Information Notice

Environmental Protection Act 1994

Notice of decision to grant a soil disposal permit with conditions

This information notice is issued by the administering authority in accordance with section 424(5/ of the Environmental Protection Act 1994 *(EP Act) to advise you of the decision to grant your application for a soil disposal permit, but to impose conditions on the permit, and to inform you of the reasons for the decision and your review and appeal rights.*

21 April 2016
Our reference: 440052 (CLEB05788216)

Brisbane City Council
PO Box 1434
BRISBANE QLD 4001

Dear Tim George, (tim.george@brisbane.qld.gov.au)

Re: Application to remove and dispose of contaminated soil from 7 Wellington Road, East Brisbane Queensland (Lot(s) 1 & 29 on RP51249)

Decision

The administering authority has considered your application received on 18 April 2016 and decided to grant the application but to impose conditions on the permit.

Reasons for the decision

The granting of the permit subject to the conditions imposed is consistent with the standard criteria defined in Schedule 4 of the *Environmental Protection Act 1994* (EP Act).

Assessment criteria used in making the decision

In accordance with section 424(4) of the EP Act in making its decision to grant the application for a disposal permit the administering authority has considered the standard criteria listed in Schedule 4 of the EP Act including:

- best practice environmental management for removal treatment and disposal of contaminated soil
- any applicable environmental protection policy
- any applicable site investigation report or validation report or site management plan
- any applicable Commonwealth, State or local government plans, standards, agreements or requirements.

[1] Section 424 continues to have effect under section 739 of the EP Act.

Findings as a result of the administering authority's assessment of the application

The information provided in the disposal permit application is sufficient to justify the disposal of the soil

Information considered by the administering authority in making its determination

Information provided in the application submitted by Brisbane City Council including:

- Application Form
- Analysis Results
- Letter of Acceptance provided by Cleanaway dated 14 April 2016 stating they are willing to accept approximately **1000m^3** of contaminated soil from 7 Wellington Road, East Brisbane Queensland (Lot(s) 1 & 29 on RP51249) **to** Lined Landfill Disposal at Cleanaway located at 100 Chum Street, New Chum (Lot 268 on SP103913 and Lot 227 on SP103913).

Review and appeal details

You may apply for an internal review of this decision under Chapter 11, Part 3 Division 2 of the EP Act. In accordance with section 521 of the EP Act the application must be:

1. made to the administering authority within 10 business days after receipt of this notice and be supported by enough information for the administering authority to decide the application
2. made to the administering authority in the approved form *Application for review of original decision* (EM709), which is available at www.qld.gov.au using the publication number EM709 as a search term. The completed form must be sent to the address on the form.
3. be supported by enough information to enable the authority to decide the application.

Should you have any questions in relation to this matter, please contact Allen Johns Waste & Contaminated Land on 3330 5694.

sch4p4(6) Personal information

Signature

21/4/2016

Date

Enquiries:

Allen Johns
Ph: (07) 33305694
Waste and Contaminated Land Assessment
Department of Environment and Heritage Protection.
Level 8, 400 George Street
Brisbane QLD 4001

Email: allen.johns@ehp.qld.gov.au

Allen Johns
Delegate of the Chief Executive
Environmental Protection Act 1994

SOIL DISPOSAL PERMIT

Environmental Protection Act 1994 (EP Act)

Disposal permit number: CLEB05788216

Commencement date: 21 April 2016

Expiry Date: 21 April 2017

Permit Holder: Brisbane City Council

Authorised activity: Removal and disposal of approximately **1000m^3** of contaminated soil from 7 Wellington Road, East Brisbane Queensland (Lot(s) 1 & 29 on RP51249) to Lined Landfill Disposal at Cleanaway located at 100 Chum Street, New Chum (Lot 268 on SP103913 and Lot 227 on SP103913).

Maximum volume: **1000m^3**

This disposal permit is subject to the conditions endorsed hereon or attached hereto in Schedule A.

sch4p4(6) Personal information

Signature

21/4/2016

Date

Allen Johns
Delegate of the Chief Executive
Environmental Protection Act 1994

Enquiries:

Allen Johns – (07) 33305694

Waste and Contaminated Land Assessment
Department of Environment and Heritage Protection
Level 8, 400 George Street
GPO Box 2454
Brisbane QLD 4001
Phone 13 QGOV (13 74 68)
Email allen.johns@ehp.qld.gov.au

Schedule A - Conditions

1. Records of soil removal, treatment and disposal authorised under this permit must be kept for a period of no less than seven years and be available to the administering authority by request. The information to be kept in the records must include:

   a. the quantity of material disposed; and

   b. acceptance receipts from the waste disposal/treatment facility.

2. The permit holder must provide a copy of the permit to any person acting under the permit.

3. Contaminated soil must not be released to air, land or water during excavation, loading, storage, treatment and transport of the soil in a manner that causes environmental harm.

From: JOHNS Allen
To: "Tim George"
Subject: RE: AR086408 Soil Disposal Permit
Date: Thursday, 21 April 2016 12:54:00 PM
Attachments: johnsa_21-04-2016_12-49-53.pdf
image006.png
image007.png
image008.gif
image009.png
image010.png
image011.png
image012.jpg

Hi Tim,

Please find attached an approval for a soil disposal permit. If you have any questions please call.

Allen Johns
Principal Environmental Officer
Waste and Contaminated Land | Industry & Development Assessment
Department of Environment and Heritage Protection

P 07 3330 5694
Level 8, 400 George Street Brisbane Q 4000
GPO Box 2454 Brisbane Q 4001
Please consider the environment before printing this email

From: Tim George [mailto:Tim.George@brisbane.qld.gov.au]
Sent: Friday, 15 April 2016 12:00 PM
To: PALM
Subject: AR086408 Soil Disposal Permit

Good Afternoon,

Please find attached an application (including all relevant forms and certificates) for a soil disposal permit at 7 Wellington Road, East Brisbane.

If you require any further information please do not hesitate to contact me.

Regards

Tim George
Environmental Scientist | Contaminated Land Services | Planning and Design
City Projects Office | Brisbane Infrastructure | **BRISBANE CITY COUNCIL**

Green Square | Level 1, 505 St Pauls Tce, Fortitude Valley, QLD 4006
07 3178 8958 | 07 3334 0071
› tim.george@brisbane.qld.gov.au

Please consider the environment before printing this email.

Information Notice

Environmental Protection Act 1994

Notice of decision to grant a soil disposal permit with conditions

This information notice is issued by the administering authority in accordance with section 424(5)[1] *of the* Environmental Protection Act 1994 *(EP Act) to advise you of the decision to grant your application for a soil disposal permit, but to impose conditions on the permit, and to inform you of the reasons for the decision and your review and appeal rights.*

21 April 2016
Our reference: 440052 (CLEB05788216)

Brisbane City Council
PO Box 1434
BRISBANE QLD 4001

Dear Tim George, (tim.george@brisbane.qld.gov.au)

Re: Application to remove and dispose of contaminated soil from 7 Wellington Road, East Brisbane Queensland (Lot(s) 1 & 29 on RP51249)

Decision

The administering authority has considered your application received on 18 April 2016 and decided to grant the application but to impose conditions on the permit.

Reasons for the decision

The granting of the permit subject to the conditions imposed is consistent with the standard criteria defined in Schedule 4 of the *Environmental Protection Act 1994* (EP Act).

Assessment criteria used in making the decision

In accordance with section 424(4) of the EP Act in making its decision to grant the application for a disposal permit the administering authority has considered the standard criteria listed in Schedule 4 of the EP Act including:

- best practice environmental management for removal treatment and disposal of contaminated soil
- any applicable environmental protection policy
- any applicable site investigation report or validation report or site management plan
- any applicable Commonwealth, State or local government plans, standards, agreements or requirements.

[1] Section 424 continues to have effect under section 739 of the EP Act.

Findings as a result of the administering authority's assessment of the application

The information provided in the disposal permit application is sufficient to justify the disposal of the soil

Information considered by the administering authority in making its determination

Information provided in the application submitted by Brisbane City Council including:

- Application Form
- Analysis Results
- Letter of Acceptance provided by Cleanaway dated 14 April 2016 stating they are willing to accept approximately **1000m^3** of contaminated soil from 7 Wellington Road, East Brisbane Queensland (Lot(s) 1 & 29 on RP51249) **to** Lined Landfill Disposal at Cleanaway located at 100 Chum Street, New Chum (Lot 268 on SP103913 and Lot 227 on SP103913).

Review and appeal details

You may apply for an internal review of this decision under Chapter 11, Part 3 Division 2 of the EP Act. In accordance with section 521 of the EP Act the application must be:

1. made to the administering authority within 10 business days after receipt of this notice and be supported by enough information for the administering authority to decide the application
2. made to the administering authority in the approved form *Application for review of original decision* (EM709), which is available at www.qld.gov.au using the publication number EM709 as a search term. The completed form must be sent to the address on the form.
3. be supported by enough information to enable the authority to decide the application.

Should you have any questions in relation to this matter, please contact Allen Johns Waste & Contaminated Land on 3330 5694.

sch4p4(6) Personal information

Signature

21/4/2016

Date

Enquiries:

Allen Johns
Ph: (07) 33305694
Waste and Contaminated Land Assessment
Department of Environment and Heritage Protection.
Level 8, 400 George Street
Brisbane QLD 4001

Email: allen.johns@ehp.qld.gov.au

Allen Johns
Delegate of the Chief Executive
Environmental Protection Act 1994

SOIL DISPOSAL PERMIT

Environmental Protection Act 1994 (EP Act)

Disposal permit number: CLEB05788216

Commencement date: 21 April 2016

Expiry Date: 21 April 2017

Permit Holder: Brisbane City Council

Authorised activity: Removal and disposal of approximately **1000m^3** of contaminated soil from 7 Wellington Road, East Brisbane Queensland (Lot(s) 1 & 29 on RP51249) to Lined Landfill Disposal at Cleanaway located at 100 Chum Street, New Chum (Lot 268 on SP103913 and Lot 227 on SP103913).

Maximum volume: **1000m^3**

This disposal permit is subject to the conditions endorsed hereon or attached hereto in Schedule A.

sch4p4(6) Personal information

Signature

21/4/2016

Date

Allen Johns
Delegate of the Chief Executive
Environmental Protection Act 1994

Enquiries:

Allen Johns – (07) 33305694

Waste and Contaminated Land Assessment
Department of Environment and Heritage Protection
Level 8, 400 George Street
GPO Box 2454
Brisbane QLD 4001
Phone 13 QGOV (13 74 68)
Email allen.johns@ehp.qld.gov.au

Schedule A - Conditions

1. Records of soil removal, treatment and disposal authorised under this permit must be kept for a period of no less than seven years and be available to the administering authority by request. The information to be kept in the records must include:

    a. the quantity of material disposed; and

    b. acceptance receipts from the waste disposal/treatment facility.

2. The permit holder must provide a copy of the permit to any person acting under the permit.

3. Contaminated soil must not be released to air, land or water during excavation, loading, storage, treatment and transport of the soil in a manner that causes environmental harm.

Jose Orellana

From: JOHNS Allen
Sent: Thursday, 21 April 2016 12:54 PM
To: 'Tim George'
Subject: RE: AR086408 Soil Disposal Permit
Attachments: johnsa_21-04-2016_12-49-53.pdf

Hi Tim,

Please find attached an approval for a soil disposal permit. If you have any questions please call.

Allen Johns
Principal Environmental Officer
Waste and Contaminated Land | Industry & Development Assessment
Department of Environment and Heritage Protection

P 07 3330 5694
Level 8, 400 George Street Brisbane Q 4000
GPO Box 2454 Brisbane Q 4001
Please consider the environment before printing this email

From: Tim George [mailto:Tim.George@brisbane.qld.gov.au]
Sent: Friday, 15 April 2016 12:00 PM
To: PALM
Subject: AR086408 Soil Disposal Permit

Good Afternoon,

Please find attached an application (including all relevant forms and certificates) for a soil disposal permit at 7 Wellington Road, East Brisbane.

If you require any further information please do not hesitate to contact me.

Regards

Tim George
Environmental Scientist | Contaminated Land Services | Planning and Design
City Projects Office | Brisbane Infrastructure | **BRISBANE CITY COUNCIL**

Green Square | Level 1, 505 St Pauls Tce, Fortitude Valley, QLD 4006
07 3178 8958 | 07 3334 0071
tim.george@brisbane.qld.gov.au

Please consider the environment before printing this email.

SECURITY LABEL: FOR OFFICIAL USE ONLY

Jose Orellana

From: Tim George <Tim.George@brisbane.qld.gov.au>
Sent: Friday, 15 April 2016 12:00 PM
To: PALM
Subject: AR086408 Soil Disposal Permit
Attachments: Soil Disposal Permit Application - 7 Wellington Road.pdf

Good Afternoon,

Please find attached an application (including all relevant forms and certificates) for a soil disposal permit at 7 Wellington Road, East Brisbane.

