lower explosive limit for methane.

Litter Control

- (5.G36) Relocatable litter screens or wind deflectors must be provided and maintained at any active waste disposal area and arranged so as to confine windblown litter generated by the disposal of wastes to the operating face.

Fencing

- (5.G37) Fences and gates must be erected and maintained at the licensed place so as to prevent:
- (a) unauthorised vehicle access to any area of the licensed place used for waste disposal which has not received final cover; and
 - (b) unauthorised access to any waste storage area; and

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- (c) unauthorised access to any area or structures installed on the licensed place where landfill gas has been detected in concentrations greater than 25% of the lower explosive limit for methane; and
 - (d) the escape of waste materials onto adjoining land.
- (5.G38) The holder of this environmental authority must ensure all gates to the licensed place are kept closed except during official operating hours.

Fire Control

- (5.G39) The holder of this environmental authority must establish and maintain a fire break(s) so as to prevent fire spreading from:
- (a) the licensed place to adjoining land; and
 - (b) adjoining land to the licensed place; and
 - (c) one (1) area of the licensed place to another.
- (5.G40) In the event of any fire occurring at the licensed place, the holder of this environmental authority must extinguish the fire, when it is safe to do so.

Public Health Issues

- (5.G41) The holder of this environmental authority must make provision to ensure that the operation of the waste disposal facility does not create a public health problem. The holder of this environmental authority must carry out any works required by the administering authority to prevent or abate any public health problem or nuisance which may arise as a result of the operation of the licensed place.
- (5.G42) The holder of this environmental authority must take all practical measures to ensure that the environmentally relevant activity is conducted at all times in a nuisance free manner, particularly regarding fly breeding, mosquito breeding and rat harbourage and breeding.

Final Cover and Rehabilitation

- (5.G43) Any completed waste disposal area must be capped with low permeability material and compacted so as to effectively minimise infiltration of stormwater.
- (5.G44) Soils or geosynthetic membrane liner(s) or other material(s) used to construct the capping of any waste disposal area must achieve a maximum in situ hydraulic conductivity of no greater than 1×10^{-8} metres per second.
- (5.G45) Any completed and capped waste disposal area must be progressively covered to a depth of at least 250 millimetres with clean earth capable of supporting shallow rooted vegetation. A thicker top soil may be necessary to support deeper rooted vegetation and also to prevent root penetration of the cap.
- (5.G46) The final surface of any completed waste disposal area must, after covering as specified in condition number (5.G46) be graded, drained and vegetated so as to:
- (a) minimise soil erosion;
 - (b) divert clean stormwater away from completed disposal trenches; and
 - (c) prevent stormwater ponding.

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- (5.G47) In the areas awaiting rehabilitation or those in the process of being rehabilitated, vehicle access must be restricted by suitable barriers to prevent surface disturbance.

END OF CONDITIONS FOR SCHEDULE 5.G

SCHEDULE 5.H - MONITORING AND REPORTING

- (5.H1) Nil conditions.

END OF CONDITIONS FOR SCHEDULE 5.H

SCHEDULE 5.I - DEFINITIONS

- (5.I1) "active waste disposal area" means an area currently being used for the disposal of wastes accepted under a condition of this environmental authority and includes all or part of a disposal area.
- (5.I2) "licensed place" in this part of this environmental authority means the Goondi Bend Waste Disposal Facility on Lot 28, CP845192 located at Leichhardt Street Innisfail Qld 4860.

