

Enquiries to: K Barry
Telephone: 3225 1045 fax 3247 3278
Your reference: B2010
Our reference: 900551

Rayna pl
Upable enr
return

Mark
22/2/02

CTPI 49-Sch4 - Signature

Permit to Remove and Dispose of Contaminated Soil

Pursuant to Section 424 of the *Environment Protection Act* 1994 (EP Act) permission is given to the applicant

CTPI 49-Sch4 - Personal Information

OTEK Australia Pty Ltd
PO Box 107
RICHLANDS QLD 4077
Telephone: 3717 5100
Fax: 3717 5155

to remove and dispose of soil contaminated with
TPH

from 2 Collins Street, Bundaberg

on Lot 64 on RP65117 and described in the following correspondence:

Application for Disposal Permit dated 19 February 2002.

The permit holder is responsible for ensuring that the specific and standard conditions in Schedules 1 and 2 of this permit are complied with by all personnel involved in the excavation, removal and disposal.

Signed

CTPI 49-Sch4 - Signature

Greg O'Brien

Chief Scientific Advisor (Contaminated Land Unit)

21/2/02

cc S Region fax 4121 1650

cc BCC attn JA Stanfield fax 4152 9155

Notice to Applicant

The conditions on this permit have been decided after consideration of the standard criteria (EP Act) and for the purpose of preventing environmental harm. The applicant may apply for a review or appeal against the decision within 14 days of receipt of this notice (s521 and s531).

288 Edward Street Brisbane
Queensland 4000 Australia
GPO Box 2771, Brisbane Qld 4001
Telephone (07) 3225 1827
Facsimile (07) 3247 3278
Website www.env.qld.gov.au
ABN 87 221 158 786

Schedule 1 of 2 – Specific Conditions

The volume or mass of the contaminated soil shall not exceed 70 cubic metres.

The soil is to be disposed in accordance with the disposal facility approval letter dated 18/02/2002 at Bundaberg City Council Landfill.

The soil must be disposed between 25/02/2002 and 25/05/2002.

Other Conditions:

nil.

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Schedule 2 of 2 – Standard Conditions

1. Volume / mass of contaminated soil

This permit applies to the specified volume or mass only. Any increases to the specified quantity will require a new disposal permit.

2. Disposal time period

Disposal must occur within the dates specified or a new disposal permit must be sought.

3. Excavation and loading

The holder of this disposal permit must take all reasonable precautions necessary to prevent the spillage of contaminated soil during loading and prevent contaminated soil being transported from the site of origin on vehicle tyres and plant and equipment.

4. Transportation

(a) Transporter to be advised of permit conditions

Prior to the removal of contaminated soil, the permit holder must provide a copy of the permit and conditions to the transporter.

(b) Load to be secured

The contaminated soil must be covered in the transportation vehicle to ensure that the contaminated soil or offensive or noxious gases are not released during transport.

(c) Cleaning of vehicles and plant equipment

An effective system must be employed for cleaning of vehicles and plant and equipment which are used to transport or handle contaminated soil which prevents release of contaminants onto any roadway or to any waters or stormwater drainage system.

(d) Spillage

Any spillage of contaminants must be cleaned up as quickly as practicable. Spillages must not be cleaned up by hosing, sweeping or otherwise releasing such contaminants or material to any stormwater drainage system, roadside gutter or waters.

5. Receival and disposal

(a) Licence conditions

The acceptance and disposal of the contaminated soil must comply with the licence conditions and the specific requirements of the disposal facility.

(b) Disposal receipts

Copies of disposal acceptance receipts are to be submitted to the Administering Authority within 10 working days of the date of disposal. The holder of, or person acting under a disposal permit, must comply with the conditions of the permit (s425 of the *Environmental Protection Act 1994*).

Maximum penalty - 100 penalty units.

6. Interim storage

Contaminated soil which is temporarily stored at the site of origin or approved for storage at a separate property must be stockpiled and securely covered and/or managed to ensure that:

- (a) rainwater is drained away from the stockpiles;
- (b) contaminated soil is not transported from the stockpile by wind or rainwater;
- (c) offensive odours or noxious gases are not released; and
- (d) soil underlying the stockpiles is not affected by contamination.

A report is to be provided to the Administering Authority within 28 days of final disposal that verifies that the storage area is fully cleared of contamination.

7. Treatment of soil

(a) Licensed facility

When treatment is to be undertaken at a licensed general waste disposal facility or regulated waste treatment and disposal facility, acceptance receipts must be provided to the Administering Authority within 10 days of contaminated soil delivery. The contamination level in the soil must be reduced to a level agreed by the Administering Authority. When contaminated soil is stored at such facility pending treatment, storage is to be undertaken according to condition 6.

(b) Other treatment sites

(i) Soil remediation and validation report.

The permit holder must provide a report of the soil remediation including chemical test results that validate that the contamination has been lowered to levels agreed with the Administering Authority. The report must provide evidence that the land underlying the treatment activity is not affected by contamination.

(ii) Environmental harm.

Treatment activities must be carried out to ensure that environmental harm is not caused and that contaminants including treatment agents are not released from the site by wind, stormwater or as offensive or noxious gases. The requirements of condition 6 also apply.

(c) Final disposal

When soil contamination has been reduced to levels acceptable to the Administering Authority, the soil may be disposed of as general fill unless otherwise specified in Schedule 1. The location of the final disposal site of the soil is to be identified after treatment by written advice to the Administering Authority.

****End of Document****

19 February 2001

Mr Bal Ramirez
Contaminated Land Unit
Environmental Protection Agency
GPO Box 2771
BRISBANE QLD 4001

Site ID 37404

EPA SOUTHERN REGION			
Correspondence No. <i>SH2002/1379</i>		Barcode No.	
File No.		PART	FOLIO
Action Officer <i>B Byas</i>		Related Items	

**REQUEST FOR DISPOSAL OF SOIL
CALTEX DEPOT
COLLINS STREET
BUNDABERG, QUEENSLAND**



Dear Bal

OTEK Australia Pty Ltd (OTEK) seeks approval from the Environmental Protection Agency (EPA) to transfer hydrocarbon contaminated soil from the site described as Lot 64 on RP65117, Collins Street in Bundaberg, Queensland. OTEK requests approximately 70m³ of hydrocarbon contaminated soil be transferred to the Bundaberg City Council Landfill.

BACKGROUND

The site is a fully operational fuel depot and is listed on the EPA's Environmental Management Register (EMR). The soil to be excavated is currently in situ under a drum platform. This area is to be excavated to a depth of 0.25metres as part of an upgrading of facilities at the site.

SAMPLING AND ANALYSIS

Three soil samples collected from under the drum platform were submitted for analysis for TPH, BTEX and metals. Samples were obtained to a depth of 25cm so as to be representative of the soil to be excavated. Samples were collected using clean hand tools, sealed in laboratory prepared glass jars, labelled, placed on ice and transferred to the laboratory using proper sample preservation procedures and chain-of-custody documentation.

Soil analyses indicate TPH levels marginally above EPA Environmental Investigation Limits (EIL) for TPH C₁₅-C₂₈ and C₂₉-C₃₆ fractions.

BTEX and TPH C₆-C₉ and C₁₀-C₁₄ concentrations were below laboratory Practical Quantitation Limits (PQL). Analysis for metals and PAH detected concentrations below EPA EIL. Hydrocarbon and metal concentrations below Brisbane City Council unlined landfill criteria were indicated for all samples (refer to Table 1). Average hydrocarbon concentrations for the three samples are summarised in the following table:

B2010 - Disposal Request EPA

OTEK Australia Pty Ltd
ACN 054 371 596
ABN 32 054 371 596

29 Enterprise Street
Richlands Qld 4077
Telephone (07) 3717 5100
Facsimile (07) 3717 5155
File A



Melbourne
Sydney
Brisbane
Perth

BTEX					TPH				
Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	C ₆ -C ₉ (mg/kg)	C ₁₀ -C ₁₄ (mg/kg)	C ₁₅ -C ₂₈ (mg/kg)	C ₂₉ -C ₃₆ (mg/kg)	Total TPH (mg/kg)
nd	nd	nd	nd	nd	nd	nd	1000	713	1713

DISPOSAL

The request for disposal of soil to landfill is based on a lack of space at this site to safely remediate the soil without restricting the access of trucks to the site. OTEK and the client are aware of and support the EPA's policy of reducing waste to landfill. OTEK has commenced liaison with the Bundaberg City Council so that the soil can be used as a night cover material in accordance with the landfill's EPA licence requirement to cover waste. The soil can therefore be used as cover material and not as an additional waste volume.

In summary, OTEK seeks approval from the EPA for the transfer of approximately 70m³ of hydrocarbon contaminated soil (as described in the introductory section) from the above referenced site to the Bundaberg City Council landfill with consideration of the following factors:

- A lack of space exists on-site to conduct remediation safely without disrupting the ability of the business to continue operations;
- Soil Analyses indicate TPH concentrations marginally above EPA EIL guidelines. BTEX, PAH and metal concentrations were below laboratory PQLs; and
- OTEK has arranged for the soil to be used as waste cover to help satisfy the landfill's requirement to cover waste.

Excavation of the impacted soil is scheduled for the week commencing 25 February 2002. Please contact this office on (07) 3717 5100 if you have any questions. Thank you for your time and attention on this matter.

Yours sincerely

CTPI 49-Sch4 - Signature

Project Manager

CTPI 49-Sch4 - Signature

Principal Environmental Scientist



Enclosures

Table 1 – Analytical Results (BTEX, TPH & Pb)

Table 2 – Analytical Results (Metals)

Table 3 – Analytical Results (PAH)

Table 4 – Analytical Results (TCLP – PAH and Nickel)

Diagram of soil sample locations

Application for Disposal Permit

Attachment A: Acceptance Letter from the Bundaberg City Council

Attachment B: Analytical Data

Attachment C: Current Certificate of Title for the current location of soil

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QUEENSLAND GOVERNMENT

Department of Environment

EPA SOUTHERN REGION	
Correspondence No.	Hazardous Waste and Contaminated Sites Section
File No.	PART FOLIO
Action Officer	Related Items

Department of Environment
PO Box 155
BRISBANE ALBERT STREET
QLD 4002
Ph: (07) 3225 1827 Fax: (07) 3227 8341

Bal Ramirez

Application for Disposal Permit

Section 118ZZF Environmental Protection Act (1994)

Please note: Failure to lodge all required information can result in your application being rejected and returned to you for completion and resubmission.

Important information (please read before completing this form)

A decision on an application will be made within 14 days of receipt, with a further 10 days allowed for preparation of the permit.

Complete the following: (Attach a separate sheet if more space required)

1. Applicant details

(This is the contact person to whom the disposal permit will be sent and to whom all enquiries will be directed)

Contact name CTPI 49-Sch4 - Personal Information Telephone 3717 5100 Fax 3717 5155
Company name (if applicable) OTER
Postal address PO BOX 107
Richlands QLD Postcode 4077

2. Details of site(s) from which soil is to be removed

Has a site investigation report been submitted to DoE?

- ☐ Yes DoE file number _____
☒ No

Real Property Description (Lot on Registered Plan) Lot 64 on Plan 65117

Street address of site(s) 2 Collins Street Bundaberg

Copy of current Certificate of Title

- ☐ Enclosed with this application
☐ Submitted previously to DoE within a site investigation report

Has the site been used for a notifiable activity as per Schedule 3 of the Environmental Protection Act 1994?

- ☒ Yes (please specify) Fuel Depot
☐ No

Is the site presently being used for a notifiable activity?

- ☒ Yes (please specify) Fuel Depot
☐ No

Is the site currently on the Environmental Management Register or Contaminated Land Register?

- ☒ Yes
☐ No (if no, a notification form must be submitted to DoE)

Has contaminated soil been removed from this site in the past?