If you require any further information please do not hesitate to contact me.

Regards

Tim George
Environmental Scientist | Contaminated Land Services | Planning and Design
City Projects Office | Brisbane Infrastructure | **BRISBANE CITY COUNCIL**

Green Square | Level 1, 505 St Pauls Tce, Fortitude Valley, QLD 4006
07 3178 8958 | 07 3334 0071
tim.george@brisbane.qld.gov.au


Please consider the environment before printing this email.

SECURITY LABEL: FOR OFFICIAL USE ONLY

Phone *direct*: 07 317 88958
Fax *direct*: 07 333 40071
Email: Tim.George@brisbane.qld.gov.au

Brisbane Infrastructure
City Design
Level 1 Green Square 505 St Pauls Terrace
Fortitude Valley Qld 4006
GPO Box 1434 Brisbane Qld 4001
T 07 3027 4725 F 07 3334 0071

15 April 2016

Permit and Licence Management
Department of Environment and Heritage Protection
GPO Box 2454
Brisbane Queensland 4001

Re: CONTAMINATED SOIL DISPOSAL PERMIT

Brisbane City Council (BCC) is proposing to undertake redevelopment works at 7 Wellington Road, East Brisbane. During this work approximately 1000m^3 of material requiring off-site disposal is anticipated to be generated. 7 Wellington Road is currently listed on the Environmental Management Register (EMR) for the Notifiable Activity of *'Hazardous Contaminant'* and is shown within *Figure 1* attached.

In-situ sampling to characterise the underlying soil profile was undertaken across the site in accordance with *AS4482.1 Guide to the investigation and sampling of sites with potentially contaminated soil*. Six boreholes were advanced to a maximum depth of four metres below ground level and representative sampling of the soil profile undertaken. Collected samples were placed in pre-treated 250mL glass jars, sealed and individually labelled prior to placement on ice in a cooler. Samples were recorded on a chain of custody form and dispatched to a NATA accredited laboratory for analysis of heavy metals, Total Recoverable Hydrocarbons (TRH), benzene, toluene, ethylbenzene, xylenes, naphthalene (BTEXN) and polycyclic aromatic hydrocarbons (PAH).

Analysis of the sampled material returned concentrations of arsenic, copper, lead, nickel, zinc and Benzo(a)pyrene in excess of adopted investigation guidelines. Due to the size of the site there is no suitable location where the material can either be treated or re-used on site. BCC has approval to dispose of the material at the Cleanaway facility located at New Chum and is submitting the attached application for a Contaminated Soil Disposal Permit.

I trust this information is sufficient, should you have any questions or require further information please contact either myself on 3178 8958 or Erik Dekker on 3027 4725.

Regards,

4p4(6) Personal informa

Tim George

Environmental Scientist
Contaminated Land Services - City Projects Office

Attachments:

Attachment A: Application for a disposal permit for contaminated soil;
Attachment A: Written acceptance from Cleanaway and Certificate of Title;
Attachment B: Site location and sample locations; and
Attachment C: Laboratory results summary tables and certificates of analysis.

Application form

Environmental Protection Act 1994

Application for a disposal permit for contaminated soil

OFFICIAL USE ONLY

DATE RECEIVED

FILE REF

PROJECT REF

DATE

This is the approved form for making an application to the administering authority for a disposal permit to treat or dispose of contaminated soil from land recorded in the environmental management register (EMR) or contaminated land register (CLR). The application is made under s.424[1] ***(as continued under s.739)*** *of the* Environmental Protection Act 1994 *(EP Act).*

Note: A soil disposal permit is not required when removing clean soil from a site listed on the EMR or CLR.

1. Applicant details

FULL NAME	TITLE
COMPANY/ REGISTERED LEGAL ENTITY NAME (IF APPLICABLE) Brisbane City Council	
REGISTERED ADDRESS GPO Box 1434, Brisbane QLD. Green Square South Tower, 505 St Pauls Terrace, Fortitude Valley	POSTCODE 4001
PHONE 3178 4066	FAX 3334 0071
EMAIL	
POSTAL ADDRESS (WRITE 'AS ABOVE' IF THE SAME AS REGISTERED ADDRESS)	POSTCODE

CONTACT PERSON FOR COMPANY/ REGISTERED LEGAL ENTITY (IF APPLICABLE) Tim George

[1] S. 424 continues to have effect in accordance with s. 739 of the EP Act and can be found in the superseded version of the EP Act available at https://www.legislation.qld.gov.au/LEGISLTN/SUPERSED/E/EnvProtA94_150710.pdf

ABN 46 640 294 485

POSITION Environmental Scientist	
PHONE 3178 8958	FAX 3334 0071
EMAIL tim.george@brisbane.qld.gov.au	

A soil disposal permit can only be approved where the site from which the soil is being removed is listed on the EMR or CLR.

For further information about how land is listed on the registers refer to the information available at the Queensland Government website:

http://www.qld.gov.au/environment/pollution/management/contaminated-land/

2. Site location

Please provide details of site(s) the soil is proposed to be removed **from.**

FULL STREET ADDRESS OF SITE(S) 7 Wellington Road, East Brisbane	
LOT(S) 1 & 29	PLAN(S) RP51249
LOCAL GOVERNMENT AREA Brisbane City Council	

3. Certificate of title

Please provide a copy of the current Certificate of Title for the land.

☒ Certificate of title attached

It is better to overestimate the amount of soil to be removed. If the limit is reached before the disposal is complete, a new disposal permit will be required.

4. Soil volume

What is the approximate volume (in cubic metres) of soil to be removed (allowing for excavation bulking)?

<ENTER THE SOIL VOLUME IN CUBIC METRES> 1000m3

Soil disposal permits only authorise the disposal of soil for the term stated on the disposal permit. The standard period is one year.

5. Disposal period

What are the dates between which soil is proposed to be moved to the disposal or treatment location?

FROM DATE: 16 April 2016	TO DATE: 16 April 2017

The application must be accompanied by the written

6. Disposal location

acceptance of the local government authority or registered owner of the site which will receive the soil. The written acceptance must:

- state the amount of soil and the type of contaminates present in the soil; and
- confirm that the soil can be lawfully received under the conditions of the environmental authority for the facility (if being taken to a landfill facility)

If the soil is being disposed at a non- local government administered landfill or another parcel of land on the EMR/CLR, a copy of the Certificate of Title must be provided.

What is the proposed disposal location?

a. ☐ Local government administered waste disposal or treatment facility

NAME AND ADDRESS OF LOCAL GOVERNMENT ADMINISTERED LANDFILL

☐ Written acceptance from the local government authority is attached.

b. ☒ Non-local government-administered waste disposal or treatment facility

LOT(S) 268	PLAN(S) SP103913
FULL STREET ADDRESS OF SITE(S) 100 Chum Street, New Chum, 4303	

☒ Written acceptance from registered owner of site is attached.

☒ Certificate of title is attached

c. ☐ Another parcel of land which is listed on the EMR or CLR

EMR/CLR ID	
LOT(S)	PLAN(S)
FULL STREET ADDRESS OF SITE(S)	

☐ Written acceptance from registered owner of site is attached.

☐ Certificate of title is attached.

Disposal to landfill should only be considered where no other method of dealing with the contaminated soil is available or viable.

7. Management options

State reason(s) why on-site/off-site treatment or management is not proposed.

<PROVIDE REASONS> No appropriate area is available for management or re-use of the impacted soil due to the size of site.

8. Sampling

Is it proposed to undertake validation sampling to confirm that all soil has been removed?

☐ Yes

☒ No

9. Soil contamination

Provide a description of the contamination present in the soil to be removed.

<PROVIDE DESCRIPTION>
PAH, and heavy metal impacted soil exceeded adopted investigation guidelines (refer attached results summary tables and laboratory results certificates).

10. Required supporting information

Please tick relevant boxes below to indicate that you have attached the following information with this application and list the relevant attachments.

If a site investigation report is being submitted simultaneously to the administering authority, refer to the relevant sections of that report otherwise copies must be provided of all laboratory reports for contaminated soil analyses and leachate testing results.

A previously submitted site investigation report may be referred to, provided it is still relevant and accurate.

Soil sampling needs to be completed in accordance with Schedule B2 of the National Environment Protection (Assessment of Site Contamination) Measure 1999.

Required information	**Name of attachment containing the required information** (if the required information can be found in an attached site investigation report provide the title, version and section number for the report)
Scaled plan showing soil sampling locations and contamination source(s)	Figure 1
Tabulation of soil analysis results	Results Tables - Table 1 - 4
Toxicity Characteristic Leaching Procedure (TCLP) results from relevant soil samples	Results Tables - Table 5
Copies of all laboratory reports and sample receipt advices for all soil analysis	Laboratory Results Certificates

Explanation of location and depths of samples, how samples were collected, and how sample integrity was maintained	Cover Letter

11. Declaration

Note: If you have not told the truth in this application you may be liable for prosecution under the relevant Acts or Regulations.

- I do solemnly and sincerely declare that all information supplied on or with this application is true and correct to the best of my knowledge.
- I understand that it is an offence under s.480 of the *Environmental Protection Act 1994* to give to the administering authority or an authorised person a document containing information that I know to be false, misleading or incomplete in a material particular; and
- I understand that all information supplied on or with this application form may be disclosed publicly in accordance with the *Right to Information Act 2009* and the *Evidence Act 1977*.

APPLICANT NAME
Tim George

SIGNATURE OFINDIVIDUAL APPLICANT OR AUTHORISED SIGNATORY
4(6) Personal infor

DATE
15 April 2016

Applicant checklist

☒ Application form completed and signed (this form)

☒ Certificate of title attached (refer question 3)

☒ Written acceptance from disposal location attached (refer question 6)

☒ Certificate of title for disposal location attached where applicable (refer question 6)

☒ Required supporting information attached (or referenced in site investigation report) (refer question 10)

Please submit your complete application using one of the following methods:

Email:

palm@ehp.qld.gov.au

The email subject line should be 'Application for a disposal permit for contaminated soil'.

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

Mail:

Permit and Licence Management

Department of Environment and Heritage Protection

GPO Box 2454, BRISBANE QLD 4001

Courier or hand delivery:

Permit and Licence Management

Department of Environment and Heritage Protection

Level 3, 400 George Street,

BRISBANE QLD 4001

Hours: 8.30 am—5.00 pm business days

Privacy statement
The Department of Environment and Heritage Protection (the department) is collecting your personal information to assess the application for a disposal permit under s.424 of the *Environmental Protection Act 1994*. Information will not be disclosed to any other person or agency unless you have given us permission or we are authorised or required by law. For queries about privacy matters email: privacy@ehp.qld.gov.au or telephone: (07) 3330 5436.

CLEANAWAY
Making a sustainable future possible

14 April 2016

Solid Waste – Post Collections
Cleanaway Solid Waste Pty Ltd
ABN: 55 120 175 635

100 Chum Street
New Chum QLD 4303
Australia
P +61 7 3816 2166

Brisbane City Council
Attn: Tim George
Environmental Scientist

Project Name: 7 Wellington Street, East Brisbane (D160337)
Project Address: 7 Wellington Street, East Brisbane, QLD

Dear Tim

Lot on Plan: Site Comprises Lot 1 & 29 on RP51249

Following your email correspondence and provision of the laboratory results for the above Lot, I consider we are able to accept the following volume of soil for disposal:

- **Approximately 1,000 m3 of contaminated soil for Lined landfill disposal**

We consider that this material will fall within the acceptance criteria of Cleanaway Waste Management's DEHP licence.

Our DEHP Environmental Authority is EPPR00445713, Lot 268 on SP103913 and Lot 227 on SP103913.

When issued, a copy of the soil disposal permit must be forwarded to this office prior to transportation. Landfill administration must be advised of the date that the soil will be transported to the landfill.