END OF CONDITIONS FOR SCHEDULE 5.I

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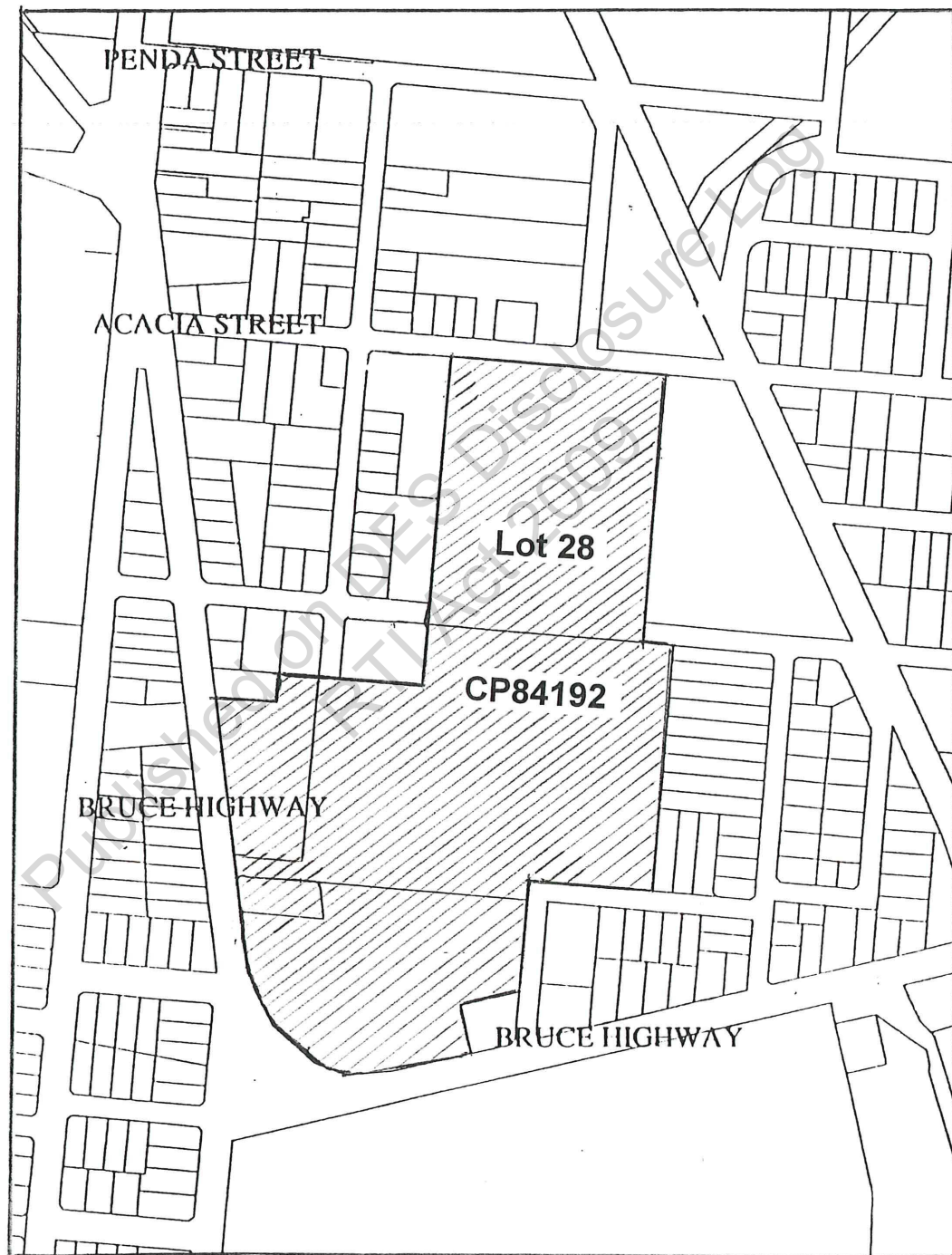
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SCHEDULE 5.J - SITE PLAN

(5.J1) Goondi Bend Waste Disposal Facility



END OF CONDITIONS FOR SCHEDULE 5J.

Date : 22/05/2018 12:06:32 PM

From : "TRELOAR Kirstie"

To : "Hammond, Gavin" , "Dearlove, John"

Cc : "QUICK Calvin"

Subject : Post Compliance Inspection letter - Goondi Bend Landfill

Attachment : cl-fm-notifiable-activity-notification.docx;Letter with Attachment 1.pdf;image001.png;image005.png;image006.jpg;

Hi Gavin and John,

Please find attached departmental correspondence regarding the recent compliance inspection of Goondi Bend Landfill. Attachment 3 has been sent by separate email to John Dearlove.

Kind regards,



Kirstie Treloar

Senior Environmental Officer (Compliance)

Minerals and North Region Compliance | Environmental Services & Regulation

Department of Environment and Science

P 07 4222 5212

Level 3, 5B Sheridan Street, Cairns QLD 4870

PO Box 7230, Cairns, QLD 4870



I acknowledge Aboriginal and Torres Strait Islander people as the Traditional Owners of this country, and their connection to land, sea and community.

I pay my respect to all Traditional Owners, and to the Elders past, present and emerging.

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RTI Act 2009

Environmental Protection Act 1994

Notifiable Activity

This is the template is for use by land owners, occupiers, auditors or local government authorities when giving written notice to the administering authority that a notifiable activity has been, or is being, carried out on land under section s.320A of the Environmental Protection Act 1994 (the EP Act).

Please complete all fields below. You can use this template to provide notification of multiple land parcels and/or multiple instances of a notifiable activity. Where this is the case, please clearly identify which land parcel or notifiable activity the information relates to.

GUIDE

Please ensure that all information is current and correct.

In some circumstances the duty to notify about a notifiable activity may arise for a number of different people.

In such circumstances a number of persons may comply with their individual duty to notify by jointly providing this notice.

Lot and plan details can be obtained from the land title certificate, rates notice or your local government (local council).

If you do not know the lot and plan, please provide sufficient information about the land to enable it to be identified.

1. Details of person(s) giving notice

- ☐ I am the **owner** of the land
- ☐ I am the **occupier** of the land (e.g. tenant)
- ☐ I am a representative of the **local government authority** for the land
- ☐ I am an **auditor** performing an auditor's function for the land
- ☐ A joint notification is being provided by more than 1 person, the details of each person are attached.