- ☐ Yes (if yes, was an application for off-site disposal sought?) ☐ Yes ☒ No
☒ No



3. Approximate volume (in m³) of soil to be removed (allowing for excavation bulking)

60 70

Describe how the volume of soil to be removed was calculated

Dimensions of excavated

Area

4. Dates between which soil will be moved to the disposal location (as per section 118ZZF(7), permits will only be valid between dates stipulated in the disposal permit)

5. Justification of request

Reason(s) why on-site treatment or management not proposed

Insufficient Space

Will validation sampling be undertaken to confirm that all contaminated soil has been removed?

No

6. Description of contamination present in soil to be removed

Contaminants present

TPH & ~~Asbestos~~

Please enclose with your application:

- ☒ Scaled diagram showing soil sampling locations and contamination source(s)
- ☒ Tabulation of soil analysis results
- ☒ TCLP results from relevant soil samples
- ☒ Laboratory reports and sample receipt advices for all soil analyses
- ☒ Explanation of location and depths of samples, how samples were collected, and how sample integrity was maintained.

7. Written acceptance from the owner of site receiving soil

Is the soil being removed to a local government-administered landfill?

- ☒ Yes ☐ Written acceptance from the local government authority is enclosed
- ☐ No (Please complete section 8 of this application form).

Name and address of local government-administered landfill

Bundaberg City Council Landfill
facility - University Drive, Bundaberg.

8. Description of site receiving soil (complete this section only if soil not going to a local government-administered landfill)

Real Property Description (Lot on Registered Plan) Lot _____

on Plan _____

Street address of site _____

Local government authority _____

- ☐ Copy of Certificate of Title provided
- ☐ Written acceptance from registered owner of site is enclosed with this application

TABLE 1
ANALYTICAL SUMMARY - SOIL SAMPLES (BTEX & TPH)
CALTEX DEPOT
2 COLLINS STREET
BUNDABERG, QUEENSLAND

Sample ID	BTEX					TPH				
	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	C ₆ -C ₉ (mg/kg)	C ₁₀ -C ₁₄ (mg/kg)	C ₁₅ -C ₂₈ (mg/kg)	C ₂₉ -C ₃₆ (mg/kg)	Total TPH (mg/kg)
S-2	nd	nd	nd	nd	nd	nd	nd	1400	300	1700
S-3	nd	nd	nd	nd	nd	nd	nd	500	1000	1500
S-4	nd	nd	nd	nd	nd	nd	nd	1100	840	1940
EPA EIL	1	-	-	-	7*	100*	100*	1000*	1000*	1000*
BCC Unlined Landfill Criteria	10	500	300	250	500	500	5000	10000	10000	10000
PQL	0.2	1	1	3	^	5	10	50	50	^
Laboratory Methodology	E1010					E1230	E1221			

Notes:

- Sample ID: S-# denotes a discrete soil sample obtained from the soil surface;
- Samples were obtained on 24 January 2002;
- "nd" denotes not detected above the laboratory Practical Quantitation Limit (PQL);
- "-" denotes threshold not specified by EPA for this analyte;
- "^" denotes totals calculated by OTEK;
- *EPA EIL as stated in Draft Contaminated Land Assessment of service station sites, CHEM Unit (March, 1992);
- EPA Environmental Investigation Levels (EIL) as stated in Draft Guidelines for the Assessment and Management of Contaminated Land in Queensland (May, 1998);
- Landfill acceptance criteria as specified by Brisbane City Council Unlined Landfill Criteria; and
- Shading indicates concentration in excess of EPA EIL.



TABLE 2
ANALYTICAL SUMMARY - SOIL SAMPLES (METALS)
CALTEX DEPOT
2 COLLINS STREET
BUNDABERG, QUEENSLAND

Sample ID	Date Sampled	As Arsenic (mg/kg)	Cd Cadmium (mg/kg)	Cr Chromium (mg/kg)	Cu Copper (mg/kg)	Ni Nickel (mg/kg)	Pb Lead (mg/kg)	Zn Zinc (mg/kg)	Hg Mercury (mg/kg)
S-2	24-1-02	nd	nd	8	nd	5	32	31	0.05
S-3	24-1-02	7	nd	14	nd	20	30	57	0.08
S-4	24-1-02	nd	nd	nd	nd	10	20	8	nd
EPA EIL		20	3	50	60	60	300	200	1
PQL		5	0.5	5	5	2	5	5	0.05
Laboratory Methodology		E5910							

Notes:

- Sample ID: S-# denotes a discrete soil sample obtained from the soil surface;
- "nd" denotes not detected above the laboratory Practical Quantitation Limit (PQL); and
- EPA Environmental Investigation Levels (EIL) as stated in Draft Guidelines for the Assessment and Management of Contaminated Land in Queensland (May, 1998).

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TABLE 3
ANALYTICAL SUMMARY – SOIL SAMPLES (POLYCYCLIC AROMATIC HYDROCARBONS (PAH))
CALTEX DEPOT
2 COLLINS STREET
BUNDABERG, QUEENSLAND

Sample ID	Date Sample Obtained	Naphthalene (mg/kg)	Acenaphthylene (mg/kg)	Acenaphthene (mg/kg)	Fluorene (mg/kg)	Phenanthrene (mg/kg)	Anthracene (mg/kg)	Fluoranthene (mg/kg)	Pyrene (mg/kg)	Benzo[a]anthracene (mg/kg)	Chrysene (mg/kg)	Benzo[b]fluoranthene (mg/kg)	Benzo[k]fluoranthene (mg/kg)	Benzo[a]pyrene (mg/kg)	Indeno[1,2,3-cd]pyrene (mg/kg)	Dibenz[a,h]anthracene (mg/kg)	Benzo[g,h,i]perylene (mg/kg)	Total Polyaromatic Hydrocarbons (mg/kg)
S-3	24-1-02	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BCC Unlined Landfill Criteria		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500
PQL		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5
Laboratory Methodology		E1110																

Notes:

- Sample ID: S-# denotes a discrete soil sample obtained from the soil surface;
- "nd" denotes concentrations not detected above the laboratory Practical Quantitation Limit (PQL); and
- Landfill acceptance criteria as specified by Brisbane City Council.



TABLE 4
ANALYTICAL SUMMARY - SOIL SAMPLES (TCLP – PAH & NICKEL)
CALTEX DEPOT
2 COLLINS STREET
BUNDABERG, QUEENSLAND

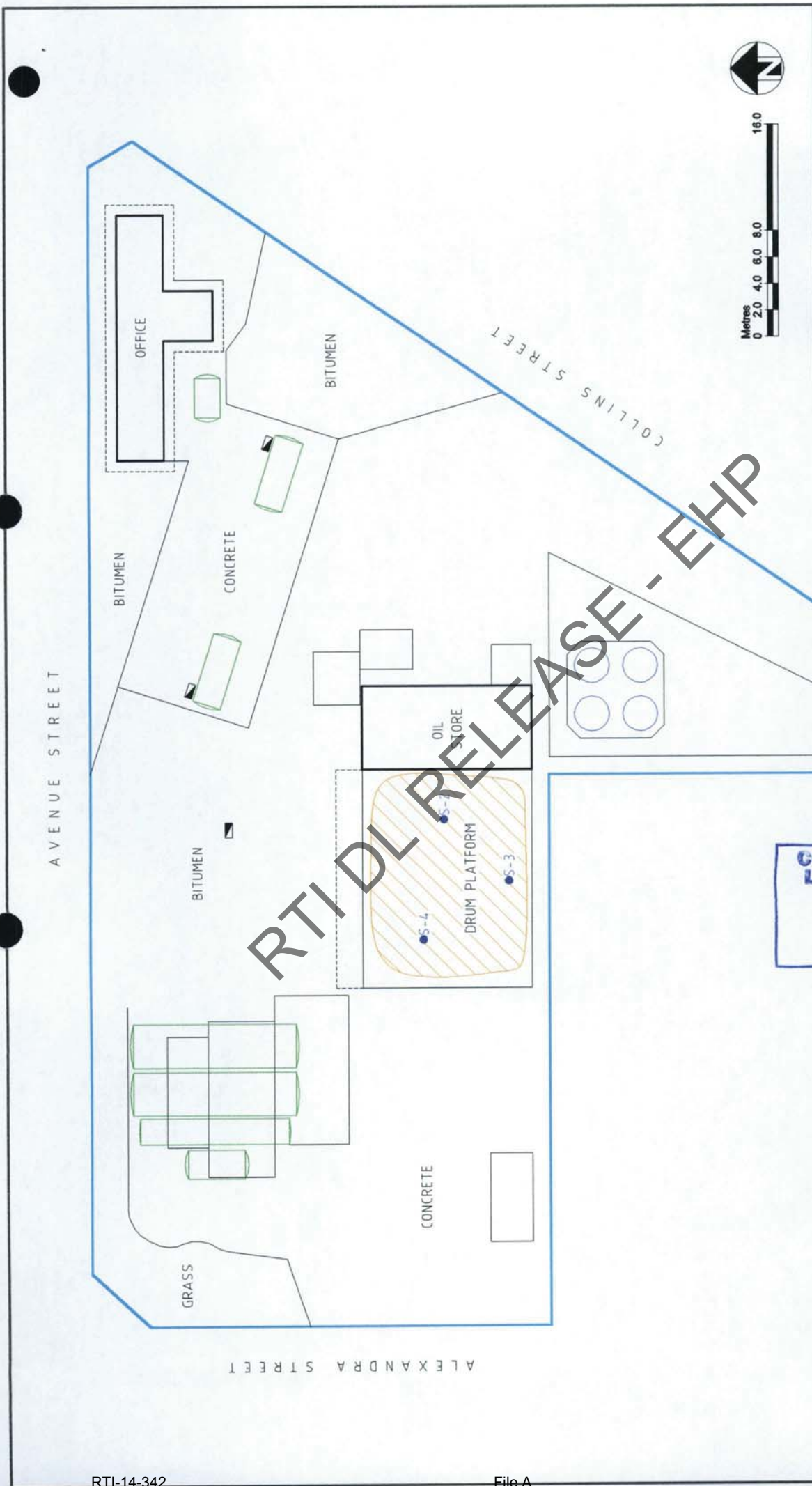
Sample ID	Date Sampled	Total Polycyclic Aromatic Hydrocarbons (PAH) (ug/L)	Nickel Ni (mg/L)
S-3	24-1 02	nd	0.17
BCC Landfill (Unlined)		100ug/L	0.5
PQL		1	0.05
Laboratory Methodology		E6110	E6910

Notes:

- Sample ID: S-# denotes a discrete soil sample obtained from the soil surface.
- "nd" denotes concentrations not detected above the laboratory Practical Quantitation Limit (PQL); and
- Landfill acceptance criteria as specified by Brisbane City Council.

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REPORT REFERENCE		SOIL DISPOSAL	
OTEK <small>AUTUMNAL PTY LTD</small>		Caltex Australia Pty Ltd Bundaberg, QLD	
APPROXIMATE SCALE			
1:400			
DRAWN	DATE	CHECKED	DATE
GSD	12/02/02		
TITLE		JOB # B2010	
		FIG. # 2	

CONTAMINATED
LAND SECTION
20 FEB 2002

Legend

Site Boundary

UST Location

AST Location

Bowser Location

Soil Sample Location

Soil to be removed

Page 14 of 74

CONTAMINATED
LAND SECTION
20 FEB 2002

ATTACHMENT A
ACCEPTANCE LETTER FROM THE BUNDABERG CITY COUNCIL

RTI DL RELEASE - EHP



Bundaberg City Council

5/JAS

Enquiries to:
Mr. J.A. Stanfield

18 February 2002

OTEK Australia Pty Ltd
29 Enterprise Street
RICHLANDS QLD 4077

Dear Rob Sowerby

RE: RECEIPT OF CONTAMINATED SOIL – BUNDABERG LANDFILL

Reference is made to your recent correspondence requesting authority to dispose of approximately seventy (70) cubic metres of hydrocarbon contaminated soil from premises at 2 Collins Street, Bundaberg.

Please be advised that a perusal of the analytical results submitted with your correspondence reveals that the soil falls within the parameters set by the EPA as acceptable at our facility. The Bundaberg City Council is therefore able to accept the soil at its landfill facility in University Drive, Bundaberg.