If you require any additional information please do not hesitate to contact the undersigned on CTPI 49-Sch4 CTPI 49-Sch4

Regards

sch4p4(6) Personal information

Operations Manager

New Chum Landfill

CURRENT TITLE SEARCH

DEPT OF NATURAL RESOURCES AND MINES, QUEENSLAND

Request No: 22186814
Search Date: 06/11/2015 16:18

Title Reference: 50213117
Date Created: 01/04/1998

Previous Title: 50089779
50089780

REGISTERED OWNER

Dealing No: 710871395 03/08/2007

TRANSPACIFIC WASTE MANAGEMENT PTY LTD
A.C.N. 120 175 635

ESTATE AND LAND

Estate in Fee Simple

LOT 268 SURVEY PLAN 103913
County of STANLEY Parish of GOODNA
Local Government: IPSWICH

For depth restrictions refer to Plan SP 103913

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
   Deed of Grant No. 10031168 (POR 220)
   Deed of Grant No. 10033067 (POR 219)
   Deed of Grant No. 10046194 (Lot 218 on CP SL10024)
   Deed of Grant No. 10046196 (POR 217)
   Deed of Grant No. 10105131 (POR 264)
   Deed of Grant No. 10116209 (POR 265)
   Deed of Grant No. 10116210 (POR 268)
   Deed of Grant No. 10118171 (POR 269)
   Deed of Grant No. 17761240 (Lot 299 on CP 892008)
   Deed of Grant No. 18789219 (Lot 65 on CP 816935)

2. EASEMENT IN GROSS No 601143346 (D953347) 10/11/1970
   BURDENING THE LAND
   TO THE QUEENSLAND ELECTRICITY GENERATING BOARD
   OVER EASEMENTS B AND C ON RP126793

3. TRANSFER No 703630291 14/10/1999 at 08:19
   EASEMENT IN GROSS: 601143346 (D953347)
   QUEENSLAND ELECTRICITY TRANSMISSION CORPORATION LIMITED
   A.C.N. 078 849 233

4. EASEMENT IN GROSS No 602211776 (D953349) 10/11/1970
   burdening the land
   QUEENSLAND ELECTRICITY COMMISSION
   over
   EASEMENT B ON RP126945

CURRENT TITLE SEARCH

DEPT OF NATURAL RESOURCES AND MINES, QUEENSLAND

Request No: 22186814
Search Date: 06/11/2015 16:18 **Title Reference: 50213117**
Date Created: 01/04/1998

EASEMENTS, ENCUMBRANCES AND INTERESTS

5. TRANSFER No 703675243 05/11/1999 at 07:49
   EASEMENT IN GROSS: 602211776 (D953349)
   QUEENSLAND ELECTRICITY TRANSMISSION CORPORATION LIMITED
   A.C.N. 078 849 233

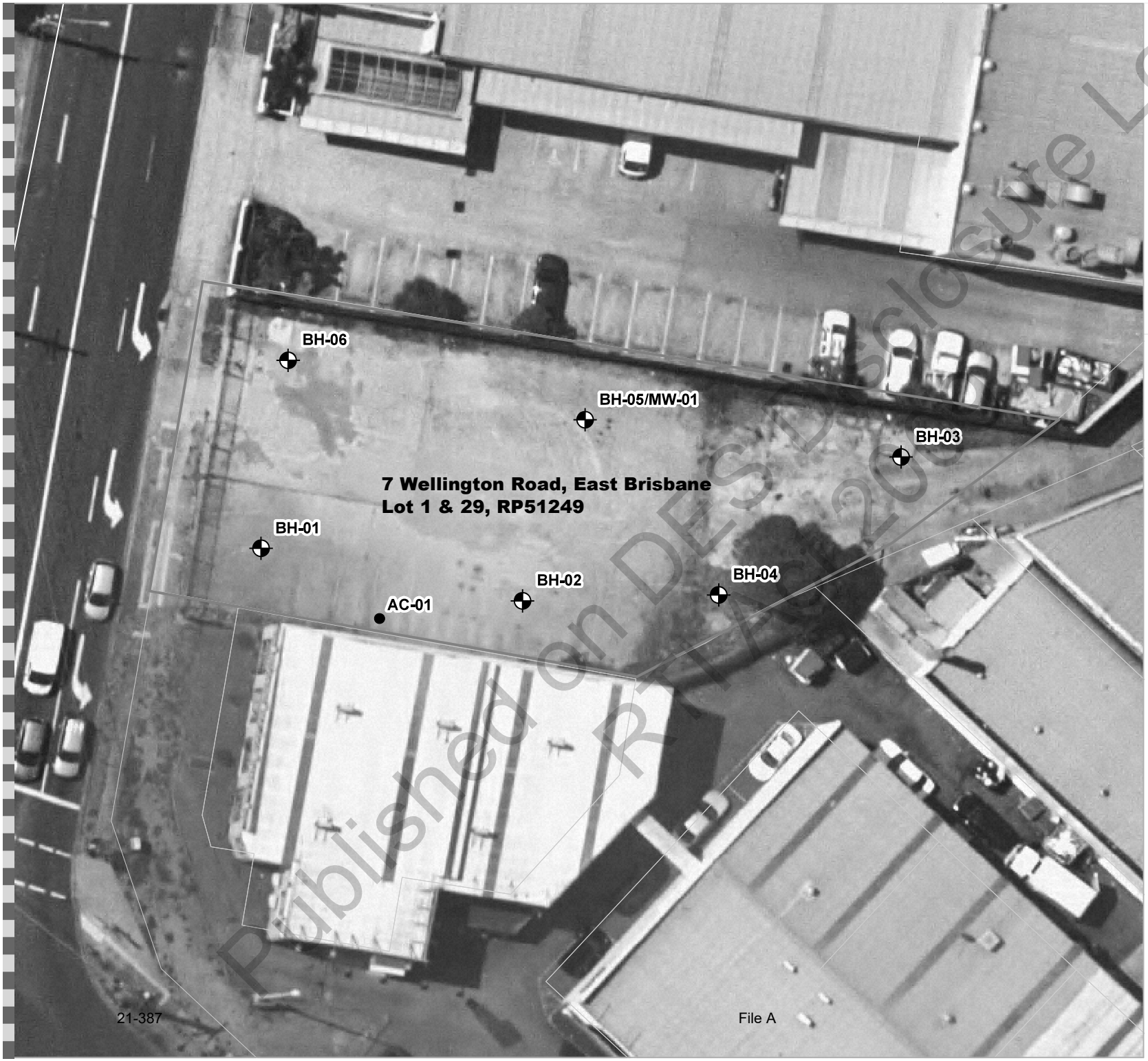
ADMINISTRATIVE ADVICES - NIL
UNREGISTERED DEALINGS - NIL

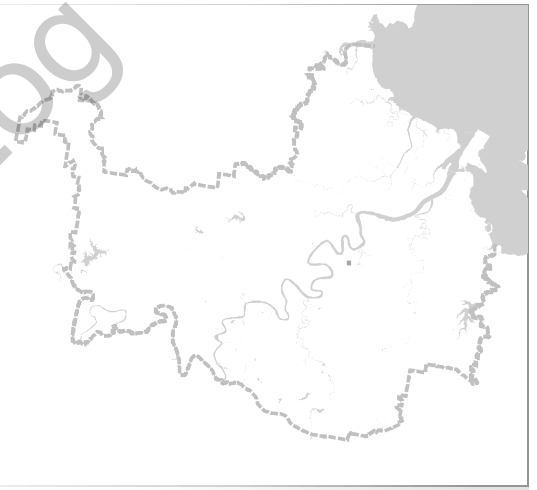
CERTIFICATE OF TITLE ISSUED - No

Caution - Charges do not necessarily appear in order of priority

** End of Current Title Search **

Requested By: D-ENQ CITEC CONFIRM





Legend

- Grab Sample
- Boreholes
- Site Boundary

N W E S

0 4 8 12 Metres

Prepared : 093032
Checked : NC
Revision : 0
Publication Date : 13 May 2014
Project Number : 100001

File : G:\BCC\DP\rojf\41\40901_Wellington_Rd_Park_East_Brisbane\Contaminated Land\ArcGIS\Figures.mxd

DATA INFORMATION

In consideration of Council, and the copyright owners listed below, permitting the use of this data, you acknowledge and agree that Council, and the copyright owners, give no warranty in relation to the data (including accuracy, reliability, completeness, currency or suitability) and accept no liability (including without limitation, liability in negligence) for any loss, damage or costs (including consequential damage), relating to any use of this data.

Brisbane City Council
City Projects Office
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BRISBANE CITY

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City Projects Office
Contaminated Land Services
PSI - 7 Wellington Road, East Brisbane

Figure 1 - Borehole Locations

GIM - 100001 - 001

21-387

File A

			Site Specific EIL			
			Chromium	Copper	Nickel	Zinc
Limit of Reporting (LOR)			2	5	2	5
Unit of Measurement			mg/kg	mg/kg	mg/kg	mg/kg
Date	**Sample ID**	**Depth**				
26-Mar-14	BH-01/01	0.3	400	150	80	470
26-Mar-14	BH-01/02	0.8	400	150	80	470
26-Mar-14	BH-01/03	1.1	400	150	80	470
26-Mar-14	BH-01/04	1.7	400	120	240	370
26-Mar-14	BH-02/01	0.2	400	150	80	470
26-Mar-14	BH-02/02	0.6	400	230	310	990
26-Mar-14	BH-02/04	1.8	400	220	270	800
26-Mar-14	BH-03/01	0.2	400	230	310	990
26-Mar-14	BH-03/02	0.8	400	230	310	990
26-Mar-14	BH-03/03	0.9	400	230	310	990
26-Mar-14	BH-03/04	1.3	400	220	270	800
26-Mar-14	BH-04/01	0.2	400	150	80	470
26-Mar-14	BH-04/02	0.8	400	230	310	990
26-Mar-14	BH-05/01	0.2	400	150	80	470
26-Mar-14	BH-05/02	0.7	400	230	310	990
26-Mar-14	BH-05/03	1.3	400	230	310	990
26-Mar-14	BH-05/05	1.8	400	220	270	800
26-Mar-14	BH-05/07	2.7	400	220	270	800
26-Mar-14	BH-06/01	0.4	400	150	80	470
26-Mar-14	BH-06/02	1.0	400	230	310	990
26-Mar-14	BH-06/04	2.1	400	120	240	370
26-Mar-14	BH-06/05	2.5	400	220	270	800

Notes:

- Sample nomenclature: BH-##/#.# denotes a discrete soil sample obtained from a soil boring at the specified depth;
- ' mg/kg ' indicates milligrams of analyte per kilogram of soil; and
- Site specfic EILs are calculated as defined within NEPM 2013.

Analyte / Investigation Level (NEPM 2013)						Heavy Metals								PAH		
			pH	Cation Exchange Capacity	Clay**	Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	Mercury	Naphthalene	Sum of PAH	Benzo(a)pyrene TEQ***
EIL - Urban Residential/Public Open Space*			--	--	--	100	--	400	120-230[1]	1100	80-310[1]	370-990[1]	--	170	--	--
HBIL - C Recreational/Public Open Space			--	--	--	300	90	300	17000	600	1200	30000	80	--	300	3
HBIL - D Commercial/Industrial						3000	900	3600	240000	1500	6000	400000	730	--	4000	40
Limit of Reporting (LOR)			0.1	0.1	1	5	1	2	5	5	2	5	0.1	0.5	0.5	1.2
Unit of Measurement			-	meq/100g	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date	**Sample ID**	**Depth**														
26-Mar-14	BH-01/01	0.3	-	-	-	**8**	<1	**10**	**25**	**2569**	**11**	**108**	<0.1	-	-	-
26-Mar-14	BH-01/02	0.8	-	-	-	<5	<1	**5**	**42**	**51**	**13**	**736**	<0.1	<0.5	<0.5	<0.5
26-Mar-14	BH-01/03	1.1				**13**	**1**	**16**	**400**	**1100**	**16**	**703**	**1**	-	-	-
26-Mar-14	BH-01/04	1.7	-	-	-	**9**	<1	**18**	**6**	**44**	<2	**53**	<0.1	-	-	-
26-Mar-14	BH-02/01	0.2	-	-	-	<5	<1	**8**	**50**	**536**	**8**	**349**	**0.6**	<0.5	<0.5	<0.5
26-Mar-14	BH-02/02	0.6	-	-	-	**17**	<1	**6**	**12**	**42**	**4**	**49**	<0.1	-	-	-
26-Mar-14	BH-02/04	1.8	-	-	-	**6**	<1	**9**	**14**	**41**	**4**	**44**	**0.1**	<0.5	<0.5	<0.5
26-Mar-14	BH-03/01	0.2	**7.8**	**25.1**	**20**	<5	<1	**8**	**22**	**46**	**12**	**510**	<0.1	<0.5	<0.5	<0.5
26-Mar-14	BH-03/02	0.8	-	-	-	**13**	**1**	**22**	**74**	**2460**	**23**	**869**	**0.2**	-	-	-
26-Mar-14	BH-03/03	0.9	-	-	-	**6**	<1	**6**	**8**	**86**	**3**	**43**	**0.8**	-	-	-
26-Mar-14	BH-03/04	1.3	-	-	-	**8**	<1	**16**	**16**	**35**	**7**	**39**	<0.1	<0.5	<0.5	<0.5
26-Mar-14	BH-04/01	0.2	-	-	-	<5	<1	**12**	**42**	**22**	**9**	**70**	**0.2**	-	-	-
26-Mar-14	BH-04/02	0.8	-	-	-	**15**	<1	**4**	**9**	**48**	**2**	**31**	<0.1	-	-	-
26-Mar-14	BH-05/01	0.2	-	-	-	**45**	**17**	**165**	**690**	**2420**	**109**	**8300**	**0.1**	<0.5	<0.5	<0.5
26-Mar-14	BH-05/02	0.7	-	-	-	**12**	<1	**7**	**32**	**175**	**5**	**1400**	**0.2**	-	-	-
26-Mar-14	BH-05/03	1.3	-	-	-	**9**	<1	**10**	**22**	**88**	**9**	**122**	**0.4**	-	-	-
26-Apr-14	BH-05/05	1.8	-	-	-	**6**	<1	**12**	**13**	**24**	**6**	**56**	<0.1	-	-	-
26-Mar-14	BH-05/07	2.7	-	-	-	<5	<1	**19**	**10**	**8**	<2	**10**	<0.1	-	-	-
26-Mar-14	BH-06/01	0.4	**6.6**	**7.2**	**20**	**129**	**4**	**176**	**86**	**172**	**67**	**1590**	<0.1	<0.5	**22.1**	**3.0**
26-Mar-14	BH-06/02	1.0	-	-	-	**8**	**1**	**20**	**18**	**28**	**9**	**518**	<0.1	-	-	-
26-Mar-14	BH-06/04	2.1	**5.2**	**17**	**20**	**18**	<1	**52**	**17**	**14**	**8**	**63**	<0.1	-	-	-
26-Mar-14	BH-06/05	2.5	**6.6**	**20**	**20**	<5	<1	**42**	**22**	**16**	**5**	**31**	<0.1	<0.5	<0.5	<0.5