FULL NAME	TITLE
COMPANY/ORGANISATION/LOCAL GOVERNMENT AUTHORITY	
POSTAL ADDRESS	POSTCODE
PHONE	FAX
EMAIL	

2. Details of land subject to the notification

STREET ADDRESS

This should be a map, aerial photograph or GPS coordinates (e.g. MGA-Easting/Northing or GDA-Latitude/Longitude) which illustrate the actual location of the notifiable activity and any potential contamination on the property.

Notifiable activities are listed in Schedule 3 of the EP Act.

Example

14 Engine reconditioning works—carrying out engine reconditioning work at a place where more than 500 litre (L) of any of the following are stored:

- (a) halogenated and non-halogenated hydrocarbon solvents
- (b) dangerous goods in class 6.1 under the dangerous goods code
- (c) industrial degreasing solutions.

Where relevant state the subtype(s), the actual volume being stored/used/manufactured/disposed etc and other specifics about the activity

More information about notifiable activities can be found on the Queensland Government website www.qld.gov.au

LOCAL/PROPERTY NAME (IF APPLICABLE)

LOT ON PLAN

LOCAL GOVERNMENT AUTHORITY

3. Map, locality plan or GPS coordinates

Provide a map, locality plan or GPS coordinates of the location of the notifiable activity

- ☐ Map attached
- ☐ Locality plan attached
- ☐ GPS coordinates provided below

4. Details of notifiable activity

If providing notification of multiple notifiable activities, provide answers to each of the questions below for each notifiable activity. Additional information can be included as attachments.

- ☐ The details of multiple notifiable activities are attached.

State the number and subtype of the activity as listed in Schedule 3 of the *Environmental Protection Act 1994*

When did the notifiable activity commence?

Month:

Year:

Is the notifiable activity still being carried out?

☐ Yes

☐ No

If no, when did the notifiable activity cease?

Month:

Year:

Specific details of the notifiable activity (i.e. threshold amounts, type(s) of chemicals of dangerous goods being stored on the site)

Actual volume(s) (where applicable)

5. Evidence and supporting information

Examples of the types of evidence that could be provided include (but are not limited to):

- If any investigation of the nature and extent of contamination has been undertaken on the site, provide details of the method used, sampling results and any recommendations about the future management of the contamination. If a written report about the contamination is available, please provide a copy of the report and maps where available.
- Any licences or approvals issued relevant to the activity being notified, for example licence or approvals under the EP Act or the Flammable and Combustible Liquids Regulation 1994.
- Evidence of relevant notifiable activities that are being or have been carried out on the land, e.g. business documentation outlining the activities being undertaken on the site or photographs of industrial activities.
- The results of any compliance monitoring done in relation to notifiable activities or possible contamination of the site.

PROVIDE DETAILS OF EVIDENCE AND SUPPORTING INFORMATION INCLUDING TITLES OF ANY ATTACHMENTS

If you are not the landowner, provide the details of the owner of the property (if known).

6. Details of land owner

FULL NAME		TITLE
POSTAL ADDRESS		POSTCODE
PHONE	FAX	
EMAIL		

If a joint notification is being provided by more than one person a signed declaration by each person must be attached.

7. Declaration

I declare that:

- The information I have provided within this form is true and correct to the best of my knowledge.
- I understand that all information within or attached to this written notice may be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.
- I understand that it is an offence under section 480 of the *Environmental Protection Act 1994* to give the administering authority a document containing information that I know is false, misleading or incomplete in a material particular.

NAME

SIGNATURE

DATE

Please submit this notice using one of the following methods:

Email: emr.clr.registry@ehp.qld.gov.au

The email subject line should state 'Written notice of a notifiable activity'.

The file size limit for submission via e-mail is 14MB. Any submission via email which exceeds 14 MB will need to be broken down into separate emails, with each email clearly Part X of X (e.g. Part 1 of 2), included in the subject line of the email.

Post to:

Permit and Licence Management
Department of Environment and Heritage
Protection
GPO Box 2454
BRISBANE QLD 4001

Courier or hand delivery to:

Permit and Licence Management
Department of Environment and Heritage
Protection
Level 3, 400 George Street
BRISBANE QLD 4001
Hours: 8.30am–5.00 pm business days

Privacy Statement

The Department of Environment and Heritage Protection (EHP) is assessing information provided on this form as notified under Section 320A of the *Environmental Protection Act 1994* to make a determination whether a site is to be listed on the Environmental Management Register (EMR). This register is publically available. This information may be provided to other parties, including the owner of land, the local government authority and other government departments, under Chapter 7, Part 8 of the *Environmental Protection Act 1994* for the purposes of including land in a relevant land register. The information provided on this form will not otherwise be used or disclosed unless required or authorised by law. For queries about privacy matters email: privacy@ehp.qld.gov.au or telephone: (07) 3330 6270.