Because the material will be utilised as cover material on the tipface it would be appreciated if contact could be made with my office prior to commencement of delivery to allow for location planning to occur.

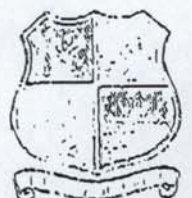
Yours faithfully

J A STANFIELD
CO-ORDINATOR WASTE MANAGEMENT



All communications to be addressed to the Chief Executive Officer

Postal Address: P.O. Box 538, Bundaberg, Qld., 4670
Street Address: 188-190 Bourong Street, Bundaberg, 4670
Website: www.bundabergcity.qld.gov.au
E-mail: ceo@bundaberg.qld.gov.au



A.B.N. 45 538 587 150
Telephone: (07) 4153 9999
(07) 4153 9222
Facsimile: (07) 4152 9155

ATTACHMENT B
ANALYTICAL DATA

RTI DL RELEASE - EHP



INDUSTRIAL SERVICES DIVISION

ABN 30 008 127 802

Correspondence to:
PO Box 514
HORNSBY NSW 1630

5 Kelray Place
ASQUITH NSW 2077
Telephone: (02) 9482 1922
Facsimile: (02) 9482 1734

CERTIFICATE OF ANALYSIS

- Contents :
1. Cover Pages (2)
 2. Analysis Report Pages
 3. QA/QC Appendix
 4. Additional Reports - External (if applicable)
 5. Chain of Custody (if applicable)

Report No. : 2E0226

Attention : CTPI 49-Sch4 - Personal Information

Client : OTEK Australia
: 29 Enterprise Street
: RICHLANDS
: QLD 4077

Samples : 4

Reference/Order : B2010/20304

Project : CALTEX BUNDABERG

Received Samples : 29/01/02

Date Reported : 31/01/02

INSPECTION	PASS	FAIL
CTPI 49-Sch4 - Personal Information		
CTPI 49-Sch4 - Signature		
4/2/02		

Instructions : 29/01/02

PLEASE SEE FOLLOWING PAGE FOR METHOD LISTING

RESULTS

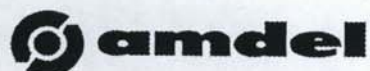
All samples were analysed as received. This report relates specifically to the samples as received. Results relate to the source material only to the extent that the samples as supplied are truly representative of the sample source. This report replaces any preliminary results issued. Note that for methods indicated with "**", NATA accreditation does not cover the performance of this service. Three significant figures (or 2 for <10PQL) are reported for statistical purposes only. Where "Total" concentrations are reported for organic suites of compounds this is the summation of the individual compounds and the PQL is noted for reporting purposes only. This report has been auto-authorized by NATA signatories for PDF format. Refer to the method descriptions for further information.

PLEASE SEE ATTACHED PAGES FOR RESULTS

CTPI 49-Sch4 - Signature

R. Mooney B.Sc.(Hons)Dip. FDA
Technical Services Manager Sydney





Report No. : 2E0226

Please note: Where samples are collected/submitted over several days, the date on which the last samples were analysed or extracted is reported.
Unless Ferrous Iron is determined on site, the possibility of a ferrous-ferric ratio change may occur.

<u>Method</u>	<u>Description</u>	<u>Extracted</u>	<u>Analysed</u>	<u>Authorised</u>
E7500	Moisture (%w/w)	29/01/02	29/01/02	SYS 096
E1230	TPH C6-C9 by Purge & Trap	29/01/02	30/01/02	DUM 094
E1221	TPH (C10-C36)	29/01/02	30/01/02	DUM 094
E1010	Benzene, Toluene, Ethylbenzene & Xylene	29/01/02	30/01/02	DUM 094
E5910	Metals by ICP-AES	29/01/02	31/01/02	SMA 093
E5950	Mercury in Soil	29/01/02	30/01/02	DGO 093

RTI DL RELEASE - EHP



Project : CALTEX BUNDABERG

Page 1 of 2
plus Cover Page

[illegible]

PQL = Practical Quantitation Limit

LNR = Samples Listed not Received

$$nd = \langle PQL$$

-- = Not Applicable

Refer to Amdel standard laboratory qualifier codes for comments.

Soils : mg/kg (ppm) dry weight unless otherwise specified

Waters : mg/L (ppm) unless otherwise specified in Method Header

Leachates : mg/L (ppm) in leachate unless otherwise specified in Method Header

CONTAMINATED
LAND SECTION
20 FEB 2002

Job Number : 2E0226

Client : OTEK Australia

Reference : B2010/20304

Project : CALTEX BUNDABERG

Page 2 of 2

plus Cover Page

[illegible]

PQL = Practical Quantitation Limit

LNR = Samples Listed not Received

$$nd = \angle PQL$$

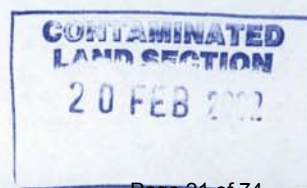
-- = Not Applicable

Refer to Amdel standard laboratory qualifier codes for comments.

Soils : mg/kg (ppm) dry weight unless otherwise specified

Waters : mg/L (ppm) unless otherwise specified in Method Header

Leachates : mg/L (ppm) in leachate unless otherwise specified in
Method Header





This Laboratory is accredited by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of accreditation. This document shall not be reproduced except in full.

NATA Accredited Laboratory Number: 1464

INDUSTRIAL SERVICES DIVISION

ABN 30 008 127 802

Correspondence to:
PO Box 514
HORNSBY NSW 1630

5 Kelray Place
ASQUITH NSW 2077
Telephone: (02) 9482 1922
Facsimile: (02) 9482 1734

CERTIFICATE OF ANALYSIS

Contents :

1. Cover Pages (2)
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5. Chain of Custody (if applicable)

Report No. : 2E0226A

Attention : CTPI 49-Sch4 - Personal Information

Client : OTEK Australia
: 29 Enterprise Street
: RICHLANDS
: QLD 4077

Samples : 1

Reference/Order : B2010/20304

Project : CALTEX BUNDABERG

Received Samples : 29/01/02

Instructions : 04/02/02

Date Reported : 07/02/02

PLEASE SEE FOLLOWING PAGE FOR METHOD LISTING

RESULTS

All samples were analysed as received. This report relates specifically to the samples as received. Results relate to the source material only to the extent that the samples as supplied are truly representative of the sample source. This report replaces any preliminary results issued. Note that for methods indicated with "*", NATA accreditation does not cover the performance of this service. Three significant figures (or 2 for <10PQL) are reported for statistical purposes only. Where "Total" concentrations are reported for organic suites of compounds this is the summation of the individual compounds and the PQL is noted for reporting purposes only. This report has been auto-authorized by NATA signatories for PDF format. Refer to the method descriptions for further information.

PLEASE SEE ATTACHED PAGES FOR RESULTS

CTPI 49-Sch4 - Signature

R. Mooney B.Sc.(Hons)Dip. FDA
Technical Services Manager Sydney



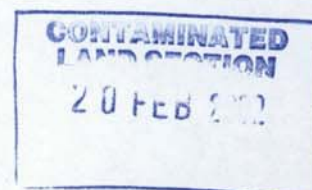


Report No. : 2E0226A

Please note: Where samples are collected/submitted over several days, the date on which the last samples were analysed or extracted is reported.
Unless Ferrous Iron is determined on site, the possibility of a ferrous-ferric ratio change may occur.

<u>Method</u>	<u>Description</u>	<u>Extracted</u>	<u>Analysed</u>	<u>Authorised</u>
E7500	Moisture (%w/w)	07/02/02	07/02/02	KSA 096
E1110	Polycyclic Aromatic Hydrocarbons	06/02/02	06/02/02	MNG 095
E6000	Toxicity Characteristic Leachate Proc.	05/02/02	06/02/02	KSA 096
E6110	PAH'S in Leachate	06/02/02	07/02/02	MNG 095
E6910	Metals in Leachate by ICP-AES	07/02/02	07/02/02	SMA 093

RTI DL RELEASE - EHP





Job Number : 2E0226A

Client : OTEK Australia

Reference : B2010/20304

Project : CALTEX BUNDABERG

Page 1 of 3
plus Cover Page

	Lab No	E46574				
Analyte	Sample Id	S-3				
	PQL					
Moisture Content	1	8%				
E1110 Priority PAH's in Soil						
Naphthalene	0.5	nd				
Acenaphthylene	0.5	nd				
Acenaphthene	0.5	nd				
Fluorene	0.5	nd				
Phenanthrene	0.5	nd				
Anthracene	0.5	nd				
Fluoranthene	0.5	nd				
Pyrene	0.5	nd				
Benz(a)anthracene	0.5	nd				
Chrysene	0.5	nd				
Benzo(b) & (k)fluoranthene	1	nd				
Benzo(a)pyrene	0.5	nd				
Indeno(1.2.3-cd)pyrene	0.5	nd				
Dibenz(a,h)anthracene	0.5	nd				
Benzo(g,h,i)perylene	0.5	nd				
Total USEPA Priority PAHs	0.5	nd				
2-Fluorobiphenyl-SURROGATE	1	106%				
Anthracene-d10-SURROGATE	1	94%				
p-Terphenyl-D14-SURROGATE	1	112%				

PQL = Practical Quantitation Limit

LNR = Samples Listed not Received

nd = <PQL

-- = Not Applicable

Refer to Amdel standard laboratory qualifier codes for comments.

Soils

: mg/kg (ppm) dry weight unless otherwise specified

Waters

: mg/L (ppm) unless otherwise specified in Method Header

Leachates

: mg/L (ppm) in leachate unless otherwise specified in Method Header

LAND SECTION
20 FEB 2002



Job Number : 2E0226A

Client : OTEK Australia

Reference : B2010/20304

Project : CALTEX BUNDABERG

Page 2 of 3

plus Cover Page

Analyte	Lab No	E46574				
	Sample Id	S-3				
	PQL					
E6110 PAH's in Leachate (ug/L)						
Naphthalene	1	nd				
Acenaphthylene	1	nd				
Acenaphthene	1	nd				
Fluorene	1	nd				
Phenanthrene	1	nd				
Anthracene	1	nd				
Fluoranthene	1	nd				
Pyrene	1	nd				
Benz(a)anthracene	1	nd				
Chrysene	1	nd				
Benzo(b) & (k)fluoranthene	2	nd				
Benzo(a)pyrene	1	nd				
Indeno(1.2.3-cd)pyrene	1	nd				
Dibenz(a,h)anthracene	1	nd				
Benzo(g,h,i)perylene	1	nd				
Total PAH	1	nd				
2-Fluorobiphenyl-SURROGATE	1	89%				
Anthracene-d10-SURROGATE	1	102%				
p-terphenyl-d14-SURROGATE	1	122%				

PQL = Practical Quantitation Limit

LNR = Samples Listed not Received

nd = <PQL

-- = Not Applicable

Refer to Amdel standard laboratory qualifier codes for comments.

Soils

: mg/kg (ppm) dry weight unless otherwise specified

Waters

: mg/L (ppm) unless otherwise specified in Method Header

Leachates

: mg/L (ppm) in leachate unless otherwise specified in Method Header



AMDEL LTD

INDUSTRIAL AND ENVIRONMENTAL SERVICES DIVISION

Amdel Limited

ABN 38 0081 27 802

Correspondence to:

PO BOX 514

HORNSBY NSW 1630

5 Kelray Place

ASQUITH NSW 2077

Telephone: (02) 9482 1922

Facsimile: (02) 9482 1734

SAMPLE RECEIPT ACKNOWLEDGMENT

TO: OTEK Australia

ATTN: CTPI 49-Sch4 - Personal Information

FAX NO: 07 3717 5155

FROM: CTPI 49-Sch4 - Personal Information

DATE: 29/01/02

PAGES: 1 of 2

We have received the samples referenced below and they are now being processed in our laboratory. If you have any queries or wish to make any adjustments please do not hesitate to contact David Springer.