Notes:

- Sample nomenclature: BH-##/#.# denotes a discrete soil sample obtained from a soil boring at the specified depth;
- ' mg/kg ' indicates milligrams of analyte per kilogram of soil;
- ' -- ' indicates no guidelines applicable for a particular analyte;
- ' - ' indicates sample not analysed;
- Shading indicates concentration in excess of a relevant guideline;
- ' * ' EIL values are for aged contamination (>2 years) within soil;
- ' ** ' A clay content of 10% was adopted for all EIL calculations;
- ' *** ' Carcinogenic PAHs expressed as BAP TEQ as defined within NEPM 2013; and
- ' [1] ' Site specfic EILs are calculated as defined within NEPM 2013 (refer to Table 1).

Analyte / Investigation Level				BTEXN										TRH							
				Benzene		Toluene		Ethylbenzene		Xylenes		Naphthalene		C_6 - C_{10} F1 Fraction		>C_{10} - C_{16} F2 Fraction		>C_{16} - C_{34}		>C_{34} - C_{40}	
Direct Contact (all soil types) [a]																					
CRC CARE HSL C - Recreational				120		18000		5300		15000		1900		5100		3800		5300		7400	
CRC CARE Intrusive Worker				1100		120000		85000		130000		29000		82000		62000		85000		120000	
Soil Type [b]				S	C	S	C	S	C	S	C	S	C	S	C	S	C	S	C	S	C
Vapour Intrusion																					
CRC CARE HSL C - Recreational				NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	na		na	
CRC CARE Maintanence Worker				77	350	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	na		na	
ESL - Urban Residential/Open Space [c]				50	65	85	105	70	125	105	45	170		180		120		300	1300	2800	5600
Laboratory LOR				0.2		0.5		0.5		0.5		1.0		10		50		100		100	
Unit of Measurement				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Date	**Sample ID**	**Depth**	**Predominant Overlying Soil Type** [c]																		
26-Mar-14	BH-01/01	0.3	Sand	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-01/02	0.8	Sand	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-02/01	0.2	Clay	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-02/02	0.6	Clay	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-02/04	1.8	Clay	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-03/01	0.2	Clay	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-03/02	0.8	Clay	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-03/03	0.9	Clay	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-03/04	1.3	Clay	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-04/01	0.2	Sand	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-04/02	0.8	Sand	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-05/01	0.2	Sand	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		**290**		**190**	
26-Mar-14	BH-05/02	0.7	Sand	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-05/07	2.7	Clay	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-06/01	0.4	Sand	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		**210**		<100	
26-Mar-14	BH-06/02	1.0	Sand	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-06/04	2.1	Clay	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	
26-Mar-14	BH-06/05	2.5	Clay	<0.2		<0.5		<0.5		<0.5		<1.0		<10		<50		<100		<100	

Notes:
- Sample nomenclature: BH-##/#.# denotes a discrete soil sample obtained from a soil boring at the specified depth;
- ' mg/kg ' indicates milligrams of analyte per kilogram of soil;
- Health Screening Levels (HSLs) as defined in *Health Screening Levels for petroleum hydrocarbons in soil and groundwater.* Cooperative Research Centre for Contamination Assessment and Remediation of the Environment (CRC CARE) Technical Report No. 10 (2011). In using these HSLs, reference is made to the notes and limitations detailed in the HSL Table Notes for Tables A1 to A4 in Appendix A of *Part 1: Technical Development Document*. Land use scenarios are defined as HSL-C (recreational/open-space) and Intrusive Maintenance Worker (< 1m trench depth);
- F1 Fraction denotes TRH C_6-C_{10} fraction minus BTEX compounds as reported in the laboratory analysis reports;
- F2 Fraction denotes TRH >C_{10}-C_{16} minus naphthalene, in accordance with the *Guideline on laboratory analysis of potentially contaminated soils.* National Environmental Protection (Assessment of Site Contamination Measure (NEPM) Schedule B3 (Amendment Measure 2013). The naphthalene concentration reported by the laboratory was manually subtracted from the reported TRH >C_{10}-C_{16} concentration;
- ' Xylenes ' denotes the sum of *o*-, *p*- and *m*-Xylene isomers;
- [a] HSL for Direct Contact are used to assess soil contamination present within the upper 0.5m of the soil profile as this depth of soil is considered to be the most likely zone within which the relevant human receptors will come into contact with soil. These HSL may also be relevant where the potential exists for soil at depth to be excavated and brought to the surface;
- [b] HSLs are defined with respect to the predominant overlying soil types classified as sand (S), silt (M) or clay (C);
- [c] Predominant Overlying Soil Type is defined as the soil type that represents the largest component of the vertical profile above the relevant soil sample depth and may not be the soil type from which the sample was obtained. Each soil sample is assessed independently as the predominant soil type may alter with sample depth within each boring. Where soil lithology encountered is not sand, silt or clay (for eg. gravel or unconsolidated fill), the HSL for sand is used to provide a conservative assessment. Soil boring logs are provided in Appendix H;
- ' NL ' indicates ' Not Limiting ' where the maximum soil vapour concentration cannot result in an unacceptable vapour risk for the relevant soil type and depth;
- ' na ' indicates not applicable as TRH >C16 fraction hydrocarbons and lead have physical properties which render them non-volatile, and therefore not a concern for vapour intrusion; and
- Shading indicates concentration in excess of a relevant HSL (by predominant overlying soil type above and depth) for hydrocarbons.

Analyte / Investigation Level (NEPM 2013)			Pesticides (OC/OP)								
			Aldrin + Dieldrin	Chlordane	Endosulfan	Endrin	DDT+DDD+DDE	Heptachlor	HCB	Methoxychlor	Total OP
EIL - Urban Residential/Public Open Space*			--	--	--	--	--	--	--	--	--
HBIL - C Recreational/Public Open Space			10	70	340	20	400	10	10	400	--
HBIL - D Commercial/Industrial			45	530	2000	100	3600	50	80	2500	--
Limit of Reporting (LOR)			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	--
Unit of Measurement			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Date	**Sample ID**	**Depth**									
3-Dec-13	BH-03/01	0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<LOR
3-Dec-13	BH-06/01	0.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<LOR

Notes:

- Sample nomenclature: BH-##/#.# denotes a discrete soil sample obtained from a soil boring at the specified depth;
- ' mg/kg ' indicates milligrams of analyte per kilogram of soil;
- ' -- ' indicates no guidelines applicable for a particular analyte;
- ' - ' indicates sample not analysed; and
- Shading indicates concentration in excess of a relevant guideline.

Analyte / Investigation Level			Arsenic		Copper		Lead		Nickel		Zinc		PAH	
			DI Leach	TCLP	DI Leach	TCLP	DI Leach	TCLP	DI Leach	TCLP	DI Leach	TCLP	DI Leach	TCLP
Limit of Reporting (LOR)			0.01	0.1	0.01	0.1	0.01	0.1	0.01	0.1	0.01	0.1	0.5	0.5
Date	**Sample ID**	**Unit**												
16-Apr-14	BH-02/01	mg/L	<0.01	<0.1	**0.03**	**<0.1**	**0.58**	**0.1**	<0.01	<0.1	**0.29**	**1**	--	--
16-Apr-14	BH-05/01	mg/L	<0.01	<0.1	<0.01	**0.9**	<0.01	**1.6**	<0.01	**0.4**	**0.02**	**32.1**	--	--
16-Apr-14	BH-06/01	mg/L	<0.01	<0.1	**0.02**	<0.1	**0.09**	**0.2**	<0.01	**0.1**	**0.25**	**13.2**	<0.5	<0.5

Notes:

- Sample nomenclature: BH-##/#.# denotes a discrete soil sample obtained from a soil boring at the specified depth;
- 'mg/L' indicates milligrams of analyte per litre of water;
- ' -- ' indicates sample not analysed;
- Shading indicates concentration in excess of a relevant investigation level;
- NEPM GILs are not referenced due to investigation levels being less that laboratory limit of detection; and
- Investigation levels based on general landfill acceptance criteria.

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EB1407275**	Page	: 1 of 18
Client	: **BRISBANE CITY COUNCIL**	Laboratory	: Environmental Division Brisbane
Contact	: MR ERIK DEKKER	Contact	: Customer Services
Address	: GPO BOX 2567 BRISBANE QLD, AUSTRALIA 4001	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: erik.dekker@brisbane.qld.gov.au	E-mail	: Brisbane.Enviro.Services@alsglobal.com
Telephone	: +61 3027 4726	Telephone	: +61 7 3243 7222
Facsimile	: ----	Facsimile	: +61 7 3243 7218
Project	: Wellington Road - 140901	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: 4400020969		
C-O-C number	: ----	Date Samples Received	: 26-MAR-2014
Sampler	: Tim George	Issue Date	: 03-APR-2014
Site	: ----		
		No. of samples received	: 31
Quote number	: BN/007/14	No. of samples analysed	: 21

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results
- Surrogate Control Limits

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting

- **ALS is not NATA accredited for the analysis of Bifenthrin in soils when performed under ALS Method EP068D**
- **ASS: EA037 (Rapid Field and F(ox) screening): pH F(ox) Reaction Rate: 1 - Slight; 2 - Moderate; 3 - Strong; 4 - Extreme**
- **EA037 ASS Field Screening: NATA accreditation does not cover performance of this service.**
- **EA200 Legend**
- **EA200 'Am' Amosite (brown asbestos)**
- **EA200 'Ch' Chrysotile (white asbestos)**
- **EA200 'Cr' Crocidolite (blue asbestos)**
- **EA200 'Trace' - Asbestos fibres detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres**
- **EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.**
- **EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.**
- **EA200: Negative results for vinyl tiles should be confirmed by an independent analytical technique.**
- **EA200Q: ALS laboratory procedures and methods used for the identification and quantitation of asbestos are consistent with AS4964-2004 and the requirements of the 2013 NEPM for Assessment of Site Contamination**
- **EA200Q: Asbestos weights and percentages are not covered under the Scope of NATA Accreditation.**
  Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present).
  Percentages for Asbestos content in ACM are based on the 2013 NEPM default values. All numerical results under this method are approximate and should be used as a guide only.
- **EG005T (Total Metals) Sample EB1407275-001 shows poor duplicate results due to sample heterogeneity. Confirmed by visual inspection.**
- **EG005T (Total Metals) Sample EB1407275-002 shows poor matrix spike recovery due to sample heterogeneity. Confirmed by visual inspection.**

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
p4(6) Personal inform	Metals Production Chemist	Brisbane Inorganics
	Team Leader - Asbestos	Newcastle - Asbestos
	Senior Inorganic Chemist	Brisbane Acid Sulphate Soils
		Brisbane Inorganics
	2IC Organic Instrument Chemist	Brisbane Organics