Ref CA49839; IPDE00543607A11; ENRE00629207; 101/0010235

Department of
Environment and Science

22 May 2018

Cassowary Coast Regional Council
70 Rankin Street
INNISFAIL, QLD 4860

cc. Cassowary Coast Regional Council
PO Box 887
INNISFAIL, QLD 4860

Attention: Chief Executive Officer
Attention: Gavin Hammond

[By Email: gavin.hammond@ccrc.qld.gov.au]

Compliance inspection, Cassowary Coast Regional Council's waste disposal activities at Goondi Bend Landfill – 21 March 2018

I refer to the compliance inspection of Cassowary Coast Regional Councils (CCRC) waste disposal activity at Mahogany St, GOONDI BEND conducted on 21 March 2018 in the presence of Jim Straker and Gavin Hammond and conducted by the Department of Environment and Science (the department). As you are aware, the purpose of the inspection was to evaluate compliance with conditions prescribed in the environmental authority (EA) which is comprised of ENRE00629207 and IPDE00543607A11 and the *Environmental Protection Act 1994* (the Act).

The department has identified several alleged non-compliance(s) of the EA, as detailed in **Attachment 1 - Table 1 Alleged non-compliances**.

With respect to the non-compliances identified in Table 1, you are invited to arrange for written representation to be provided to the department outlining why Council should not be subject to compliance action. That written response should include the following:

- Any mitigating circumstances that may have led to the alleged contravention of conditions; and
- submissions must be made in writing and sent via email to Kirstie.treloar@des.qld.gov.au and estownsville@des.qld.gov.au;
- submissions must be made by **12 June 2018**.

The department will consider any response received when determining what compliance action should be taken in relation to this matter.

As you may be aware, the department has a responsibility to respond to any non-compliance with legislative requirements under the Act. In the event of non-compliance with the Act and environmental performance standards, the department has the ability to use a

number of enforcement tools including Penalty Infringement Notices and prosecution in accordance with its enforcement guidelines. A copy of the enforcement guidelines is available on the department's website www.ehp.qld.gov.au.

Areas of concern

During the inspection, authorised persons observed a number of matters of concern which are outlined in Table 2 below for your attention. It is recommended that you take action to address these matters of concern to ensure continued compliance with Council's EA and the general environmental duty as detailed in section 319 of the Act.

Table 2: Areas of concern

Issue identified	Relevant conditions/section of legislation	Description
Notice of notifiable activity occurring to be made to the Environmental Management Register (EMR)	<i>Environmental Protection Act 1994</i> , Chapter 7, Part 1, Division 2, s320 Schedule 3, Item 20	<p>Lot 28 on CP845192 is not currently listed on the EMR for the notifiable activity of landfilling.</p> <p>Landfilling (other than disposing of inert construction and demolition waste) is known to have historically occurred on at least part of the Lot on Plan.</p> <p>As the trustee and the occupier of the affected land you have a duty under section 320DA of the Act to give the department written notice of the activity.</p> <p>Please find the relevant form attached (Attachment 2).</p>
Administrative matters with the environmental authority	<i>Environmental Protection Act 1994</i> , s319	<p>As part of this inspection, the department has undertaken a comprehensive desktop review of historical files and has the following recommendations.</p> <p>a) It is recommended that CCRC apply to the department for an amalgamation of the EA for the Goondi Bend Landfill (ENRE00629207 and IPDE00543607A11) with the CCRC</p>

		<p>integrated local government authority EPPR01428213.</p> <p>b) It is evident that conditions from superseded Licence No. 5010000172 (Attachment 3) held by the former Johnstone Shire Council for the closed landfills of Goondi Bend Waste Disposal Facility (Cells 1, 2 and 3, 28/CP845192) and Bells Creek Waste Disposal Facility (480/CP881723) have not been transferred to the integrated local government authority EPPR01428213 held by CCRC.</p> <p>There is mention of the last waste being accepted at the Goondi Hill landfill in 1999, but there is no record of final closure and/or surrender of these sites from the licence.</p> <p>CCRC are requested to provide evidence of final closure of these sites and subsequent surrender from the licence.</p> <p>In the absence of evidence showing approved surrender of the sites, the department recommends that CCRC include reinstatement of these conditions in an EA amendment application.</p> <p>In the interim, in accordance with the general environmental duty, CCRC should ensure that post closure care and maintenance of these closed landfills is occurring.</p> <p>It is recommended that CCRC contact the department's Industry and Development Assessment team to arrange a pre-lodgement meeting either by email</p>
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		palm@des.qld.gov.au or by phone on 1300 130 372 (option 4).
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It is requested that a written response be submitted to the department by **12 June 2018** outlining how the areas of concern identified will be addressed and what measures will be implemented, including timeframes.