Reference/Order:

Project:

Our Reference Number :

Date Received by Amdel :

B2010/20304

CALTEX BUNDABERG

2E0226

29/01/02

ANALYSIS REQUESTED

AMDEL METHOD

NUMBER OF
SAMPLES

ESTIMATED
REPORT DATE (COI)

TPH C6-C9 by Purge & Trap

E1230

3

TPH (C10-C36)

E1221

3

Benzene, Toluene, Ethylbenzene & Xylene

E1010

3

Metals by ICP-AES

E5910

3

Mercury in Soil

E5950

3

Samples on Hold (Soil)

E7600

1

Australian GST

GST

31/01/02

1/2/02

CONTAMINATED
LAND

20 FEB

Sample integrity upon receipt

Samples were received chilled and in good condition

Samples received appropriately preserved for all tests

VOC/SVOC samples were received in teflon lined containers

Volatiles samples received with Zero Headspace

Samples received within recommended holding times

Yes / No / N/A

Yes / No / N/A

Yes / No / N/A

Yes / No / N/A

Yes / No / N/A

* Surcharges for urgent turn-around requests apply to complete or partial results reported within the specified times. Surcharges are calculated and invoiced on discounted price.

THE CONTACT FOR THIS JOB WILL BE CTPI 49-Sch4 - Personal Information

OT&K
AUSTRALIA PTY LTD

OT&K Australia Pty Ltd
29 Enterprise Street (PO Box 107)
RICHMOND QLD 4077
Tel (07) 3717 5100 Fax (07) 3717 5155

CHAIN OF CUSTODY & ANALYSIS REQUEST

PROJECT #	PROJECT NAME	PROJECT MANAGER	COLLECTOR	ANALYSIS REQUIRED						PRESERVATION METHOD			REMARKS					
LAB	ADDRESS	LAB CONTACT	PRELIMINARY RESULTS BY: (FAX)	FINAL RESULTS BY:	MATRIX	SOIL	WATER	PRODUCT	BTEX	TPH	LEAD	As, Cr, Cd, Ni, Pb, Zn, Cu, Hg	OC/OP	PAH	HOLD	ACIDIFIED	OTHER	ICE
S-1 ✓	5 Kelray St. Asquith NSW 2257	AMQDEL	31-1-02	4-1-02		X			X	X		X			X			
S-2 ✓			24-1-02			X			X	X		X						
S-3 ✓			24-1-02			X			X	X		X						
S-4 ✓			24-1-02			X			X	X		X						
AS																		

RECEIVED
29 JAN 2002
2E0226

CONTAMINATED LAND SECTION
20 FEB 2002

Relinquished By:	Date: 25-1-02	Time: 14:38	Received By:	Date: 29-1-02	Time: 9:45	Page 1 of 1
------------------	---------------	-------------	--------------	---------------	------------	-------------

ATTACHMENT C
CURRENT CERTIFICATE OF TITLE FOR THE CURRENT LOCATION OF SOIL

RTI DL RELEASE - EHP



QUEENSLAND
GOVERNMENT

CURRENT TITLE SEARCH

NATURAL RESOURCES & MINES, QUEENSLAND

Request No: 896792

Search Date: 12/02/2002 3:39 pm

Title Reference: 12541142

Date Created: 15/02/1951

Previous Title: 12219134

REGISTERED OWNER

AMPOL PETROLEUM (Q'LAND) PTY LIMITED

ESTATE AND LAND

Estate in Fee Simple

LOT 64 REGISTERED PLAN 65117
County of COOK Parish of KALKIE
Local Government: BUNDABERG

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 10310192 (POR 3)

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - Yes

Certificate No. 1

** End of Current Title Search **

COPYRIGHT THE STATE OF QUEENSLAND (NATURAL RESOURCES & MINES) [2002]

Requested By: External Supervisor

FACSIMILE



Environmental Professionals

Attention:

Bal Thammirey

Company:

EPA - Contaminated Land Unit.

Fax No.:

3247 3278
~~8723~~

From:

CTPI 49-Sch4 - Personal Information

Date:

19-2-02

Pages:

11

(Incl. This One)

FAX Ref:

B2010

CONTAMINATED
LAND SECTION

19 FEB 2002

Documentation relating to the proposed disposal of
soil at the Bundaberg Landfill following
Original Copies including Laboratory reports will be posted this
afternoon

R

CTPI 49-Sch4 - Personal Information

OTEK Australia Pty Ltd
ACN 054 371 596
ABN 32 054 371 596

29 Enterprise Street (PO Box 107)
RICHMOND QLD 4077

Tel: (07) 3717 5100
Fax: (07) 3717 5155

Sydney
Melbourne
Brisbane
Perth

This facsimile is intended solely for the named addressee and may contain information that is confidential and privileged. If you are not the intended recipient and have received this communication in error, please notify the relevant above office immediately and destroy this document.

V4: 15/11/00



19 February 2001

Mr Bal Ramirez
Contaminated Land Unit
Environmental Protection Agency
GPO Box 2771
BRISBANE QLD 4001

**REQUEST FOR DISPOSAL OF SOIL
CALTEX DEPOT
COLLINS STREET
BUNDABERG, QUEENSLAND**



Dear Bal

OTЕК Australia Pty Ltd (OTЕК) seeks approval from the Environmental Protection Agency (EPA) to transfer hydrocarbon contaminated soil from the site described as Lot 64 on RP65117, Collins Street in Bundaberg, Queensland. OТЕК requests approximately 70m³ of hydrocarbon contaminated soil be transferred to the Bundaberg City Council Landfill.

BACKGROUND

The site is a fully operational fuel depot and is listed on the EPA's Environmental Management Register (EMR). The soil to be excavated is currently in situ under a drum platform. This area is to be excavated to a depth of 0.25metres as part of an upgrading of facilities at the site.

SAMPLING AND ANALYSIS

Three soil samples collected from under the drum platform were submitted for analysis for TPH, BTEX and metals. Samples were obtained to a depth of 25cm so as to be representative of the soil to be excavated. Samples were collected using clean hand tools, sealed in laboratory prepared glass jars, labelled, placed on ice and transferred to the laboratory using proper sample preservation procedures and chain-of-custody documentation.

Soil analyses indicate TPH levels marginally above EPA Environmental Investigation Limits (EIL) for TPH C₁₅-C₂₈ and C₂₉-C₃₆ fractions.

BTEX and TPH C₈-C₉ and C₁₀-C₁₄ concentrations were below laboratory Practical Quantitation Limits (PQL). Analysis for metals and PAH detected concentrations below EPA EIL. Hydrocarbon and metal concentrations below Brisbane City Council unlined landfill criteria were indicated for all samples (refer to Table 1). Average hydrocarbon concentrations for the three samples are summarised in the following table:

B2010 - Disposal Request EPA

Page 1

OTЕК Australia Pty Ltd
ACN 054 371 596
ABN 32 054 371 596

29 Enterprise Street
Richlands Qld 4077
Telephone (07) 3717 5100
Facsimile (07) 3717 5155

Melbourne
Sydney
Brisbane
Perth

BTEX					TPH				
Benzene	Toluene	Ethyl-benzene	Xylenes	Total BTEX	C ₆ -C ₉	C ₁₀ -C ₁₄	C ₁₅ -C ₂₀	C ₂₁ -C ₃₀	Total TPH
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
nd	nd	nd	nd	nd	nd	nd	1000	713	1713

DISPOSAL

The request for disposal of soil to landfill is based on a lack of space at this site to safely remediate the soil without restricting the access of trucks to the site. OTEK and the client are aware of and support the EPA's policy of reducing waste to landfill. OTEK has commenced liaison with the Bundaberg City Council so that the soil can be used as a night cover material in accordance with the landfill's EPA licence requirement to cover waste. The soil can therefore be used as cover material and not as an additional waste volume.

In summary, OTEK seeks approval from the EPA for the transfer of approximately 70m³ of hydrocarbon contaminated soil (as described in the introductory section) from the above referenced site to the Bundaberg City Council landfill with consideration of the following factors:

- A lack of space exists on-site to conduct remediation safely without disrupting the ability of the business to continue operations;
- Soil Analyses indicate TPH concentrations marginally above EPA EIL guidelines. BTEX, PAH and metal concentrations were below laboratory PQLs; and
- OTEK has arranged for the soil to be used as waste cover to help satisfy the landfill's requirement to cover waste.

Excavation of the impacted soil is scheduled for the week commencing 25 February 2002. Please contact this office on (07) 3717 5100 if you have any questions. Thank you for your time and attention on this matter.

Yours sincerely

CTPI 49-Sch4 - Signature

Project Manager

CTPI 49-Sch4 - Signature

Principal Environmental Scientist

CONTAMINATED
LAND SECTION
19 FEB 2002

Enclosures

Table 1 – Analytical Results (BTEX, TPH & Pb)

Table 2 – Analytical Results (Metals)

Table 3 – Analytical Results (PAH)

Table 4 – Analytical Results (TCLP – PAH and Nickel)

Diagram of soil sample locations

Application for Disposal Permit

Attachment A: Acceptance Letter from the Bundaberg City Council

Attachment B: Analytical Data

Attachment C: Current Certificate of Title for the current location of soil

RTI DL RELEASE - EHP

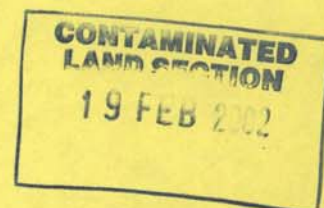


TABLE 1
ANALYTICAL SUMMARY - SOIL SAMPLES (BTEX & TPH)
CALTEX DEPOT
2 COLLINS STREET
BUNDABERG, QUEENSLAND

Sample ID	BTEX					TPH				
	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	C ₈ -C ₉ (mg/kg)	C ₁₀ -C ₁₄ (mg/kg)	C ₁₅ -C ₂₈ (mg/kg)	C ₂₉ -C ₃₆ (mg/kg)	Total TPH (mg/kg)
S-2	nd	nd	nd	nd	nd	nd	nd	nd	300	nd
S-3	nd	nd	nd	nd	nd	nd	nd	500	nd	nd
S-4	nd	nd	nd	nd	nd	nd	nd	nd	840	nd
EPA EIL	1	-	-	-	7*	100*	100*	1000*	1000*	1000*
BCC Unlined Landfill Criteria	10	500	300	250	500	500	5000	10000	10000	10000
PQL	0.2	1	1	3	^	5	10	50	50	^
Laboratory Methodology	E1010					E1230	E1221			

Notes:

- Sample ID: S-# denotes a discrete soil sample obtained from the soil surface;
- Samples were obtained on 24 January 2002;
- "nd" denotes not detected above the laboratory Practical Quantitation Limit (PQL);
- "-" denotes threshold not specified by EPA for this analyte;
- "*" denotes totals calculated by OTEK;
- *EPA EIL as stated in Draft Contaminated Land Assessment of service station sites, CHEM Unit (March, 1992);
- EPA Environmental Investigation Levels (EIL) as stated in Draft Guidelines for the Assessment and Management of Contaminated Land in Queensland (May, 1998);
- Landfill acceptance criteria as specified by Brisbane City Council Unlined Landfill Criteria; and
- Shading indicates concentration in excess of EPA EIL.

**CONTAMINATED
LAND SECTION**
 19 FEB 2002

TABLE 2
ANALYTICAL SUMMARY - SOIL SAMPLES (METALS)
CALTEX DEPOT
2 COLLINS STREET
BUNDABERG, QUEENSLAND

Sample ID	Date Sampled	As Arsenic (mg/kg)	Cd Cadmium (mg/kg)	Cr Chromium (mg/kg)	Cu Copper (mg/kg)	Ni Nickel (mg/kg)	Pb Lead (mg/kg)	Zn Zinc (mg/kg)	Hg Mercury (mg/kg)
S-2	24-1-02	nd	nd	8	nd	5	32	31	0.05
S-3	24-1-02	7	nd	14	nd	20	30	57	0.08
S-4	24-1-02	nd	nd	nd	nd	10	20	8	nd
EPA EIL		20	3	50	60	60	300	200	1
PQL		5	0.5	5	5	2	5	5	0.05
Laboratory Methodology		E5910							

Notes:

- Sample ID: S-# denotes a discrete soil sample obtained from the soil surface;
- "nd" denotes not detected above the laboratory Practical Quantitation Limit (PQL); and
- EPA Environmental Investigation Levels (EIL) as stated in Draft Guidelines for the Assessment and Management of Contaminated Land in Queensland (May, 1998).