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	BH-01/01	BH-01/02	BH-02/01	BH-02/02	BH-02/04
			Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	CAS Number	LOR	Unit	EB1407275-001	EB1407275-002	EB1407275-005	EB1407275-006	EB1407275-008
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1.0	%	**13.5**	**27.7**	**23.7**	**13.7**	**21.2**
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	**8**	<5	<5	**17**	**6**
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	**10**	**5**	**8**	**6**	**9**
Copper	7440-50-8	5	mg/kg	**25**	**42**	**50**	**12**	**14**
Lead	7439-92-1	5	mg/kg	**256**	**51**	**536**	**42**	**41**
Nickel	7440-02-0	2	mg/kg	**11**	**13**	**8**	**4**	**4**
Zinc	7440-66-6	5	mg/kg	**108**	**736**	**349**	**49**	**44**
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	**0.6**	<0.1	**0.1**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Fluorene	86-73-7	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Anthracene	120-12-7	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Pyrene	129-00-0	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Chrysene	218-01-9	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Benzo(b)fluoranthene	205-99-2	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg	----	<0.5	<0.5	----	<0.5
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg	----	**0.6**	**0.6**	----	**0.6**
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg	----	**1.2**	**1.2**	----	**1.2**
EP080/071: Total Petroleum Hydrocarbons								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	BH-01/01	BH-01/02	BH-02/01	BH-02/02	BH-02/04
				Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	CAS Number	LOR	Unit		EB1407275-001	EB1407275-002	EB1407275-005	EB1407275-006	EB1407275-008
EP080/071: Total Petroleum Hydrocarbons - Continued									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	>C10_C16	50	mg/kg		<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	<50	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.1	%		----	111	126	----	123
2-Chlorophenol-D4	93951-73-6	0.1	%		----	102	113	----	111
2.4.6-Tribromophenol	118-79-6	0.1	%		----	54.5	61.9	----	66.4
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.1	%		----	125	125	----	124
Anthracene-d10	1719-06-8	0.1	%		----	86.5	89.5	----	83.6
4-Terphenyl-d14	1718-51-0	0.1	%		----	103	118	----	103
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.1	%		78.7	90.9	88.8	85.9	93.4

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)			Client sample ID	BH-01/01	BH-01/02	BH-02/01	BH-02/02	BH-02/04
			Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	*CAS Number*	*LOR*	*Unit*	**EB1407275-001**	**EB1407275-002**	**EB1407275-005**	**EB1407275-006**	**EB1407275-008**
EP080S: TPH(V)/BTEX Surrogates - Continued								
Toluene-D8	2037-26-5	0.1	%	**73.9**	**81.9**	**85.8**	**84.0**	**90.6**
4-Bromofluorobenzene	460-00-4	0.1	%	**92.3**	**87.9**	**95.8**	**98.0**	**100**

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)				Client sample ID	BH-03/01	BH-03/02	BH-03/03	BH-03/04	BH-04/01
				Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	*CAS Number*	*LOR*	*Unit*		**EB1407275-010**	**EB1407275-011**	**EB1407275-012**	**EB1407275-013**	**EB1407275-015**
EA002 : pH (Soils)									
pH Value	----	0.1	pH Unit		**7.8**	----	----	----	----
EA055: Moisture Content									
Moisture Content (dried @ 103°C)	----	1.0	%		**31.8**	**26.7**	**18.3**	**32.1**	**7.6**
ED008: Exchangeable Cations									
Exchangeable Calcium	----	0.1	meq/100g		**23.4**	----	----	----	----
Exchangeable Magnesium	----	0.1	meq/100g		**1.4**	----	----	----	----
Exchangeable Potassium	----	0.1	meq/100g		**0.2**	----	----	----	----
Exchangeable Sodium	----	0.1	meq/100g		<0.1	----	----	----	----
Cation Exchange Capacity	----	0.1	meq/100g		**25.1**	----	----	----	----
EG005T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		<5	**13**	**6**	**8**	<5
Cadmium	7440-43-9	1	mg/kg		<1	**1**	<1	<1	<1
Chromium	7440-47-3	2	mg/kg		**8**	**22**	**6**	**16**	**12**
Copper	7440-50-8	5	mg/kg		**22**	**74**	**8**	**16**	**42**
Lead	7439-92-1	5	mg/kg		**46**	**2460**	**86**	**35**	**22**
Nickel	7440-02-0	2	mg/kg		**12**	**23**	**3**	**7**	**9**
Zinc	7440-66-6	5	mg/kg		**510**	**869**	**43**	**39**	**70**
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	**0.2**	**0.8**	<0.1	**0.2**
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	----	----	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	----	----	----	----
^ **Total Chlordane (sum)**	----	0.05	mg/kg		<0.05	----	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	----	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	----	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	BH-03/01	BH-03/02	BH-03/03	BH-03/04	BH-04/01
				Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	CAS Number	LOR	Unit		EB1407275-010	EB1407275-011	EB1407275-012	EB1407275-013	EB1407275-015
EP068A: Organochlorine Pesticides (OC) - Continued									
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	----	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg		<0.05	----	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg		<0.05	----	----	----	----
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	----	----	----	----
4.4`-DDT	50-29-3	0.2	mg/kg		<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg		<0.05	----	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg		<0.2	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg		<0.05	----	----	----	----
^ Sum of DDD + DDE + DDT	----	0.05	mg/kg		<0.05	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)									
Dichlorvos	62-73-7	0.05	mg/kg		<0.05	----	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg		<0.05	----	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg		<0.2	----	----	----	----
Dimethoate	60-51-5	0.05	mg/kg		<0.05	----	----	----	----
Diazinon	333-41-5	0.05	mg/kg		<0.05	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg		<0.05	----	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg		<0.2	----	----	----	----
Malathion	121-75-5	0.05	mg/kg		<0.05	----	----	----	----
Fenthion	55-38-9	0.05	mg/kg		<0.05	----	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg		<0.05	----	----	----	----
Parathion	56-38-2	0.2	mg/kg		<0.2	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg		<0.05	----	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg		<0.05	----	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg		<0.05	----	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg		<0.05	----	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg		<0.05	----	----	----	----
Ethion	563-12-2	0.05	mg/kg		<0.05	----	----	----	----
Carbophenothion	786-19-6	0.05	mg/kg		<0.05	----	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg		<0.05	----	----	----	----
EP075(SIM): Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	----	----	----	<0.5

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)				Client sample ID	BH-03/01	BH-03/02	BH-03/03	BH-03/04	BH-04/01
				Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	*CAS Number*	*LOR*	*Unit*		**EB1407275-010**	**EB1407275-011**	**EB1407275-012**	**EB1407275-013**	**EB1407275-015**
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	----	----	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	----	----	----	<0.5
Fluorene	86-73-7	0.5	mg/kg		<0.5	----	----	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	----	----	----	<0.5
Anthracene	120-12-7	0.5	mg/kg		<0.5	----	----	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	----	----	----	<0.5
Pyrene	129-00-0	0.5	mg/kg		<0.5	----	----	----	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	----	----	----	<0.5
Chrysene	218-01-9	0.5	mg/kg		<0.5	----	----	----	<0.5
Benzo(b)fluoranthene	205-99-2	0.5	mg/kg		<0.5	----	----	----	<0.5
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		<0.5	----	----	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<0.5	----	----	----	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		<0.5	----	----	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	----	----	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	----	----	----	<0.5
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	mg/kg		<0.5	----	----	----	<0.5
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg		<0.5	----	----	----	<0.5
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg		**0.6**	----	----	----	**0.6**
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg		**1.2**	----	----	----	**1.2**
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	>C10_C16	50	mg/kg		<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	<100	<100
^ **>C10 - C40 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	BH-03/01	BH-03/02	BH-03/03	BH-03/04	BH-04/01
			Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	CAS Number	LOR	Unit	EB1407275-010	EB1407275-011	EB1407275-012	EB1407275-013	EB1407275-015
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 - Continued								
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.1	%	90.3	----	----	----	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.1	%	104	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.1	%	112	----	----	----	122
2-Chlorophenol-D4	93951-73-6	0.1	%	103	----	----	----	105
2.4.6-Tribromophenol	118-79-6	0.1	%	60.3	----	----	----	71.2
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.1	%	122	----	----	----	120
Anthracene-d10	1719-06-8	0.1	%	78.1	----	----	----	91.7
4-Terphenyl-d14	1718-51-0	0.1	%	110	----	----	----	113
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%	82.9	94.4	96.8	95.4	92.6
Toluene-D8	2037-26-5	0.1	%	72.4	80.9	92.1	86.6	84.2
4-Bromofluorobenzene	460-00-4	0.1	%	83.8	84.5	95.0	101	102

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)				Client sample ID	BH-04/02	BH-05/01	BH-05/02	BH-05/06	BH-05/07
				Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	*CAS Number*	*LOR*	*Unit*		EB1407275-016	EB1407275-017	EB1407275-018	EB1407275-022	EB1407275-023
EA037: Ass Field Screening Analysis									
pH (F)	----	0.1	pH Unit		----	----	----	**6.5**	----
pH (Fox)	----	0.1	pH Unit		----	----	----	**3.6**	----
Reaction Rate	----	1	-		----	----	----	**4**	----
EA055: Moisture Content									
Moisture Content (dried @ 103°C)	----	1.0	%		**11.5**	**33.3**	**12.9**	----	**23.8**
EG005T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		**15**	**45**	**12**	----	<5
Cadmium	7440-43-9	1	mg/kg		<1	**17**	<1	----	<1
Chromium	7440-47-3	2	mg/kg		**4**	**165**	**7**	----	**19**
Copper	7440-50-8	5	mg/kg		**9**	**690**	**32**	----	**10**
Lead	7439-92-1	5	mg/kg		**48**	**2420**	**175**	----	**8**
Nickel	7440-02-0	2	mg/kg		**2**	**109**	**5**	----	<2
Zinc	7440-66-6	5	mg/kg		**31**	**8300**	**1400**	----	**10**
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	**0.1**	**0.2**	----	<0.1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		----	<0.5	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg		----	<0.5	----	----	----
Fluorene	86-73-7	0.5	mg/kg		----	<0.5	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg		----	<0.5	----	----	----
Anthracene	120-12-7	0.5	mg/kg		----	<0.5	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg		----	<0.5	----	----	----
Pyrene	129-00-0	0.5	mg/kg		----	<0.5	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		----	<0.5	----	----	----
Chrysene	218-01-9	0.5	mg/kg		----	<0.5	----	----	----
Benzo(b)fluoranthene	205-99-2	0.5	mg/kg		----	<0.5	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg		----	<0.5	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		----	<0.5	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg		----	<0.5	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		----	<0.5	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		----	<0.5	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg		----	<0.5	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	BH-04/02	BH-05/01	BH-05/02	BH-05/06	BH-05/07
				Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	CAS Number	LOR	Unit		EB1407275-016	EB1407275-017	EB1407275-018	EB1407275-022	EB1407275-023
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued									
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg		----	<0.5	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg		----	**0.6**	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg		----	**1.2**	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	<10	<10	----	<10
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	----	<50
C15 - C28 Fraction	----	100	mg/kg		<100	**130**	<100	----	<100
C29 - C36 Fraction	----	100	mg/kg		<100	**230**	<100	----	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg		<50	**360**	<50	----	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	----	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	----	<10
>C10 - C16 Fraction	>C10_C16	50	mg/kg		<50	<50	<50	----	<50
>C16 - C34 Fraction	----	100	mg/kg		<100	**290**	<100	----	<100
>C34 - C40 Fraction	----	100	mg/kg		<100	**190**	<100	----	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		<50	**480**	<50	----	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	----	<50
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	----	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	----	<1
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.1	%		----	**118**	----	----	----
2-Chlorophenol-D4	93951-73-6	0.1	%		----	**104**	----	----	----
2.4.6-Tribromophenol	118-79-6	0.1	%		----	**53.8**	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.1	%		----	**122**	----	----	----

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)				Client sample ID	BH-04/02	BH-05/01	BH-05/02	BH-05/06	BH-05/07
				Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	*CAS Number*	*LOR*	*Unit*		**EB1407275-016**	**EB1407275-017**	**EB1407275-018**	**EB1407275-022**	**EB1407275-023**
EP075(SIM)T: PAH Surrogates - Continued									
Anthracene-d10	1719-06-8	0.1	%		----	**85.1**	----	----	----
4-Terphenyl-d14	1718-51-0	0.1	%		----	**97.3**	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.1	%		**92.5**	**84.6**	**85.6**	----	**86.5**
Toluene-D8	2037-26-5	0.1	%		**86.4**	**80.9**	**83.5**	----	**85.0**
4-Bromofluorobenzene	460-00-4	0.1	%		**95.0**	**89.0**	**94.7**	----	**90.1**