The department would like to thank you for your time and assistance with the compliance inspection and looks forward to a prompt resolution of the matters raised. Should you have any queries in relation to this letter, please contact Kirstie Treloar, Senior Environmental Officer on (07) 4222 5212.

Yours sincerely,
sch4p4(6) Personal information



Mark Cavicchiolo
Compliance Delivery Manager
Environmental Services and Regulation
Department of Environment and Science

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Attachment 1 – Table 1 Alleged non-compliances

Issue identified	Relevant condition(s) / section of legislation	Description
Proper landfill cap not installed	A1G2, A1G8 s430 of the Act	<p>The conditions require that all waste disposal areas at the site shall be capped with a minimum of 500 mm of low permeability compacted clay or equivalent to achieve a hydraulic conductivity (K) of 1×10^{-8} m/s, covered by a 200-300 mm soil sub base, and 150 mm of topsoil/mulch capable of sustaining vegetation and by 31 July 2007.</p> <p>A search of the department's files cannot find any evidence of installation of the final landfill cap as designed and presented in Appendix B of the document <i>"Goondi Bend Landfill Final Closure and Post Closure Plan"</i>, Golders Associates, October 2009.</p> <p>There is correspondence from CCRC that suggests the landfill waste area in Cell 3 and part of Cell 2 was covered with approximately one metre of fill material of unknown characteristics.</p> <p>Prior to the inspection, CCRC were requested to provide information on the installation of the landfill cap. No information was provided.</p> <p>It is alleged that CCRC have contravened conditions A1G2 and A1G8 of the EA by failing to cap the waste disposal areas in accordance with the requirements of the EA.</p>
Post-closure care of the landfill	A1G9	<p>The condition requires post-closure care of the landfill to be undertaken for a period of 30 years, or a shorter period until the landfill unit and surrounding site are geo-technically stable and that no release of waste materials, leachate, landfill gas or other contaminants to the environment is likely.</p> <p>Departmental records show that the landfill ceased accepting waste for in-situ waste disposal in 2007.</p> <p>The site has not been demonstrated to fit the criteria for a shorter care period.</p>

		<p>CCRC stated in correspondence to the department dated 17 March 2010 that weekly inspections would be conducted during the wet season, and fortnightly inspections during the dry season.</p> <p>Post-closure care of the landfill has not been occurring over recent years in accordance with the <i>"Goondi Bend Landfill Final Closure and Post Closure Plan"</i>, Golders Associates, October 2009.</p> <p>Slumping/uneven ground causing ponding was observed on top of the landfill landform.</p> <p>During the inspection CCRC staff advised that the routine inspections had not been occurring.</p> <p>It is alleged that CCRC have contravened condition A1G9 of the EA by failing to conduct the required environmental monitoring and undertake routine inspections of the landfill site.</p>
Site Management Plan (SMP)	<p>A1G10, s430 of the Act</p> <p>Chapter 7, Part 8, Division 5 of the Act as in force on 28 February 2007 (Reprint No. 7B)</p>	<p>The condition requires development of a SMP pursuant to contaminated land provisions of the legislation in effect at the date that the EA became effective. It also requires the SMP to be provided to the administering authority.</p> <p>The legislation referenced can be found on the Queensland Legislation website at https://www.legislation.qld.gov.au/</p> <p>The landfill has been closed with the final waste deposited in 2007.</p> <p>A search of departmental records has shown that no SMP, pursuant to the contaminated land provisions of the Act, has been developed and provided to the administering authority.</p> <p>It is alleged that CCRC have contravened condition A1G10 of the EA by failing to develop and provide a SMP.</p>
Landfill gas monitoring	A1A3, s430 of the Act	<p>The condition requires landfill gas monitoring to be performed every three months.</p>

		<p>Prior to the inspection landfill gas monitoring records were requested by the department.</p> <p>No records were provided.</p> <p>CCRC staff advised during the inspection that landfill gas monitoring had not been occurring.</p> <p>It is alleged that CCRC have contravened condition A1A3 of the EA by failing to conduct landfill gas monitoring at the prescribed frequency of every three months.</p>
Discharge Point Surface Water monitoring	A1W4(b), s430 of the Act	<p>The condition requires monthly monitoring of discharged waters, for the prescribed parameters, at the authorised release point.</p> <p>In-situ waste disposal activities ceased in 2007 (30 March 2007).</p> <p>Surface water monitoring records were requested by the department prior to the inspection. Some records were provided. Surface water monitoring was last undertaken on 30 July 2012.</p> <p>It is alleged that CCRC have contravened condition A1W4(b) of the EA by failing to monitor surface discharge waters monthly at the authorised release point.</p>
Contaminant release to surface waters	A1W8, s430 of the Act	<p>The condition requires that contaminants other than settled/treated stormwater runoff waters must not be released from the site to surface waters or the bed or banks of surface waters.</p> <p>The authorised release point discharges to an open drain which then continues on in a north north-easterly direction before entering the Warrina Lakes wetlands and eventually the North Johnstone River.</p> <p>Following the inspection, departmental officers collected water quality samples from the authorised discharge location G3.</p>