TABLE 3
ANALYTICAL SUMMARY – SOIL SAMPLES (POLYCYCLIC AROMATIC HYDROCARBONS (PAH))
CALTEX DEPOT
2 COLLINS STREET
BUNDABERG, QUEENSLAND

Sample ID	Date Sample Obtained	Naphthalene (mg/kg)	Acenaphthylene (mg/kg)	Acenaphthene (mg/kg)	Fluorene (mg/kg)	Phenanthrene (mg/kg)	Anthracene (mg/kg)	Fluoranthene (mg/kg)	Pyrene (mg/kg)	Benzo[a]anthracene (mg/kg)	Chrysene (mg/kg)	Benzo[b]fluoranthene (mg/kg)	Benzo[k]fluoranthene (mg/kg)	Benzo[a]pyrene (mg/kg)	Indeno[1,2,3-cd]pyrene (mg/kg)	Dibenz[a,h]anthracene (mg/kg)	Benzo[g,h,i]perylene (mg/kg)	Total Polyaromatic Hydrocarbons (mg/kg)
S-3	24-1-02	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BCC Unlined Landfill Criteria																		500
PQL		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5
Laboratory Methodology		E1110																

Notes:

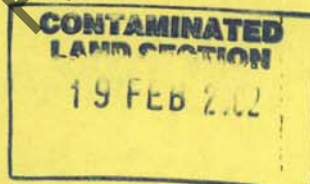
- Sample ID: S-# denotes a discrete soil sample obtained from the soil surface;
- "nd" denotes concentrations not detected above the laboratory Practical Quantitation Limit (PQL); and
- Landfill acceptance criteria as specified by Brisbane City Council.

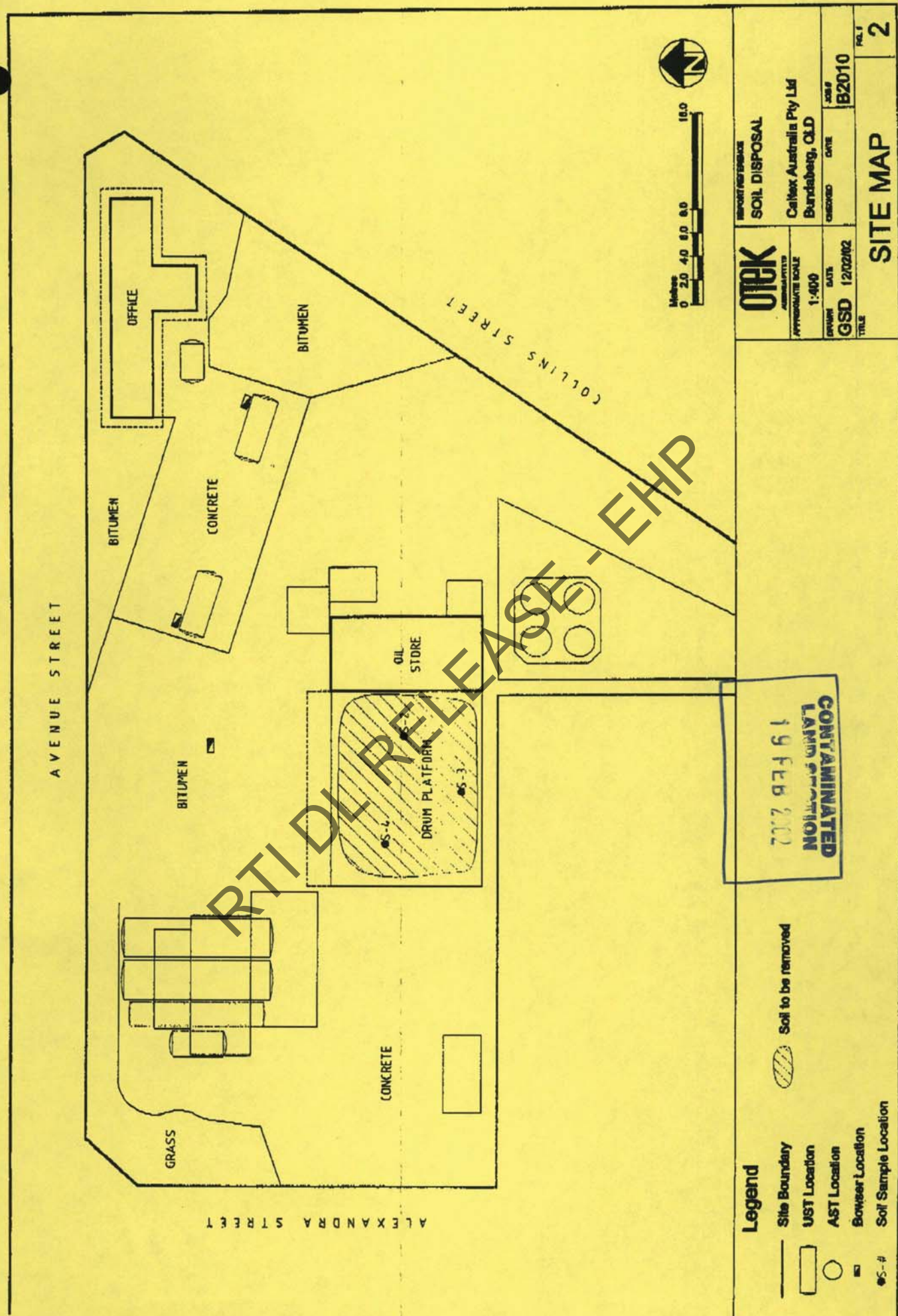
TABLE 4
ANALYTICAL SUMMARY - SOIL SAMPLES (TCLP - PAH & NICKEL)
CALTEX DEPOT
2 COLLINS STREET
BUNDABERG, QUEENSLAND

Sample ID	Date Sampled	Total Polycyclic Aromatic Hydrocarbons (PAH) (ug/L)	Nickel NI (mg/L)
S-3	24-1 02	nd	0.17
BCC Landfill (Unlined)		100ug/L	0.5
PQL		1	0.05
Laboratory Methodology		E6110	E6910

Notes:

- Sample ID: S-# denotes a discrete soil sample obtained from the soil surface;
- "nd" denotes concentrations not detected above the laboratory Practical Quantitation Limit (PQL); and
- Landfill acceptance criteria as specified by Brisbane City Council.







QUEENSLAND GOVERNMENT
Department of Environment

Hazardous Waste and Contaminated Sites Section
Department of Environment
PO Box 155
BRISBANE ALBERT STREET
QLD 4002
Ph: (07) 3225 1827 Fax: (07) 3227 8341

Application for Disposal Permit

Section 118ZZF Environmental Protection Act (1994)

Please note: Failure to lodge all required information can result in your application being rejected and returned to you for completion and resubmission.

Important information (please read before completing this form)

A decision on an application will be made within 14 days of receipt, with a further 10 days allowed for preparation of the permit.

Complete the following: (Attach a separate sheet if more space required)

1. Applicant details

(This is the contact person to whom the disposal permit will be sent and to whom all enquiries will be directed)

Contact name CTPI 49-Sch4 - Personal Information Telephone 3717 5100 Fax 3717 5155
Company name (if applicable) OTEK
Postal address PO BOX 107
Richlands QLD Postcode 4077

2. Details of site(s) from which soil is to be removed

Has a site investigation report been submitted to DoE?

- ☐ Yes DoE file number _____
☒ No

Real Property Description (Lot on Registered Plan) Lot 64 on Plan 65117

Street address of site(s) 2 Collins Street Bundaberg

Copy of current Certificate of Title

- ☐ Enclosed with this application
☐ Submitted previously to DoE within a site investigation report

Has the site been used for a notifiable activity as per Schedule 3 of the Environmental Protection Act 1994?

- ☒ Yes (please specify) Fuel Depot.
☐ No

Is the site presently being used for a notifiable activity?

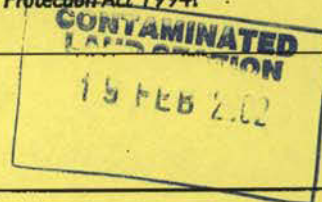
- ☒ Yes (please specify) Fuel Depot
☐ No

Is the site currently on the Environmental Management Register or Contaminated Land Register?

- ☒ Yes
☐ No (if no, a notification form must be submitted to DoE)

Has contaminated soil been removed from this site in the past?

- ☐ Yes (if yes, was an application for off-site disposal sought?) ☐ Yes ☐ No
☒ No



TOTAL P.10

**FACSIMILE**

Environmental Professionals

Attention: *Bail Ramirez*Company: *EPA - Contaminated Unit.*Fax No.: *3247 3278*

From: [Redacted] CTPI 49-Sch4 - Personal Information

Date: *20/02/02*Pages: *27* (Incl. This One)FAX Ref: *B2010*

Dear Mr Ramirez

[Redacted] CTPI 49-Sch4 - Personal Information

*has asked that the
following be faxed through to you.
The original was sent in last night's
post.*

Regards,

[Redacted] CTPI 49-Sch4 - Personal Information



OTEK Australia Pty Ltd
ACN 054 371 596
ABN 32 054 371 596

29 Enterprise Street (PO Box 107)
RICHLANDS QLD 4077

Tel: (07) 3717 5100
Fax: (07) 3717 5155

Sydney
Melbourne
Brisbane
Perth

This facsimile is intended solely for the named addressee and may contain information that is confidential and privileged. If you are not the intended recipient and have received this communication in error, please notify the relevant office immediately and destroy this document.

V4: 18/11/00



QUEENSLAND GOVERNMENT
Department of Environment

Hazardous Waste and Contaminated Sites Section
Department of Environment
PO Box 155
BRISBANE ALBERT STREET
QLD 4002
Ph: (07) 3225 1827 Fax: (07) 3227 8341

Application for Disposal Permit

Section 118ZZF Environmental Protection Act (1994)

Please note: Failure to lodge all required information can result in your application being rejected and returned to you for completion and resubmission.

Important information (please read before completing this form)

A decision on an application will be made within 14 days of receipt, with a further 10 days allowed for preparation of the permit.

Complete the following: (Attach a separate sheet if more space required)

1. Applicant details

(This is the contact person to whom the disposal permit will be sent and to whom all enquiries will be directed)

Contact name CTPI 49-Sch4 - Personal Information Telephone 3717 5100 Fax 3717 5455
Company name (if applicable) OTEK
Postal address PO BOX 107
Richlands QLD Postcode 4077

2. Details of site(s) from which soil is to be removed

Has a site investigation report been submitted to DoE?

- ☐ Yes DoE file number _____
☒ No

Real Property Description (Lot on Registered Plan) Lot 64 on Plan 65117

Street address of site(s) 2 Collins Street Bundaberg

Copy of current Certificate of Title

- ☐ Enclosed with this application
☐ Submitted previously to DoE within a site investigation report

Has the site been used for a notifiable activity as per Schedule 3 of the Environmental Protection Act 1994?

- ☒ Yes (please specify) Fuel Depot
☐ No

Is the site presently being used for a notifiable activity?

- ☒ Yes (please specify) Fuel Depot
☐ No

Is the site currently on the Environmental Management Register or Contaminated Land Register?

- ☒ Yes
☐ No (if no, a notification form must be submitted to DoE)

Has contaminated soil been removed from this site in the past?

- ☐ Yes (if yes, was an application for off-site disposal sought?) ☐ Yes ☐ No
☒ No

3. Approximate volume (in m³) of soil to be removed (allowing for excavation bulking)60 70

Describe how the volume of soil to be removed was calculated

Dimensions of excavatedArea**4. Dates between which soil will be moved to the disposal location (as per section 118ZZF(7), permits will only be valid between dates stipulated in the disposal permit)****5. Justification of request**

Reason(s) why on-site treatment or management not proposed

Insufficient Space

Will validation sampling be undertaken to confirm that all contaminated soil has been removed?