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)				Client sample ID	BH-06/01	BH-06/02	BH-06/04	BH-06/05	QA-01
				Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	*CAS Number*	*LOR*	*Unit*		**EB1407275-025**	**EB1407275-026**	**EB1407275-028**	**EB1407275-029**	**EB1407275-030**
EA002 : pH (Soils)									
pH Value	----	0.1	pH Unit		**6.6**	----	**5.2**	**6.6**	----
EA055: Moisture Content									
Moisture Content (dried @ 103°C)	----	1.0	%		**21.2**	**31.2**	**33.8**	**35.8**	**33.1**
ED008: Exchangeable Cations									
Exchangeable Calcium	----	0.1	meq/100g		**6.4**	----	**5.6**	**5.6**	----
Exchangeable Magnesium	----	0.1	meq/100g		**0.7**	----	**10.5**	**13.0**	----
Exchangeable Potassium	----	0.1	meq/100g		**0.2**	----	**0.6**	**0.6**	----
Exchangeable Sodium	----	0.1	meq/100g		<0.1	----	**0.2**	**0.8**	----
Cation Exchange Capacity	----	0.1	meq/100g		**7.2**	----	**17.0**	**20.0**	----
EG005T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		**129**	**8**	**18**	<5	**61**
Cadmium	7440-43-9	1	mg/kg		**4**	**1**	<1	<1	<1
Chromium	7440-47-3	2	mg/kg		**176**	**20**	**52**	**42**	**57**
Copper	7440-50-8	5	mg/kg		**86**	**18**	**17**	**22**	**20**
Lead	7439-92-1	5	mg/kg		**172**	**28**	**14**	**16**	**16**
Nickel	7440-02-0	2	mg/kg		**67**	**9**	**8**	**5**	**9**
Zinc	7440-66-6	5	mg/kg		**1590**	**518**	**63**	**31**	**265**
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticides (OC)									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	----	----	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	----	----	----	----
^ **Total Chlordane (sum)**	----	0.05	mg/kg		<0.05	----	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg		<0.05	----	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg		<0.05	----	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg		<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	BH-06/01	BH-06/02	BH-06/04	BH-06/05	QA-01
			Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	CAS Number	LOR	Unit	EB1407275-025	EB1407275-026	EB1407275-028	EB1407275-029	EB1407275-030
EP068A: Organochlorine Pesticides (OC) - Continued								
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	----	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	----	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	----	----	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	----	----	----	----
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	----	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	----	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	----	----	----	----
^ Sum of DDD + DDE + DDT	----	0.05	mg/kg	<0.05	----	----	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	----	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	----	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	----	----	----	----
Dimethoate	60-51-5	0.05	mg/kg	<0.05	----	----	----	----
Diazinon	333-41-5	0.05	mg/kg	<0.05	----	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	----	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	----	----	----	----
Malathion	121-75-5	0.05	mg/kg	<0.05	----	----	----	----
Fenthion	55-38-9	0.05	mg/kg	<0.05	----	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	----	----	----	----
Parathion	56-38-2	0.2	mg/kg	<0.2	----	----	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	----	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	----	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	----	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	----	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	----	----	----	----
Ethion	563-12-2	0.05	mg/kg	<0.05	----	----	----	----
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	----	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	----	----	----	----
EP075(SIM): Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	<0.5	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	BH-06/01	BH-06/02	BH-06/04	BH-06/05	QA-01
			Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	CAS Number	LOR	Unit	EB1407275-025	EB1407275-026	EB1407275-028	EB1407275-029	EB1407275-030
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	<0.5	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	<0.5	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	<0.5	----
Phenanthrene	85-01-8	0.5	mg/kg	1.6	----	----	<0.5	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	<0.5	----
Fluoranthene	206-44-0	0.5	mg/kg	4.6	----	----	<0.5	----
Pyrene	129-00-0	0.5	mg/kg	4.6	----	----	<0.5	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	1.7	----	----	<0.5	----
Chrysene	218-01-9	0.5	mg/kg	1.8	----	----	<0.5	----
Benzo(b)fluoranthene	205-99-2	0.5	mg/kg	2.4	----	----	<0.5	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	1.1	----	----	<0.5	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	2.1	----	----	<0.5	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	1.0	----	----	<0.5	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	<0.5	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	1.2	----	----	<0.5	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	22.1	----	----	<0.5	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	2.8	----	----	<0.5	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	3.0	----	----	0.6	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	3.2	----	----	1.2	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	140	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	140	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	>C10_C16	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	210	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	210	<50	<50	<50	<50

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	BH-06/01	BH-06/02	BH-06/04	BH-06/05	QA-01
			Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	CAS Number	LOR	Unit	EB1407275-025	EB1407275-026	EB1407275-028	EB1407275-029	EB1407275-030
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 - Continued								
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.1	%	60.8	----	----	----	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.1	%	85.2	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.1	%	123	----	----	112	----
2-Chlorophenol-D4	93951-73-6	0.1	%	109	----	----	101	----
2.4.6-Tribromophenol	118-79-6	0.1	%	76.6	----	----	65.3	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.1	%	117	----	----	111	----
Anthracene-d10	1719-06-8	0.1	%	85.5	----	----	83.5	----
4-Terphenyl-d14	1718-51-0	0.1	%	115	----	----	115	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%	87.0	72.8	89.5	84.8	87.0
Toluene-D8	2037-26-5	0.1	%	84.2	73.3	85.3	83.3	83.1
4-Bromofluorobenzene	460-00-4	0.1	%	94.8	86.7	87.2	85.0	95.2

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)				Client sample ID	**AC-01**	----	----	----	----
				Client sampling date / time	26-MAR-2014 15:00	----	----	----	----
Compound	*CAS Number*	*LOR*	*Unit*		**EB1407275-031**	**----**	**----**	**----**	**----**
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples									
Asbestos Detected	1332-21-4	0.1	g/kg		**Yes**	----	----	----	----
Asbestos Type	1332-21-4	-	--		**Ch**	----	----	----	----
Sample weight (dry)	----	0.01	g		**44.2**	----	----	----	----
APPROVED IDENTIFIER:	----	-	--		**G.MORGAN**	----	----	----	----
EA200Q: Asbestos Quantification (non-NATA)									
Asbestos Containing Material	1332-21-4	0.1	g		**44.2**	----	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	*Client sample ID - Client sampling date / time*	*Analytical Results*
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples		
EA200: Description	AC-01 - 26-MAR-2014 15:00	Two pieces of bonded asbestos cement sheeting approximately 80 x 50 x 10mm

Surrogate Control Limits

Sub-Matrix: **SOIL**

Compound	CAS Number	Recovery Limits (%) Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	138
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	22.8	134.5
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	34.8	154.5
2-Chlorophenol-D4	93951-73-6	41.9	152.8
2.4.6-Tribromophenol	118-79-6	26.0	156.8
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	33.8	156.5
Anthracene-d10	1719-06-8	36.9	153.1
4-Terphenyl-d14	1718-51-0	41.8	172.2
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	52.7	133.7
Toluene-D8	2037-26-5	60.3	131.1
4-Bromofluorobenzene	460-00-4	59.2	126.6

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EB1408581**	Page	: 1 of 3
Client	: **BRISBANE CITY COUNCIL**	Laboratory	: Environmental Division Brisbane
Contact	: MR ERIK DEKKER	Contact	: Customer Services
Address	: GPO BOX 2567 BRISBANE QLD, AUSTRALIA 4001	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: erik.dekker@brisbane.qld.gov.au	E-mail	: Brisbane.Enviro.Services@alsglobal.com
Telephone	: +61 3027 4726	Telephone	: +61 7 3243 7222
Facsimile	: ----	Facsimile	: +61 7 3243 7218
Project	: Wellington Road - 140901	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: 4400020969		
C-O-C number	: ----	Date Samples Received	: 08-APR-2014
Sampler	: Tim George	Issue Date	: 16-APR-2014
Site	: ----		
		No. of samples received	: 5
Quote number	: BN/007/14	No. of samples analysed	: 5

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

NATA Accredited Laboratory 825

Accredited for compliance with ISO/IEC 17025.

WORLD RECOGNISED ACCREDITATION

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
[redacted] ch4p4(6) Personal informatic	Senior Inorganic Chemist	Brisbane Inorganics
	2 IC Acid Sulfate Soils Supervisor	Brisbane Acid Sulphate Soils
	2 IC Acid Sulfate Soils Supervisor	Brisbane Inorganics

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting

- **ASS: EA033 (CRS Suite): ANC not required because pH KCl less than 6.5**
- **ASS: EA033 (CRS Suite): Liming rate is calculated and reported on a dry weight basis assuming use of fine agricultural lime (CaCO3) and using a safety factor of 1.5 to allow for non-homogeneous mixing and poor reactivity of lime. For conversion of Liming Rate from 'kg/t dry weight' to 'kg/m3 in-situ soil', multiply 'reported results' x 'wet bulk density of soil in t/m3'.**
- **EG005T (Total Metals): Sample EB1408544-002 shows poor duplicate result due to sample heterogeneity. Confirmed by visual inspection.**
- **EG005T (Total Metals): Sample EB1408581-004 shows poor spike recovery due to matrix interference. Confirmed by visual inspection.**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Client sample ID	BH-05/06	BH-01/03	BH-01/04	BH-05/03	BH-05/05
				Client sampling date / time	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
Compound	CAS Number	LOR	Unit		EB1408581-001	EB1408581-002	EB1408581-003	EB1408581-004	EB1408581-005
EA033-A: Actual Acidity									
pH KCl (23A)	----	0.1	pH Unit		4.2	----	----	----	----
Titratable Actual Acidity (23F)	----	2	mole H+ / t		52	----	----	----	----
sulfidic - Titratable Actual Acidity (s-23F)	----	0.02	% pyrite S		0.08	----	----	----	----
EA033-B: Potential Acidity									
Chromium Reducible Sulfur (22B)	----	0.005	% S		<0.005	----	----	----	----
acidity - Chromium Reducible Sulfur (a-22B)	----	10	mole H+ / t		<10	----	----	----	----
EA033-D: Retained Acidity									
KCl Extractable Sulfur (23Ce)	----	0.02	% S		<0.02	----	----	----	----
HCl Extractable Sulfur (20Be)	----	0.02	% S		<0.02	----	----	----	----
Net Acid Soluble Sulfur (20Je)	----	0.02	% S		<0.02	----	----	----	----
acidity - Net Acid Soluble Sulfur (a-20J)	----	10	mole H+ / t		<10	----	----	----	----
sulfidic - Net Acid Soluble Sulfur (s-20J)	----	0.02	% pyrite S		<0.02	----	----	----	----
EA033-E: Acid Base Accounting									
ANC Fineness Factor	----	0.5	-		1.5	----	----	----	----
Net Acidity (sulfur units)	----	0.02	% S		0.10	----	----	----	----
Net Acidity (acidity units)	----	10	mole H+ / t		60	----	----	----	----
Liming Rate	----	1	kg CaCO3/t		4	----	----	----	----
EA055: Moisture Content									
Moisture Content (dried @ 103°C)	----	1.0	%		----	24.8	24.2	11.7	22.2
EG005T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		----	13	9	9	6
Cadmium	7440-43-9	1	mg/kg		----	1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg		----	16	18	10	12
Copper	7440-50-8	5	mg/kg		----	400	6	22	13
Lead	7439-92-1	5	mg/kg		----	1100	44	88	24
Nickel	7440-02-0	2	mg/kg		----	16	<2	9	6
Zinc	7440-66-6	5	mg/kg		----	703	53	122	56
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		----	1.0	<0.1	0.4	<0.1

CERTIFICATE OF ANALYSIS

Work Order	: **EB1409076**	Page	: 1 of 7
Client	: **BRISBANE CITY COUNCIL**	Laboratory	: Environmental Division Brisbane
Contact	: MR ERIK DEKKER	Contact	: Customer Services
Address	: GPO BOX 2567 BRISBANE QLD, AUSTRALIA 4001	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: erik.dekker@brisbane.qld.gov.au	E-mail	: Brisbane.Enviro.Services@alsglobal.com
Telephone	: +61 3027 4726	Telephone	: +61 7 3243 7222
Facsimile	: ----	Facsimile	: +61 7 3243 7218
Project	: Wellington Road - 140901	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: 4400020959		
C-O-C number	: ----	Date Samples Received	: 14-APR-2014
Sampler	: Tim George	Issue Date	: 23-APR-2014
Site	: ----		
		No. of samples received	: 6
Quote number	: BN/007/14	No. of samples analysed	: 6

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

NATA Accredited Laboratory 825

Accredited for compliance with ISO/IEC 17025.