		<p>In-situ and NATA analysis of those samples shows that the waters being released contained contaminant concentrations of Ammonia (0.83mg/L), DO (51.7% saturation), pH (5.70), total Iron (0.78 mg/L), and dissolved Nickel 0.002 mg/L).</p> <p>It is alleged that CCRC have contravened condition A1W8 of the EA by releasing prescribed water contaminants from the site to surface waters.</p>
Groundwater monitoring program	A1W10, s430 of the Act	<p>The condition requires:</p> <ul style="list-style-type: none"> (b) monitoring to be conducted at all groundwater monitoring bores at least every three months. (e) assessment of the monitoring results and if necessary notification to the department. (f) annual submission of results with the annual return for the integrated authority. <p>The department requested groundwater monitoring data prior to the inspection. CCRC provided only surface water monitoring data.</p> <p>No recent notifications regarding groundwater results have been received by the department.</p> <p>It is alleged that CCRC has contravened condition A1W10 of the EA by failing to monitor groundwater, every three months, at the prescribed locations, for the prescribed water quality characteristics, and by consequently failing to submit an annual groundwater report with the annual return.</p>
Surface Water monitoring program	A1W11, A1W12, A1W13, s430 of the Act	<p>The condition requires a surface water monitoring program to be developed and implemented for the site.</p> <p>There is evidence of a surface water monitoring program that includes locations within the perimeter drains of the site.</p> <p>The conditions require that surface water quality monitoring must include at least the quality characteristics prescribed by the EA.</p>

		<p>The conditions require that surface water quality samples must be collected from the sample points in accordance with the surface water monitoring program at least every three months when there is flow in the watercourse.</p> <p>Prior to the inspection, CCRC were requested to provide surface water monitoring records to the department. Some records were provided. Surface water monitoring was last undertaken on 30 July 2012.</p> <p>It is alleged that CCRC have contravened conditions A1W11, A1W12 and A1W13 of the EA by failing to implement the surface water monitoring program that was developed.</p>
Continuation of surface water monitoring post closure and provision of an annual report.	A1W14, s430 of the Act	<p>The condition requires continued monitoring for thirty years post-closure of the site, collation of monitoring results and submission of an annual report to the administering authority.</p> <p>No annual monitoring reports have been received in the last eight years.</p> <p>It is alleged that CCRC have contravened condition A1W14 of the EA by failing to continue the surface water monitoring program and submit annual reports.</p>

Date : 28/09/2018 9:13:09 AM
From : "QUICK Calvin"
To : "TRELOAR Kirstie" , "Dearlove, John"
Cc : "MCDONALD Quinn"
Subject : RE: Goondi bend landfill
Attachment : image001.png;image005.png;image006.png;image007.jpg;image008.png;image009.jpg;

Hi John,

I'm happy to organise a time to come down and visit. I will have a better idea about dates over the next couple of weeks and will touch base then.

s.73

Thanks,
Calvin.



Calvin Quick
Senior Environmental Officer (Compliance)
Minerals & North Queensland Compliance | Environmental Services & Regulation
Department of Environment and Science
P 07 4222 5161 E calvin.quick@des.qld.gov.au W www.des.qld.gov.au
Level 3, 5B Sheridan Street, Cairns Qld 4870
PO Box 7230, Cairns Qld 4870



Authorised Person under the *Environmental Protection Act 1994*, *Coastal Protection and Management Act 1995*, *Queensland Heritage Act 1992*, *Waste Reduction and Recycling Act 2011*

From: TRELOAR Kirstie
Sent: Tuesday, 25 September 2018 5:34 PM
To: Dearlove, John <John.Dearlove@ccrc.qld.gov.au>; QUICK Calvin <Calvin.Quick@des.qld.gov.au>
Cc: MCDONALD Quinn <Quinn.McDonald@des.qld.gov.au>
Subject: RE: Goondi bend landfill

Hi John,

s.73

s.73 Calvin is out of the office this week on other inspections and I imagine that he will respond to you regarding this matter on his return to the office.

Kind regards,



Kirstie Treloar
A/Team Leader (Assessment)
Minerals and North Region Compliance | Environmental Services & Regulation
Department of Environment and Science
P 07 4222 5212
Level 3, 5B Sheridan Street, Cairns QLD 4870
PO Box 7230, Cairns, QLD 4870



I acknowledge Aboriginal and Torres Strait Islander people as the Traditional Owners of this country, and their connection to land, sea and community. I pay my respect to all Traditional Owners, and to the Elders past, present and emerging.