No**6. Description of contamination present in soil to be removed**

Contaminants present

TPH - ~~TPH~~

Please enclose with your application:

- ☒ Scaled diagram showing soil sampling locations and contamination source(s)
- ☒ Tabulation of soil analysis results
- ☒ TCLP results from relevant soil samples
- ☒ Laboratory reports and sample receipt advices for all soil analyses
- ☒ Explanation of location and depths of samples, how samples were collected, and how sample integrity was maintained.

7. Written acceptance from the owner of site receiving soil

Is the soil being removed to a local government-administered landfill?

- ☒ Yes ☐ Written acceptance from the local government authority is enclosed
- ☐ No (Please complete section 8 of this application form).

Name and address of local government-administered landfill

Bundaberg City Council Landfill
facility - University Drive, Bundaberg.**8. Description of site receiving soil (complete this section only if soil not going to a local government-administered landfill)**

Real Property Description (Lot on Registered Plan) Lot _____ on Plan _____

Street address of site _____

Local government authority _____

- ☐ Copy of Certificate of Title provided
- ☐ Written acceptance from registered owner of site is enclosed with this application



19 February 2001

Mr Bal Ramirez
Contaminated Land Unit
Environmental Protection Agency
GPO Box 2771
BRISBANE QLD 4001

**REQUEST FOR DISPOSAL OF SOIL
CALTEX DEPOT
COLLINS STREET
BUNDABERG, QUEENSLAND**

Dear Bal

OTEK Australia Pty Ltd (OTEK) seeks approval from the Environmental Protection Agency (EPA) to transfer hydrocarbon contaminated soil from the site described as Lot 64 on RP65117, Collins Street in Bundaberg, Queensland. OTEK requests approximately 70m³ of hydrocarbon contaminated soil be transferred to the Bundaberg City Council Landfill.

BACKGROUND

The site is a fully operational fuel depot and is listed on the EPA's Environmental Management Register (EMR). The soil to be excavated is currently in situ under a drum platform. This area is to be excavated to a depth of 0.25metres as part of an upgrading of facilities at the site.

SAMPLING AND ANALYSIS

Three soil samples collected from under the drum platform were submitted for analysis for TPH, BTEX and metals. Samples were obtained to a depth of 25cm so as to be representative of the soil to be excavated. Samples were collected using clean hand tools, sealed in laboratory prepared glass jars, labelled, placed on ice and transferred to the laboratory using proper sample preservation procedures and chain-of-custody documentation.

Soil analyses indicate TPH levels marginally above EPA Environmental Investigation Limits (EIL) for TPH C₁₅-C₂₆ and C₂₉-C₃₆ fractions.

BTEX and TPH C₆-C₉ and C₁₀-C₁₄ concentrations were below laboratory Practical Quantitation Limits (PQL). Analysis for metals and PAH detected concentrations below EPA EIL. Hydrocarbon and metal concentrations below Brisbane City Council unlined landfill criteria were indicated for all samples (refer to Table 1). Average hydrocarbon concentrations for the three samples are summarised in the following table:

B2010 - Disposal Request EPA

Page 1

OTEK Australia Pty Ltd
ACN 054 371 596
ABN 32 054 371 596

29 Enterprise Street
Richlands Qld 4077
Telephone (07) 3717 5100
Facsimile (07) 3717 5155

Melbourne
Sydney
Brisbane
Perth

BTEX					TPH				
Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	C ₈ -C ₉ (mg/kg)	C ₁₀ -C ₁₄ (mg/kg)	C ₁₅ -C ₂₈ (mg/kg)	C ₂₉ -C ₃₆ (mg/kg)	Total TPH (mg/kg)
nd	nd	nd	nd	nd	nd	nd	1000	713	1713

DISPOSAL

The request for disposal of soil to landfill is based on a lack of space at this site to safely remediate the soil without restricting the access of trucks to the site. OTEK and the client are aware of and support the EPA's policy of reducing waste to landfill. OTEK has commenced liaison with the Bundaberg City Council so that the soil can be used as a night cover material in accordance with the landfill's EPA licence requirement to cover waste. The soil can therefore be used as cover material and not as an additional waste volume.

In summary, OTEK seeks approval from the EPA for the transfer of approximately 70m³ of hydrocarbon contaminated soil (as described in the introductory section) from the above referenced site to the Bundaberg City Council landfill with consideration of the following factors:

- A lack of space exists on-site to conduct remediation safely without disrupting the ability of the business to continue operations;
- Soil Analyses indicate TPH concentrations marginally above EPA EIL guidelines. BTEX, PAH and metal concentrations were below laboratory PQLs; and
- OTEK has arranged for the soil to be used as waste cover to help satisfy the landfill's requirement to cover waste.

Excavation of the impacted soil is scheduled for the week commencing 25 February 2002. Please contact this office on (07) 3717 5100 if you have any questions. Thank you for your time and attention on this matter.

Yours sincerely

CTPI 49-Sch4 - Signature

Project Manager

CTPI 49-Sch4 - Signature

Principal Environmental Scientist

Enclosures

Table 1 – Analytical Results (BTEX, TPH & Pb)

Table 2 – Analytical Results (Metals)

Table 3 – Analytical Results (PAH)

Table 4 – Analytical Results (TCLP – PAH and Nickel)

Diagram of soil sample locations

Application for Disposal Permit

Attachment A: Acceptance Letter from the Bundaberg City Council

Attachment B: Analytical Data

Attachment C: Current Certificate of Title for the current location of soil

RTI DL RELEASE - EHP

TABLE 1
ANALYTICAL SUMMARY - SOIL SAMPLES (BTEX & TPH)
CALTEX DEPOT
2 COLLINS STREET
BUNDABERG, QUEENSLAND

Sample ID	BTEX					TPH				
	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	C ₆ -C ₉ (mg/kg)	C ₁₀ -C ₁₄ (mg/kg)	C ₁₅ -C ₂₈ (mg/kg)	C ₂₉ -C ₃₆ (mg/kg)	Total TPH (mg/kg)
S-2	nd	nd	nd	nd	nd	nd	nd		300	
S-3	nd	nd	nd	nd	nd	nd	nd	500		
S-4	nd	nd	nd	nd	nd	nd	nd		840	
EPA EIL	1	-	-	-	7*	100*	100*	1000*	1000*	1000*
BCC Unlined Landfill Criteria	10	500	300	250	500	500	5000	10000	10000	10000
PQL	0.2	1	1	3	^	5	10	50	50	^
Laboratory Methodology	E1010					E1230	E1221			

Notes:

- Sample ID: S-# denotes a discrete soil sample obtained from the soil surface;
- Samples were obtained on 24 January 2002;
- "nd" denotes not detected above the laboratory Practical Quantitation Limit (PQL);
- "-" denotes threshold not specified by EPA for this analyte;
- "^" denotes totals calculated by OTEK;
- *EPA EIL as stated in Draft Contaminated Land Assessment of service station sites, CHEM Unit (March, 1992);
- EPA Environmental Investigation Levels (EIL) as stated in Draft Guidelines for the Assessment and Management of Contaminated Land in Queensland (May, 1998);
- Landfill acceptance criteria as specified by Brisbane City Council Unlined Landfill Criteria; and
- Shading indicates concentration in excess of EPA EIL.

TABLE 2
ANALYTICAL SUMMARY - SOIL SAMPLES (METALS)
CALTEX DEPOT
2 COLLINS STREET
BUNDABERG, QUEENSLAND

Sample ID	Date Sampled	As Arsenic (mg/kg)	Cd Cadmium (mg/kg)	Cr Chromium (mg/kg)	Cu Copper (mg/kg)	Ni Nickel (mg/kg)	Pb Lead (mg/kg)	Zn Zinc (mg/kg)	Hg Mercury (mg/kg)
S-2	24-1-02	nd	nd	8	nd	5	32	31	0.05
S-3	24-1-02	7	nd	14	nd	20	30	57	0.08
S-4	24-1-02	nd	nd	nd	nd	10	20	8	nd
EPA EIL		20	3	50	60	60	300	200	1
PQL		5	0.5	5	5	2	5	5	0.05
Laboratory Methodology		E5910							

Notes:

- Sample ID: S-# denotes a discrete soil sample obtained from the soil surface;
- "nd" denotes not detected above the laboratory Practical Quantitation Limit (PQL); and
- EPA Environmental Investigation Levels (EIL) as stated in Draft Guidelines for the Assessment and Management of Contaminated Land in Queensland (May, 1998).

TABLE 3
ANALYTICAL SUMMARY - SOIL SAMPLES (POLYCYCLIC AROMATIC HYDROCARBONS (PAH))
CALTEX DEPOT
2 COLLINS STREET
BUNDABERG, QUEENSLAND

Sample ID	Date Sample Obtained	Naphthalene (mg/kg)	Acenaphthylene (mg/kg)	Acenaphthene (mg/kg)	Fluorene (mg/kg)	Phenanthrene (mg/kg)	Anthracene (mg/kg)	Fluoranthene (mg/kg)	Pyrene (mg/kg)	Benzo[a]anthracene (mg/kg)	Chrysene (mg/kg)	Benzo[b]fluoranthene (mg/kg)	Benzo[k]fluoranthene (mg/kg)	Benzo[a]pyrene (mg/kg)	Indeno[1,2,3-cd]pyrene (mg/kg)	Dibenz[a,h]anthracene (mg/kg)	Benzo[g,h,i]perylene (mg/kg)	Total Polycyclic Hydrocarbons (mg)
S-3	24-1-02	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
BCC Unlined Landfill Criteria		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500
PQL		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.5	0.5
Laboratory Methodology		E1110																

Notes:

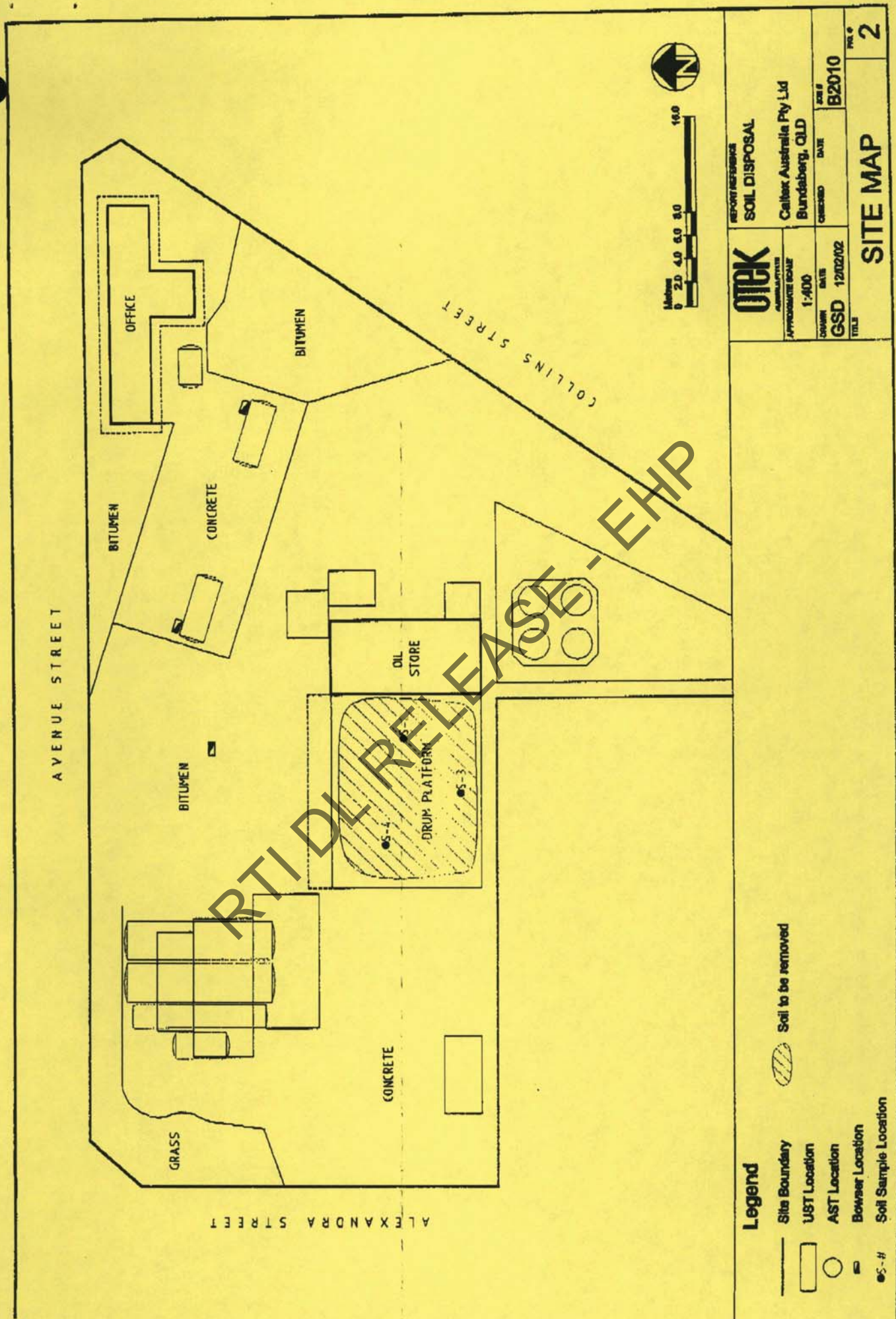
- Sample ID: S-# denotes a discrete soil sample obtained from the soil surface;
- "nd" denotes concentrations not detected above the laboratory Practical Quantitation Limit (PQL); and
- Landfill acceptance criteria as specified by Brisbane City Council.