WORLD RECOGNISED ACCREDITATION

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
4(6) Personal inforr	Senior Inorganic Chemist	Brisbane Inorganics
	Senior Organic Chemist	Brisbane Inorganics
	Senior Organic Chemist	Brisbane Organics

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

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Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting

Analytical Results

Sub-Matrix: **DI WATER LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Client sample ID: BH-02/01 DI LEACH	BH-05/01 DI LEACH	BH-06/01 DI LEACH	----	----
				Client sampling date / time: 16-APR-2014 10:15	16-APR-2014 10:15	16-APR-2014 10:15	----	----
				EB1409076-004	EB1409076-005	EB1409076-006	----	----
EG005W: Water Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.01	mg/L	<0.01	<0.01	<0.01	----	----
Copper	7440-50-8	0.01	mg/L	**0.03**	<0.01	**0.02**	----	----
Lead	7439-92-1	0.01	mg/L	**0.58**	<0.01	**0.09**	----	----
Nickel	7440-02-0	0.01	mg/L	<0.01	<0.01	<0.01	----	----
Zinc	7440-66-6	0.01	mg/L	**0.29**	**0.02**	**0.25**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	1.0	µg/L	----	----	<1.0	----	----
Acenaphthylene	208-96-8	1.0	µg/L	----	----	<1.0	----	----
Acenaphthene	83-32-9	1.0	µg/L	----	----	<1.0	----	----
Fluorene	86-73-7	1.0	µg/L	----	----	<1.0	----	----
Phenanthrene	85-01-8	1.0	µg/L	----	----	<1.0	----	----
Anthracene	120-12-7	1.0	µg/L	----	----	<1.0	----	----
Fluoranthene	206-44-0	1.0	µg/L	----	----	<1.0	----	----
Pyrene	129-00-0	1.0	µg/L	----	----	<1.0	----	----
Benz(a)anthracene	56-55-3	1.0	µg/L	----	----	<1.0	----	----
Chrysene	218-01-9	1.0	µg/L	----	----	<1.0	----	----
Benzo(b)fluoranthene	205-99-2	1.0	µg/L	----	----	<1.0	----	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	----	----	<1.0	----	----
Benzo(a)pyrene	50-32-8	0.5	µg/L	----	----	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	----	----	<1.0	----	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L	----	----	<1.0	----	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L	----	----	<1.0	----	----
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	µg/L	----	----	<0.5	----	----
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	µg/L	----	----	<0.5	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.1	%	----	----	**40.8**	----	----
2-Chlorophenol-D4	93951-73-6	0.1	%	----	----	**94.3**	----	----
2.4.6-Tribromophenol	118-79-6	0.1	%	----	----	**123**	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.1	%	----	----	**85.8**	----	----
Anthracene-d10	1719-06-8	0.1	%	----	----	**95.8**	----	----
4-Terphenyl-d14	1718-51-0	0.1	%	----	----	**92.9**	----	----

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Client sample ID: BH-02/01 TCLP LEACH	BH-05/01 TCLP LEACH	BH-06/01 TCLP LEACH	BH-02/01 DI LEACH	BH-05/01 DI LEACH
				Client sampling date / time: 26-MAR-2014 15:00	26-MAR-2014 15:00	27-MAR-2014 15:00	26-MAR-2014 15:00	26-MAR-2014 15:00
				EB1409076-001	EB1409076-002	EB1409076-003	EB1409076-004	EB1409076-005
EN33: TCLP Leach								
Initial pH	----	0.1	pH Unit	**6.1**	**7.1**	**6.4**	----	----
After HCl pH	----	0.1	pH Unit	**1.6**	**1.5**	**1.6**	----	----
Extraction Fluid Number	----	1	-	**1**	**1**	**1**	----	----
Final pH	----	0.1	pH Unit	**5.2**	**5.4**	**5.1**	----	----
EN60: Bottle Leaching Procedure								
Final pH	----	0.1	pH Unit	----	----	----	**6.9**	**7.9**

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)				Client sample ID	**BH-06/01 DI LEACH**	----	----	----	----
				Client sampling date / time	27-MAR-2014 15:00	----	----	----	----
Compound	*CAS Number*	*LOR*	*Unit*		**EB1409076-006**	**----**	**----**	**----**	**----**
EN60: Bottle Leaching Procedure									
Final pH	----	0.1	pH Unit		**7.7**	----	----	----	----

Analytical Results

Sub-Matrix: **TCLP LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Client sample ID: BH-02/01 TCLP LEACH	BH-05/01 TCLP LEACH	BH-06/01 TCLP LEACH	----	----
				Client sampling date / time: 16-APR-2014 10:15	16-APR-2014 10:15	16-APR-2014 10:15	----	----
				EB1409076-001	EB1409076-002	EB1409076-003	----	----
EG005C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Copper	7440-50-8	0.1	mg/L	<0.1	**0.9**	<0.1	----	----
Lead	7439-92-1	0.1	mg/L	**0.1**	**1.6**	**0.2**	----	----
Nickel	7440-02-0	0.1	mg/L	<0.1	**0.4**	**0.1**	----	----
Zinc	7440-66-6	0.1	mg/L	**1.0**	**32.1**	**13.2**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	1.0	µg/L	----	----	<1.0	----	----
Acenaphthylene	208-96-8	1.0	µg/L	----	----	<1.0	----	----
Acenaphthene	83-32-9	1.0	µg/L	----	----	<1.0	----	----
Fluorene	86-73-7	1.0	µg/L	----	----	<1.0	----	----
Phenanthrene	85-01-8	1.0	µg/L	----	----	<1.0	----	----
Anthracene	120-12-7	1.0	µg/L	----	----	<1.0	----	----
Fluoranthene	206-44-0	1.0	µg/L	----	----	<1.0	----	----
Pyrene	129-00-0	1.0	µg/L	----	----	<1.0	----	----
Benz(a)anthracene	56-55-3	1.0	µg/L	----	----	<1.0	----	----
Chrysene	218-01-9	1.0	µg/L	----	----	<1.0	----	----
Benzo(b)fluoranthene	205-99-2	1.0	µg/L	----	----	<1.0	----	----
Benzo(k)fluoranthene	207-08-9	1.0	µg/L	----	----	<1.0	----	----
Benzo(a)pyrene	50-32-8	0.5	µg/L	----	----	<0.5	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	1.0	µg/L	----	----	<1.0	----	----
Dibenz(a.h)anthracene	53-70-3	1.0	µg/L	----	----	<1.0	----	----
Benzo(g.h.i)perylene	191-24-2	1.0	µg/L	----	----	<1.0	----	----
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	µg/L	----	----	<0.5	----	----
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	µg/L	----	----	<0.5	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.1	%	----	----	**35.6**	----	----
2-Chlorophenol-D4	93951-73-6	0.1	%	----	----	**88.4**	----	----
2.4.6-Tribromophenol	118-79-6	0.1	%	----	----	**121**	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.1	%	----	----	**85.6**	----	----
Anthracene-d10	1719-06-8	0.1	%	----	----	**93.0**	----	----
4-Terphenyl-d14	1718-51-0	0.1	%	----	----	**87.4**	----	----

Surrogate Control Limits

Sub-Matrix: **DI WATER LEACHATE**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10.0	71.9
2-Chlorophenol-D4	93951-73-6	26.8	130.2
2.4.6-Tribromophenol	118-79-6	19.3	180.8
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	13.9	146.1
Anthracene-d10	1719-06-8	34.6	137.4
4-Terphenyl-d14	1718-51-0	36.2	154.2

Sub-Matrix: **TCLP LEACHATE**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	10.0	71.9
2-Chlorophenol-D4	93951-73-6	26.8	130.2
2.4.6-Tribromophenol	118-79-6	19.3	180.8
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	13.9	146.1
Anthracene-d10	1719-06-8	34.6	137.4
4-Terphenyl-d14	1718-51-0	36.2	154.2

COVER SHEET

☐ **Regional Info & Filing (hard copy)** ☐ **Electronic application received** ☒ **Regional - Action Required**

PaLM Non-DA TEAM - ADMINISTRATION PROCESSING **Application for Disposal Permit (Contaminated Land) Checklist**	
Department/Office: Waste and Contaminated Land	AR No: 086408
Project No: 440052	Permit No: CLEB05788216
Ecotrack Application ID reference: 599391	
Client No: 306596	EMR/CLR ID No: 127512 and 127513
PaLM Contact: M Jones	
Application Details **Indicate by Yes** ☒	
Applicant Name: Brisbane City Council	
Contact Name: Tim George	
Site Location Address: 7 Wellington Road, East Brisbane	
Lot/Plan: 1 & 29 on RP51249	
Application Dates	
Date Received: 15/04/2016	Application Valid Date: 15/04/2016
Due Date: 02/05/2016 (10 business days after application deemed valid)	
Application Type: **Non-DA Soil Disposal Permit**	
Application Checks – Indicate by Yes ☒ Please note: A blank box may indicate an 'INVALID' application	
☒ **Part A and Part B application forms supplied and completed** ☒ **Forms signed and dated** ☒ **All parts of the forms completed** ☒ **Letter of acceptance from Landfill, etc.**	

WLCA ADMINISTRATION PROCESSING	
Applications are generally received by Email	
☐	SAVE COVER SHEET; ELECTRONIC AND/OR SCANNED HARD COPY FILE PARTS **
☐	LOCATE & ORDER FILE (eDOCS/Records) **FILE Reference:** *****Refer for eDOCS file path**
☐	MOVE FILE TO WLCA OFFICER AND UPDATE eDOCS LOCATION
☐	FORWARD HARD COPY FILE TO WLCA OFFICER LOCATION
APPLICATION ASSESSMENT DECISION	
☐	PRINT DECISION NOTICE AND PERMIT; DELEGATE TO SIGN & SAVE *
☐	POST or EMAIL (if email address provided on application) NOTICE & PERMIT TO

	APPLICANT/OWNER/LGA
☐	UPDATE ECOTRACK (Decision, Permit Effective Date & Expiry Date; Officer Responsible, Delegate, File Reference, &.Upload Notices)
	➢ **EMAIL COPY OF DECISION NOTICE TO:** emr.clr.registry@ehp.qld.gov.au
☐	COPY OVER FILES FROM LOCAL DIRECTORY/FOLDER TO eDOCS (** to ***)

****Save to: "\\chqfile2\groupdir\Environmental Services\Contaminated Land\DISPOSAL PERMITS AND SITE ASSESSMENTS" under the corresponding year; month; project number; as e.g. "Cover Sheet-Ecotrack Permit Reference #"**

*****eDOCS save to: ENVIRONMENTAL MANAGEMENT\CONTAMINATED SITES MANAGEMENT\Notifiable Activities or by Local Government Authority (request file creation using lot/plan description)**

Jose Orellana

From: PALM
Sent: Monday, 18 April 2016 9:55 AM
To: 'I&D@ehp.qld.gov.au'
Subject: AR086408 Waste and Contaminated Land Assessment
Attachments: AR086408 Checklist.docx

No hard copy
An application has been received by the Customer Service Team (PaLM) and requires your assessment.

Type: Disposal Permit
AR: AR086408
Project: 440052
Client: Brisbane City Council
Permit: CLEB05788216
Appl ID: 599391

Note: This is on the EMR/CLR register.
All application documents have been attached to Ecotrack/eDocs and can be searched by the AR number.
Please note Non DA staff in PaLM will not be creating files however for any contaminated land application, the EMR/CLR staff will create the file and will advise accordingly in a separate email.
If you have any questions regarding this application please contact Margaret Jones or send an email to palm@ehp.qld.gov.au

Kind Regards,

Ashlee Finnigan
Customer Service Support Officer
Customer Service Team | Regulatory Capability and Customer Service
Department of Environment and Heritage Protection
P 1300 130 372 (Option 4) **F** 07 3330 5875 **E** palm@ehp.qld.gov.au
400 George Street BRISBANE QLD 4000
GPO Box 2454, BRISBANE QLD 4001

Environmental Protection Act 1994

Notice of decision to grant a soil disposal permit with conditions

This information notice is issued by the administering authority in accordance with section 424(5)[1] *of the* Environmental Protection Act 1994 *(EP Act) to advise you of the decision to grant your application for a soil disposal permit, but to impose conditions on the permit, and to inform you of the reasons for the decision and your review and appeal rights.*

21 April 2016
Our reference: 440052 (CLEB05788216)

Brisbane City Council
PO Box 1434
BRISBANE QLD 4001

Dear Tim George, (tim.george@brisbane.qld.gov.au)

Re: Application to remove and dispose of contaminated soil from 7 Wellington Road, East Brisbane Queensland (Lot(s) 1 & 29 on RP51249)

Decision

The administering authority has considered your application received on 18 April 2016 and decided to grant the application but to impose conditions on the permit.

Reasons for the decision

The granting of the permit subject to the conditions imposed is consistent with the standard criteria defined in Schedule 4 of the *Environmental Protection Act 1994* (EP Act).

Assessment criteria used in making the decision

In accordance with section 424(4) of the EP Act in making its decision to grant the application for a disposal permit the administering authority has considered the standard criteria listed in Schedule 4 of the EP Act including:

- best practice environmental management for removal treatment and disposal of contaminated soil
- any applicable environmental protection policy
- any applicable site investigation report or validation report or site management plan
- any applicable Commonwealth, State or local government plans, standards, agreements or requirements.