From: Dearlove, John [<mailto:John.Dearlove@ccrc.qld.gov.au>]
Sent: Tuesday, 25 September 2018 4:39 PM
To: QUICK Calvin <Calvin.Quick@des.qld.gov.au>; TRELOAR Kirstie <Kirstie.Treloar@des.qld.gov.au>
Subject: Goondi bend landfill

Hi Calvin and Kirstie,

Hope all is going safe & well for you both ☺

We have undertaken a good deal of works to clear site and drain vegetation and be in a position to inspect along with drone surveying of the entire site including the Bourkes boundary and drain alignment.

Accordingly would you like to schedule a visit at some stage so we can mutually assess site status and discuss any requirements to progress site closure and the range of monitoring being undertaken. Gas monitoring is one that we would particularly like to resolve.

s.73

Kind Regards

John Dearlove

Coordinator Environmental Services | Cassowary Coast Regional Council

P: 07 40302267 (Innisfail) or 403439187 (Tully) sch4p4(6) Personal in

E: john.dearlove@ccrc.qld.gov.au W: www.cassowarycoast.qld.gov.au

PO Box 887, Innisfail QLD 4860



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RTI Act 2009

Date : 30/08/2018 2:14:06 PM
From : "Dearlove, John"
To : "TRELOAR Kirstie"
Subject : RE: Groundwater Report - Goondi Bend
Attachment : image001.png;image004.png;image005.jpg;118083014141301027.jpg;

Thanks Kirstie, interesting that details contain my handwriting as well. Until you sent this we were unable to find it given, 2x cyclones, Council amalgamation, various archiving and records management changes and 10 years whereby I was not here. so thanks for that.

Regards John D.

From: TRELOAR Kirstie [mailto:Kirstie.Treloar@des.qld.gov.au]
Sent: Thursday, 30 August 2018 1:47 PM
To: Dearlove, John <John.Dearlove@ccrc.qld.gov.au>
Cc: QUICK Calvin <Calvin.Quick@des.qld.gov.au>; MCDONALD Quinn <Quinn.McDonald@des.qld.gov.au>
Subject: Groundwater Report - Goondi Bend

Hi John,

Looks like you already have this ☺

Thanks,



Kirstie Treloar
A/Team Leader (Assessment)
Minerals and North Region Compliance | Environmental Services & Regulation
Department of Environment and Science
P 07 4222 5212
Level 3, 5B Sheridan Street, Cairns QLD 4870
PO Box 7230, Cairns, QLD 4870



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Date : 13/06/2018 10:21:59 AM

From : "TRELOAR Kirstie"

To : "Hammond, Gavin"

Cc : "Dearlove, John"

BCc : "QUICK Calvin"

Subject : RE: Post Compliance Inspection letter - Goondi Bend Landfill

Attachment : image001.png;image004.png;image005.jpg;image006.png;image007.jpg;image008.jpg;

Hi Gavin and John,

Thank you for your response. I will review the material you have provided to me and be in touch soon to make arrangements for a teleconference to discuss the matter.

Kind regards,



Kirstie Treloar

Senior Environmental Officer (Compliance)

Minerals and North Region Compliance | Environmental Services & Regulation

Department of Environment and Science

P 07 4222 5212

Level 3, 5B Sheridan Street, Cairns QLD 4870

PO Box 7230, Cairns, QLD 4870



From: Hammond, Gavin [mailto:Gavin.Hammond@ccrc.qld.gov.au]

Sent: Tuesday, 12 June 2018 4:42 PM

To: TRELOAR Kirstie <Kirstie.Treloar@des.qld.gov.au>

Cc: Dearlove, John <John.Dearlove@ccrc.qld.gov.au>

Subject: RE: Post Compliance Inspection letter - Goondi Bend Landfill

Kirstie

Further to your email of the 22nd May.

I have attached a letter of response and a link to a large number of files that will provide evidence of our work.

https://cassowarycoast-my.sharepoint.com/:f:/g/personal/jordan_crawford_ccrc_qld_gov_au/EnxHNyS_w3tEhsP3zmpYm4gBc4EeBKJKRlnVNgoAMKJKag?e=Qp2nR9

If I can assist any further with the queries you raised, please don't hesitate to call.

Regards,

Gavin Hammond | Manager Regulatory Services | Cassowary Coast Regional Council

PO Box 887, Innisfail Qld 4860 | T 07 4043 8839 (Innisfail) 07 4043 9139 (Tully) | [sch4p4\(6\) Pers](#)

E | gavin.hammond@ccrc.qld.gov.au W | cassowarycoast.qld.gov.au

From: TRELOAR Kirstie [mailto:Kirstie.Treloar@des.qld.gov.au]

Sent: Tuesday, 22 May 2018 12:07 PM

To: Hammond, Gavin <Gavin.Hammond@ccrc.qld.gov.au>; Dearlove, John <John.Dearlove@ccrc.qld.gov.au>

Cc: QUICK Calvin <Calvin.Quick@des.qld.gov.au>

Subject: Post Compliance Inspection letter - Goondi Bend Landfill

Hi Gavin and John,

Please find attached departmental correspondence regarding the recent compliance inspection of Goondi Bend Landfill. Attachment 3 has been sent by separate email to John Dearlove.