TABLE 4
ANALYTICAL SUMMARY - SOIL SAMPLES (TCLP - PAH & NICKEL)
CALTEX DEPOT
2 COLLINS STREET
BUNDABERG, QUEENSLAND

Sample ID	Date Sampled	Total Polycyclic Aromatic Hydrocarbons (PAH) (ug/L)	Nickel NI (mg/L)
S-3	24-1 02	nd	0.17
BCC Landfill (Unlined)		100ug/L	0.5
PQL		1	0.05
Laboratory Methodology		E6110	E6910

Notes:

- Sample ID: S-# denotes a discrete soil sample obtained from the soil surface;
- "nd" denotes concentrations not detected above the laboratory Practical Quantitation Limit (PQL); and
- Landfill acceptance criteria as specified by Brisbane City Council.



ATTACHMENT A
ACCEPTANCE LETTER FROM THE BUNDABERG CITY COUNCIL

RTI DL RELEASE - EHP

B2010
V1: 03/03/00
TEMP 011

Bundaberg City Council

5/JAS

Enquiries to:
Mr. J.A. Stanfield

18 February 2002

OTEK Australia Pty Ltd
29 Enterprise Street
RICHLANDS QLD 4077

Dear Rob Sowerby

RE: RECEIPT OF CONTAMINATED SOIL - BUNDABERG LANDFILL

Reference is made to your recent correspondence requesting authority to dispose of approximately seventy (70) cubic metres of hydrocarbon contaminated soil from premises at 2 Collins Street, Bundaberg.

Please be advised that a perusal of the analytical results submitted with your correspondence reveals that the soil falls within the parameters set by the EPA as acceptable at our facility. The Bundaberg City Council is therefore able to accept the soil at its landfill facility in University Drive, Bundaberg.

Because the material will be utilised as cover material on the tipface it would be appreciated if contact could be made with my office prior to commencement of delivery to allow for location planning to occur.

Yours faithfully

**J A STANFIELD
CO-ORDINATOR WASTE MANAGEMENT**

All communications to be addressed to the Chief Executive Officer

Postal Address: P.O. Box 538, Bundaberg, Qld., 4670
Street Address: 188-190 Bourong Street, Bundaberg, 4670
Website: www.bundabergcity.qld.gov.au
E-mail: ceo@bundaberg.qld.gov.au



A.B.N. 45 538 587 150
Telephone: (07) 4153 9889
(07) 4153 9222
Facsimile: (07) 4152 9155

**ATTACHMENT B
ANALYTICAL DATA**

RTI DL RELEASE - EHP

B2010
V1: 03/03/00
TEMP 011



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NATA Accredited Laboratory Number: 1444

INDUSTRIAL SERVICES DIVISION

ABN 30 008 127 802

Correspondence to:
PO Box 514
HORNSBY NSW 1630

5 Kellray Place
ASQUITH NSW 2077
Telephone: (02) 9482 1922
Facsimile: (02) 9482 1734

CERTIFICATE OF ANALYSIS

Contents :

1. Cover Pages (2)
2. Analysis Report Pages
3. QA/QC Appendix
4. Additional Reports - External (if applicable)
5. Chain of Custody (if applicable)

Report No. : 2E0226**Attention**

CTPI 49-Sch4 - Personal Information

Client

: OTEK Australia
: 29 Enterprise Street
: RICHLANDS
: QLD 4077

Samples

: 4

Reference/Order

: B2010/20304

Project

: CALTEX BUNDABERG

Received Samples

: 29/01/02

Instructions : 29/01/02**Date Reported**

: 31/01/02

INSPECTOR	PASS
CTPI 49-Sch4 - Personal Information	
SIGNATURE	CTPI 49-Sch4 - Signature
DATE	4/2/02

PLEASE SEE FOLLOWING PAGE FOR METHOD LISTING

RESULTS

All samples were analyzed as received. This report relates specifically to the samples as received. Results relate to the source material only to the extent that the samples as supplied are truly representative of the sample source. This report replaces any preliminary results issued. Note that for methods indicated with "*", NATA accreditation does not cover the performance of this service. Three significant figures (or 2 for <10PQL) are reported for statistical purposes only. Where "Total" concentrations are reported for organic suites of compounds this is the summation of the individual compounds and the PQL is noted for reporting purposes only. This report has been auto-authorized by NATA signatories for PDF format. Refer to the method descriptions for further information.

PLEASE SEE ATTACHED PAGES FOR RESULTS

CTPI 49-Sch4 - Signature

R. Mooney B.Sc.(Hons)Dip. FDA
Technical Services Manager Sydney



Report No. : 2E0226

Please note: Where samples are collected/submitted over several days, the date on which the last samples were analysed or extracted is reported.

Unless Ferrous Iron is determined on site, the possibility of a ferrous-ferric ratio change may occur.

<u>Method</u>	<u>Description</u>	<u>Extracted</u>	<u>Analysed</u>	<u>Authorised</u>
E7500	Moisture (%w/w)	29/01/02	29/01/02	SYS 096
E1230	TPH C6-C9 by Purge & Trap	29/01/02	30/01/02	DUM 094
E1221	TPH (C10-C36)	29/01/02	30/01/02	DUM 094
E1010	Benzene, Toluene, Ethylbenzene & Xylene	29/01/02	30/01/02	DUM 094
E5910	Metals by ICP-AES	29/01/02	31/01/02	SMA 093
E5950	Mercury in Soil	29/01/02	30/01/02	DGO 093

RTI DL RELEASE - EHP



Job Number : 2E0226

Client : OTEK Australia

Reference : B2010/20304

Project : CALTEX BUNDABERG

Page 1 of 2
plus Cover Page

Analyte	Lab No	E46573	E46574	E46575
	Sample Id	S-2	S-3	S-4
Moisture Content	POL			
	1	2%	8%	4%
E1230 TPH in Soil by Purge & Trap/GC-MS				
C6-C9 Fraction	5	nd	nd	nd
E1221 TPH in Soil				
C10-C14 Fraction	10	nd	nd	nd
C15-C28 Fraction	50	1400	500	1100
C29-C36 Fraction	50	300	1000	840
E1010 BTEX (P&T) in Soil				
Benzene	0.2	nd	nd	nd
Toluene	1	nd	nd	nd
Ethylbenzene	1	nd	nd	nd
o&p-Xylene	2	nd	nd	nd
m-Xylenes	1	nd	nd	nd
4-Bromofluorobenzene-SURROGATE	1	91%	99%	93%

PQL = Practical Quantitation Limit

LNR = Samples Listed not Received

$$nd = \angle PQL$$

-- = Not Applicable

Refer to Amdel standard laboratory qualifier codes for comments.

Soils : mg/kg (ppm) dry weight unless otherwise specified
Waters : mg/L (ppm) unless otherwise specified in Method Header
Leachates : mg/L (ppm) in leachate unless otherwise specified in Method Header



Job Number : 2E0226

Client : OTEK Australia

Reference : B2010/20304

Project : CALTEX BUNDABERG

Page 2 of 2

plus Cover Page

[illegible]

PQL = Practical Quantitation Limit

LNR = Samples Listed not Received

$$nd = \angle PQL$$

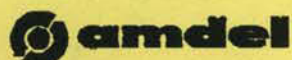
-- = Not Applicable

Refer to Amdel standard laboratory qualifier codes for comments.

Soils : mg/kg (ppm) dry weight unless otherwise specified

Waters : mg/L (ppm) unless otherwise specified in Method Header

Leachates : mg/L (ppm) in leachate unless otherwise specified in
Method Header



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NATA Accredited Laboratory Number: 1484

INDUSTRIAL SERVICES DIVISION

ABN 30 008 127 802

Correspondence to:
PO Box 514
HORNSBY NSW 1630

5 Kerkay Place
ASQUITH NSW 2077
Telephone: (02) 9482 1822
Facsimile: (02) 9482 1734

CERTIFICATE OF ANALYSIS

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Report No. : 2E0226A

Attention : CTPI 49-Sch4 - Personal Information

Client : OTEK Australia
: 29 Enterprise Street
: RICHLANDS
: QLD 4077

Samples : 1

Reference/Order : B2010/20304

Project : CALTEX BUNDABERG

Received Samples : 29/01/02 Instructions : 04/02/02

Date Reported : 07/02/02

PLEASE SEE FOLLOWING PAGE FOR METHOD LISTING

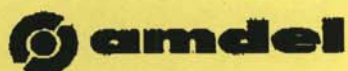
RESULTS

All samples were analysed as received. This report relates specifically to the samples as received. Results relate to the source material only to the extent that the samples as supplied are truly representative of the sample source. This report replaces any preliminary results issued. Note that for methods indicated with "**", NATA accreditation does not cover the performance of this service. Three significant figures (or 2 for <10PQL) are reported for statistical purposes only. Where "Total" concentrations are reported for organic suites of compounds this is the summation of the individual compounds and the PQL is noted for reporting purposes only. This report has been auto-authorized by NATA signatories for PDF format. Refer to the method descriptions for further information.

PLEASE SEE ATTACHED PAGES FOR RESULTS

CTPI 49-Sch4 - Signature

R. Mooney B.Sc.(Hons)Dip. FDA
Technical Services Manager Sydney



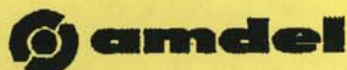
Report No. : 2E0226A

Please note: Where samples are collected/submitted over several days, the date on which the last samples were analysed or extracted is reported.

Unless Ferrous Iron is determined on site, the possibility of a ferrous-ferric ratio change may occur.