[1] Section 424 continues to have effect under section 739 of the EP Act.

Findings as a result of the administering authority's assessment of the application

The information provided in the disposal permit application is sufficient to justify the disposal of the soil

Information considered by the administering authority in making its determination

Information provided in the application submitted by Brisbane City Council including:

- Application Form
- Analysis Results
- Letter of Acceptance provided by Cleanaway dated 14 April 2016 stating they are willing to accept approximately **1000m^3** of contaminated soil from 7 Wellington Road, East Brisbane Queensland (Lot(s) 1 & 29 on RP51249) **to** Lined Landfill Disposal at Cleanaway located at 100 Chum Street, New Chum (Lot 268 on SP103913 and Lot 227 on SP103913).

Review and appeal details

You may apply for an internal review of this decision under Chapter 11, Part 3 Division 2 of the EP Act. In accordance with section 521 of the EP Act the application must be:

1. made to the administering authority within 10 business days after receipt of this notice and be supported by enough information for the administering authority to decide the application
2. made to the administering authority in the approved form *Application for review of original decision* (EM709), which is available at www.qld.gov.au using the publication number EM709 as a search term. The completed form must be sent to the address on the form.
3. be supported by enough information to enable the authority to decide the application.

Should you have any questions in relation to this matter, please contact Allen Johns Waste & Contaminated Land on 3330 5694.

Signature

Date

Allen Johns
Delegate of the Chief Executive
Environmental Protection Act 1994

Enquiries:

Allen Johns
Ph: (07) 33305694
Waste and Contaminated Land Assessment
Department of Environment and Heritage Protection.
Level 8, 400 George Street
Brisbane QLD 4001

Email: allen.johns@ehp.qld.gov.au

SOIL DISPOSAL PERMIT
Environmental Protection Act 1994 (EP Act)

Disposal permit number: CLEB05788216

Commencement date: 21 April 2016

Expiry Date: 21 April 2017

Permit Holder: Brisbane City Council

Authorised activity: Removal and disposal of approximately **1000m^3** of contaminated soil from 7 Wellington Road, East Brisbane Queensland (Lot(s) 1 & 29 on RP51249) to Lined Landfill Disposal at Cleanaway located at 100 Chum Street, New Chum (Lot 268 on SP103913 and Lot 227 on SP103913).

Maximum volume: **1000m^3**

This disposal permit is subject to the conditions endorsed hereon or attached hereto in Schedule A.

Signature

Date

Allen Johns
Delegate of the Chief Executive
Environmental Protection Act 1994

Enquiries:

Allen Johns – (07) 33305694

Waste and Contaminated Land Assessment
Department of Environment and Heritage Protection
Level 8, 400 George Street
GPO Box 2454
Brisbane QLD 4001
Phone 13 QGOV (13 74 68)
Email allen.johns@ehp.qld.gov.au

1. Records of soil removal, treatment and disposal authorised under this permit must be kept for a period of no less than seven years and be available to the administering authority by request. The information to be kept in the records must include:

    a. the quantity of material disposed; and

    b. acceptance receipts from the waste disposal/treatment facility.

2. The permit holder must provide a copy of the permit to any person acting under the permit.

3. Contaminated soil must not be released to air, land or water during excavation, loading, storage, treatment and transport of the soil in a manner that causes environmental harm.

COVER SHEET

☐ **Regional Info & Filing (hard copy)** ☐ **Electronic application received** ☒ **Regional - Action Required**

PaLM Non-DA TEAM - ADMINISTRATION PROCESSING **Application for Disposal Permit (Contaminated Land) Checklist**	
Department/Office: Waste and Contaminated Land	AR No: 086408
Project No:	Permit No:
Ecotrack Application ID reference:	
Client No: 306596	EMR/CLR ID No: 127512 and 127513
PaLM Contact: M Jones	
Application Details **Indicate by Yes** ☒	
Applicant Name: Brisbane City Council	
Contact Name: Tim George	
Site Location Address: 7 Wellington Road, East Brisbane	
Lot/Plan: 1 & 29 on RP51249	
Application Dates	
Date Received: 15/04/2016	Application Valid Date: 15/04/2016
Due Date: 29/04/2016 (10 business days after application deemed valid)	
Application Type: **Non-DA Soil Disposal Permit**	
Application Checks – Indicate by Yes ☒ Please note: A blank box may indicate an 'INVALID' application	
☒ **Part A and Part B application forms supplied and completed** ☒ **Forms signed and dated** ☒ **All parts of the forms completed** ☒ **Letter of acceptance from Landfill, etc.**	

WLCA ADMINISTRATION PROCESSING	
Applications are generally received by Email	
☐	SAVE COVER SHEET; ELECTRONIC AND/OR SCANNED HARD COPY FILE PARTS **
☐	LOCATE & ORDER FILE (eDOCS/Records) **FILE Reference:** *****Refer for eDOCS file path**
☐	MOVE FILE TO WLCA OFFICER AND UPDATE eDOCS LOCATION
☐	FORWARD HARD COPY FILE TO WLCA OFFICER LOCATION
APPLICATION ASSESSMENT DECISION	
☐	PRINT DECISION NOTICE AND PERMIT; DELEGATE TO SIGN & SAVE *
☐	POST or EMAIL (if email address provided on application) NOTICE & PERMIT TO

	APPLICANT/OWNER/LGA
☐	UPDATE ECOTRACK (Decision, Permit Effective Date & Expiry Date; Officer Responsible, Delegate, File Reference, &.Upload Notices)
	➢ **EMAIL COPY OF DECISION NOTICE TO:** emr.clr.registry@ehp.qld.gov.au
☐	COPY OVER FILES FROM LOCAL DIRECTORY/FOLDER TO eDOCS (** to ***)

****Save to: "\\chqfile2\groupdir\Environmental Services\Contaminated Land\DISPOSAL PERMITS AND SITE ASSESSMENTS" under the corresponding year; month; project number; as e.g. "Cover Sheet-Ecotrack Permit Reference #"**

*****eDOCS save to: ENVIRONMENTAL MANAGEMENT\CONTAMINATED SITES MANAGEMENT\Notifiable Activities or by Local Government Authority (request file creation using lot/plan description)**

COVER SHEET

☐ **Regional Info & Filing (hard copy)** ☐ **Electronic application received** ☒ **Regional - Action Required**

PaLM Non-DA TEAM - ADMINISTRATION PROCESSING **Application for Disposal Permit (Contaminated Land) Checklist**	
Department/Office: Waste and Contaminated Land	AR No: 086408
Project No: 440052	Permit No: CLEB05788216
Ecotrack Application ID reference: 599391	
Client No: 306596	EMR/CLR ID No: 127512 and 127513
PaLM Contact: M Jones	
Application Details **Indicate by Yes** ☒	
Applicant Name: Brisbane City Council	
Contact Name: Tim George	
Site Location Address: 7 Wellington Road, East Brisbane	
Lot/Plan: 1 & 29 on RP51249	
Application Dates	
Date Received: 15/04/2016	Application Valid Date: 15/04/2016
Due Date: 02/05/2016 (10 business days after application deemed valid)	
Application Type: **Non-DA Soil Disposal Permit**	
Application Checks – Indicate by Yes ☒ Please note: A blank box may indicate an 'INVALID' application	
☒ **Part A and Part B application forms supplied and completed** ☒ **Forms signed and dated** ☒ **All parts of the forms completed** ☒ **Letter of acceptance from Landfill, etc.**	

WLCA ADMINISTRATION PROCESSING	
Applications are generally received by Email	
☐	SAVE COVER SHEET; ELECTRONIC AND/OR SCANNED HARD COPY FILE PARTS **
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****Save to: "\\chqfile2\groupdir\Environmental Services\Contaminated Land\DISPOSAL PERMITS AND SITE ASSESSMENTS" under the corresponding year; month; project number; as e.g. "Cover Sheet-Ecotrack Permit Reference #"**

*****eDOCS save to: ENVIRONMENTAL MANAGEMENT\CONTAMINATED SITES MANAGEMENT\Notifiable Activities or by Local Government Authority (request file creation using lot/plan description)**

Information Notice

Environmental Protection Act 1994

Notice of decision to grant a soil disposal permit with conditions

This information notice is issued by the administering authority in accordance with section 424(5)[1] *of the* Environmental Protection Act 1994 *(EP Act) to advise you of the decision to grant your application for a soil disposal permit, but to impose conditions on the permit, and to inform you of the reasons for the decision and your review and appeal rights.*

21 April 2016
Our reference: 440052 (CLEB05788216)

Brisbane City Council
PO Box 1434
BRISBANE QLD 4001

Dear Tim George, (tim.george@brisbane.qld.gov.au)

Re: Application to remove and dispose of contaminated soil from 7 Wellington Road, East Brisbane Queensland (Lot(s) 1 & 29 on RP51249)

Decision

The administering authority has considered your application received on 18 April 2016 and decided to grant the application but to impose conditions on the permit.

Reasons for the decision

The granting of the permit subject to the conditions imposed is consistent with the standard criteria defined in Schedule 4 of the *Environmental Protection Act 1994* (EP Act).

Assessment criteria used in making the decision

In accordance with section 424(4) of the EP Act in making its decision to grant the application for a disposal permit the administering authority has considered the standard criteria listed in Schedule 4 of the EP Act including:

- best practice environmental management for removal treatment and disposal of contaminated soil
- any applicable environmental protection policy
- any applicable site investigation report or validation report or site management plan
- any applicable Commonwealth, State or local government plans, standards, agreements or requirements.

[1] Section 424 continues to have effect under section 739 of the EP Act.

Findings as a result of the administering authority's assessment of the application

The information provided in the disposal permit application is sufficient to justify the disposal of the soil

Information considered by the administering authority in making its determination

Information provided in the application submitted by Brisbane City Council including:

- Application Form
- Analysis Results
- Letter of Acceptance provided by Cleanaway dated 14 April 2016 stating they are willing to accept approximately **1000m^3** of contaminated soil from 7 Wellington Road, East Brisbane Queensland (Lot(s) 1 & 29 on RP51249) **to** Lined Landfill Disposal at Cleanaway located at 100 Chum Street, New Chum (Lot 268 on SP103913 and Lot 227 on SP103913).

Review and appeal details

You may apply for an internal review of this decision under Chapter 11, Part 3 Division 2 of the EP Act. In accordance with section 521 of the EP Act the application must be:

1. made to the administering authority within 10 business days after receipt of this notice and be supported by enough information for the administering authority to decide the application
2. made to the administering authority in the approved form *Application for review of original decision* (EM709), which is available at www.qld.gov.au using the publication number EM709 as a search term. The completed form must be sent to the address on the form.
3. be supported by enough information to enable the authority to decide the application.

Should you have any questions in relation to this matter, please contact Allen Johns Waste & Contaminated Land on 3330 5694.

ch4p4(6) Personal informatic	21/4/2016
Signature	Date

Allen Johns
Delegate of the Chief Executive
Environmental Protection Act 1994

Enquiries:

Allen Johns
Ph: (07) 33305694
Waste and Contaminated Land Assessment
Department of Environment and Heritage Protection.
Level 8, 400 George Street
Brisbane QLD 4001

Email: allen.johns@ehp.qld.gov.au

SOIL DISPOSAL PERMIT

Environmental Protection Act 1994 (EP Act)

Disposal permit number: CLEB05788216

Commencement date: 21 April 2016

Expiry Date: 21 April 2017

Permit Holder: Brisbane City Council

Authorised activity: Removal and disposal of approximately **1000m^3** of contaminated soil from 7 Wellington Road, East Brisbane Queensland (Lot(s) 1 & 29 on RP51249) to Lined Landfill Disposal at Cleanaway located at 100 Chum Street, New Chum (Lot 268 on SP103913 and Lot 227 on SP103913).

Maximum volume: **1000m^3**

This disposal permit is subject to the conditions endorsed hereon or attached hereto in Schedule A.

sch4p4(6) Personal information

Signature

21/4/2016

Date

Allen Johns
Delegate of the Chief Executive
Environmental Protection Act 1994

Enquiries:

Allen Johns – (07) 33305694

Waste and Contaminated Land Assessment
Department of Environment and Heritage Protection
Level 8, 400 George Street
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Phone 13 QGOV (13 74 68)
Email allen.johns@ehp.qld.gov.au

Schedule A - Conditions

1. Records of soil removal, treatment and disposal authorised under this permit must be kept for a period of no less than seven years and be available to the administering authority by request. The information to be kept in the records must include:

   a. the quantity of material disposed; and

   b. acceptance receipts from the waste disposal/treatment facility.

2. The permit holder must provide a copy of the permit to any person acting under the permit.

3. Contaminated soil must not be released to air, land or water during excavation, loading, storage, treatment and transport of the soil in a manner that causes environmental harm.