Kind regards,



Kirstie Treloar

Senior Environmental Officer (Compliance)

Minerals and North Region Compliance | Environmental Services & Regulation

Department of Environment and Science

P 07 4222 5212

Level 3, 5B Sheridan Street, Cairns QLD 4870

PO Box 7230, Cairns, QLD 4870



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I pay my respect to all Traditional Owners, and to the Elders past, present and emerging.

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Published on 15/05/2019
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Date : 12/06/2018 4:41:59 PM
From : "Hammond, Gavin"
To : "TRELOAR Kirstie"
Cc : "Dearlove, John"
Subject : RE: Post Compliance Inspection letter - Goondi Bend Landfill
Attachment : DES response letter June 2018.pdf;FW: Written notice of a notifiable activity;image001.png;image002.png;image003.jpg;118061216422400983.jpg;

Kirstie

Further to your email of the 22nd May.

I have attached a letter of response and a link to a large number of files that will provide evidence of our work.

https://cassowarycoast-my.sharepoint.com/:f:/g/personal/jordan_crawford_ccrc_qld_gov_au/EnxHNyS_w3tEhsP3zmpYm4gBc4EeBKJKRlnVNgoAMKJKag?e=Qp2nR9

If I can assist any further with the queries you raised, please don't hesitate to call.

Regards,

Gavin Hammond | Manager Regulatory Services | Cassowary Coast Regional Council

PO Box 887, Innisfail Qld 4860 | T 07 4043 8839 (Innisfail) 07 4043 9139 (Tully) | sch4p4(6) Pers
E | gavin.hammond@ccrc.qld.gov.au W | cassowarycoast.qld.gov.au

From: TRELOAR Kirstie [mailto:Kirstie.Treloar@des.qld.gov.au]
Sent: Tuesday, 22 May 2018 12:07 PM
To: Hammond, Gavin <Gavin.Hammond@ccrc.qld.gov.au>; Dearlove, John <John.Dearlove@ccrc.qld.gov.au>
Cc: QUICK Calvin <Calvin.Quick@des.qld.gov.au>
Subject: Post Compliance Inspection letter - Goondi Bend Landfill

Hi Gavin and John,

Please find attached departmental correspondence regarding the recent compliance inspection of Goondi Bend Landfill. Attachment 3 has been sent by separate email to John Dearlove.

Kind regards,



Kirstie Treloar
Senior Environmental Officer (Compliance)
Minerals and North Region Compliance | Environmental Services & Regulation
Department of Environment and Science
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Date : 18/04/2018 9:21:10 AM
From : "QUICK Calvin"
To : "Dearlove, John"
Cc : "TRELOAR Kirstie"
Subject : RE: Tully Main Refuse Site
Attachment : image001.png;image003.jpg;image004.png;image005.jpg;image006.png;

No problem John.

While you have the opportunity it would also be worthwhile to get your IT expert to find any information that you have regarding the capping for Goondi Bend Landfill – cells 1, 2 and 3. We understand that there was a final capping design approved in 2009 and we have correspondence that funding for it was unavailable in 2011. This will be information that will be asked in the post inspection letter from the Goondi Bend inspection which isn't finalised yet. s.73

Thanks,
Calvin.



Calvin Quick
Senior Environmental Officer (Compliance)
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Level 3, 5B Sheridan Street, Cairns Qld 4870
PO Box 7230, Cairns Qld 4870



From: Dearlove, John [mailto:John.Dearlove@ccrc.qld.gov.au]
Sent: Tuesday, 17 April 2018 4:32 PM
To: QUICK Calvin <Calvin.Quick@des.qld.gov.au>
Subject: RE: Tully Main Refuse Site

Many thanks Calvin, most appreciated ☺

Kind Regards

John Dearlove | Coordinator Environmental Services | Cassowary Coast Regional Council
PO Box 887, Innisfail Qld 4860 T | 40302267 Innisfail or 40439187 Tully
E | john.dearlove@ccrc.qld.gov.au
Mobile : sch4p4(6) Pers

From: QUICK Calvin [mailto:Calvin.Quick@des.qld.gov.au]
Sent: Tuesday, 17 April 2018 3:29 PM
To: Dearlove, John <John.Dearlove@ccrc.qld.gov.au>
Subject: Tully Main Refuse Site

Hi John,

Some of the information that is available regarding Tully Main Refuse Site and annual reports.

Regards,
Calvin.



Calvin Quick
Senior Environmental Officer (Compliance)
Minerals & North Queensland Compliance | Environmental Services & Regulation
Department of Environment and Science
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