<u>Method</u>	<u>Description</u>	<u>Extracted</u>	<u>Analysed</u>	<u>Authorised</u>
E7500	Moisture (%w/w)	07/02/02	07/02/02	KSA 096
E1110	Polycyclic Aromatic Hydrocarbons	06/02/02	06/02/02	MNG 095
E6000	Toxicity Characteristic Leachate Proc.	05/02/02	06/02/02	KSA 096
E6110	PAH'S in Leachate	06/02/02	07/02/02	MNG 095
E6910	Metals in Leachate by ICP-AES	07/02/02	07/02/02	SMA 093

RTI DL RELEASE - EHP



Job Number : 2E0226A

Client : OTEK Australia

Reference : B2010/20304

Project : CALTEX BUNDABERG

Page 1 of 3
plus Cover Page

Analyte	Lab No	E46574				
	Sample Id	S-3				
	PQL					
Moisture Content	1	8%				
E1110 Priority PAH's in Soil						
Naphthalene	0.5	nd				
Acenaphthylene	0.5	nd				
Acenaphthene	0.5	nd				
Fluorene	0.5	nd				
Phenanthrene	0.5	nd				
Anthracene	0.5	nd				
Fluoranthene	0.5	nd				
Pyrene	0.5	nd				
Benz(a)anthracene	0.5	nd				
Chrysene	0.5	nd				
Benzo(b) & (k)fluoranthene	1	nd				
Benzo(a)pyrene	0.5	nd				
Indeno(1,2,3-cd)pyrene	0.5	nd				
Dibenz(a,h)anthracene	0.5	nd				
Benzo(g,h,i)perylene	0.5	nd				
Total USEPA Priority PAHs	0.5	nd				
2-Fluorobiphenyl-SURROGATE	1	106%				
Anthracene-d10-SURROGATE	1	94%				
p-Terphenyl-D14-SURROGATE	1	112%				

PQL = Practical Quantitation Limit

LNR = Samples Listed not Received

nd = <PQL

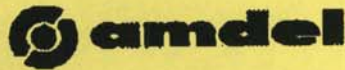
-- = Not Applicable

Refer to Amdel standard laboratory qualifier codes for comments.

Soils : mg/kg (ppm) dry weight unless otherwise specified

Waters : mg/L (ppm) unless otherwise specified in Method Header

Leachates : mg/L (ppm) in leachate unless otherwise specified in
Method Header



Job Number : 2E0226A

Client : OTEK Australia

Reference : B2010/20304

Project : CALTEX BUNDABERG

Page 2 of 3
plus Cover Page

Analyte	Lab No	E46574				
	Sample Id	S-3				
	PQL					
E6110 PAH's in Leachate (ug/L)						
Naphthalene	1	nd				
Acenaphthylene	1	nd				
Acenaphthene	1	nd				
Fluorene	1	nd				
Phenanthrene	1	nd				
Anthracene	1	nd				
Fluoranthene	1	nd				
Pyrene	1	nd				
Benzo(a)anthracene	1	nd				
Chrysene	1	nd				
Benzo(b) & (k)fluoranthene	2	nd				
Benzo(a)pyrene	1	nd				
Indeno(1,2,3-cd)pyrene	1	nd				
Dibenz(a,h)anthracene	1	nd				
Benzo(g,h,i)perylene	1	nd				
Total PAH	1	nd				
2-Fluorobiphenyl-SURROGATE	1	89%				
Anthracene-d10-SURROGATE	1	102%				
p-terphenyl-d14-SURROGATE	1	122%				

PQL = Practical Quantitation Limit

LNR = Samples Listed not Received

nd = <PQL

-- = Not Applicable

Refer to Amdel standard laboratory qualifier codes for comments.

Soils : mg/kg (ppm) dry weight unless otherwise specified

Waters : mg/L (ppm) unless otherwise specified in Method Header

Leachates : mg/L (ppm) in leachate unless otherwise specified in
Method Header



Job Number : 2E0226A

Client : OTEK Australia

Reference : B2010/20304

Project : CALTEX BUNDABERG

Page 3 of 3
plus Cover Page

[illegible]

PQL = Practical Quantitation Limit

LNR = Samples Listed not Received

$$nd = \angle PQL$$

-- = Not Applicable

Refer to Amdel standard laboratory qualifier codes for comments.

Soils : mg/kg (ppm) dry weight unless otherwise specified

Waters : mg/L (ppm) unless otherwise specified in Method Header

Leachates : mg/L (ppm) in leachate unless otherwise specified in
Method Header

AMDEL LTD

INDUSTRIAL AND ENVIRONMENTAL SERVICES DIVISION

Amdel Limited

ABN 38 0081 27 802

5 Kairay Place

Correspondence to:

ASQUITH NSW 2077

PO BOX 514

Telephone: (02) 9482 1922

HORNSBY NSW 1630

Facsimile: (02) 9482 1734

SAMPLE RECEIPT ACKNOWLEDGMENT

TO: OTEK Australia

ATTN:

CTPI 49-Sch4 - Personal Information

FAX NO: 07 3717 5155

FROM:

DATE: 29/01/02

PAGES: 1 of 2

We have received the samples referenced below and they are now being processed in our laboratory. If you have any queries or wish to make any adjustments please do not hesitate to contact David Springer.

Reference/Order:

B2010/20304

Project:

CALTEX BUNDABERG

Our Reference Number :

2E0226

Date Received by Amdel :

29/01/02

ANALYSIS REQUESTED

AMDEL METHOD
CODENUMBER OF
SAMPLESESTIMATED
REPORT DATE (COT):

TPH C6-C9 by Purge & Trap

E1230

3

TPH (C10-C36)

E1221

3

Benzene, Toluene, Ethylbenzene & Xylene

E1010

3

Metals by ICP-AES

E5910

3

Mercury in Soil

E5950

3

Samples on Hold (Soil)

E7600

1

Australian GST

GST

~~31/01/02~~
1/2/02

Sample integrity upon receipt

Samples were received chilled and in good condition

Samples received appropriately preserved for all tests

VOC/SVOC samples were received in teflon lined containers

Volatiles samples received with Zero Headspace

Samples received within recommended holding times

Yes / No / N/A

Yes / No / N/A

Yes / No / N/A

Yes / No / N/A

Yes / No / N/A

* Surcharges for urgent turn-around requests apply to complete or partial results reported within the specified times. Surcharges are calculated and invoiced on discounted price.

THE CONTACT FOR THIS JOB WILL BE

CTPI 49-Sch4 - Personal Information

OT&K
AUSTRALIA PTY LTD

OT&K Australia Pty Ltd
29 Enterprise Street (PO Box 107)
RICHMOND QLD 4077
Tel (07) 3717 5100 Fax (07) 3717 5155

CHAIN OF CUSTODY & ANALYSIS REQUEST

PROJECT # 62010	PROJECT NAME Colfax Synaburg - Depot	PROJECT MANAGER	COLLECTOR	ANALYSIS REQUIRED				PRESERVATION METHOD		REMARKS					
LAB AMOEL	PRELIMINARY RESULTS BY: (P&A) 31-1-02	MATRIX	SOIL	WATER	PRODUCT	BTEX	TPH	LEAD	Pb, Zn, Cu, Fe		OC/OP	PAH	HOLD	ACIDIFIED	OTHER
ADDRESS 5 Kelroy Pl. Asgwith NSW 2147	FINAL RESULTS BY: 4-1-02	SAMPLE DATE		CONTAINERS											
SAMPLE #	LABORATORY NUMBER	24-1-02		1											
S-1 ✓	76	24-1-02		1											
S-2 ✓	616573	24-1-02		1											
S-3 ✓	74	24-1-02		1											
S-4 ✓	75	24-1-02		1											
AS															

RECEIVED
29 JAN 2002
2E0226

Date: 25/1/02
Time: 14:38

Date: 24-1-02
Time: 9:45a

Date: 25-1-02
Time:

Date: 25/1/02
Time: 14:38

Date: 24-1-02
Time: 9:45a

FOR

 Chain of Custody
 This form must be completed by the person who receives the sample and the person who analyzes the sample.

ATTACHMENT C
CURRENT CERTIFICATE OF TITLE FOR THE CURRENT LOCATION OF SOIL

RTI DL RELEASE EHP

B2010
V1: 03/03/00
TEMP 011



CURRENT TITLE SEARCH
NATURAL RESOURCES & MINES, QUEENSLAND

Request No: 896792
Search Date: 12/02/2002 3:39 pm

Title Reference: 12541142
Date Created: 15/02/1951

Previous Title: 12219134

REGISTERED OWNER

AMPOL PETROLEUM (Q'LAND) PTY LIMITED

ESTATE AND LAND

Estate in Fee Simple

LOT 64 REGISTERED PLAN 65117
County of COOK Parish of KALKIE
Local Government: BUNDABERG

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 10310192 (POR 3)

ADMINISTRATIVE ADVICES - NIL
UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - Yes

Certificate No. 1

**** End of Current Title Search ****

COPYRIGHT THE STATE OF QUEENSLAND (NATURAL RESOURCES & MINES) [2002]
Requested By: External Supervisor

30 July 2002

Ms Kim Barry
Contaminated Land Unit
Environmental Protection Agency
GPO Box 2771
BRISBANE QLD 4001

**DISPOSAL RECEIPTS FOR DISPOSAL OF CONTAMINATED SOIL
CALTEX DEPOT
2 COLLINS STREET
BUNDABERG, QUEENSLAND**

Dear Kim,

In accordance with the conditions of the Permit to Remove and Dispose of Contaminated Soil issued 21 January 2002 and subsequently renewed on 7 May 2002 (EPA Reference 900551), please find enclosed a copy of the disposal receipts record for soil transported to the Bundaberg City Council Landfill facility on 29 July 2002. The soil was removed from the Caltex Depot located at 2 Collins Street, Bundaberg, being Lot 64 on RP65117 as described in previous correspondence. It is estimated that each truck load had a capacity of approximately 18m³ for a total of approximately 72 m³.

Thank you for your time and attention on this matter. If you have any questions, Please contact this office on (07) 3717 5100.

Yours sincerely

CTPI 49-Sch4 - Signature

Project Manager

CTPI 49-Sch4 - Signature

Operations Manager



FACSIMILE

Environmental Professionals

Attention: Daryl Byers

Company: EPA

Fax No.: 3247 3278

From: CTPI 49-Sch4 - Personal Information

Date: 21-2-02.

Pages: 3

(Incl. This One)

FAX Ref: 32010

A 'Notification of Land' form follows as discussed on the phone.
A locality plan is included. Please note the adjacent site
on Lot 56 is already on the EMR.

Please call on 3717 5100 if you have any further requirements

Regards,

CTPI 49-Sch4 - Personal Information

CONTAMINATED
LAND SECTION
21 FEB 2002

OTEK Australia Pty Ltd
ACN 054 371 596
ABN 32 054 371 596

29 Enterprise Street (PO Box 107)
RICHMOND QLD 4077

Tel: (07) 3717 5100
Fax: (07) 3717 5155

Sydney
Melbourne
Brisbane
Perth

This facsimile is intended solely for the named addressee and may contain information that is confidential and privileged. If you are not the intended recipient and have received this communication in error, please notify the relevant above office immediately and destroy this document.

V4: 18/11/00

Site ID: 37404 entered as 'N'

RT

27/02/02



QUEENSLAND GOVERNMENT

Department of Environment

Hazardous Waste and Contaminated Sites Section
Department of Environment

PO Box 155

BRISBANE ALBERT STREET

QLD 4002

Ph: (07) 3225 1827 Fax: (07) 3227 8341

Notification of Land

Sections 118E and 118F Environmental Protection Act (1994)

The following information should be supplied by people providing notification to the Department of Environment of contaminated land or land used for a notifiable activity under Schedule 3 of the Environmental Protection Act 1994.

Essential Information

- Please complete all information - Please complete one form per lot Date: 21-2-02
- Please refer to the reverse side for information on how to complete this form

1. Local government
BUNDABERG CITY COUNCIL

2. Information provided by

Name DAVID MACHIN

Telephone 07 38777 436

Organisation CALTEX AUSTRALIA

Address PO BOX 794

LYTTON Postcode 4478

3. Name by which the property is

known locally

CALTEX DEPOT

4. Lot on Plan description of parcel of land

Lot 64 Plan RP65112

Parish KALKIE

5. Location

Street Address 2 COLONS ST

Town/suburb BUNDABERG

Postcode 4670

6. Name and postal address of land owner

CALTEX AUSTRALIA PETROLEUM P/L

(Formerly AMPOL PETROLEUM P/L)

Street Address TANKER ST

Town/suburb LYTTON

Postcode 4478

7. Area of parcel in square metres

(this information is used as a cross-check on the

land description details)

2613m²

8. Notification information (please refer to the reverse side of this form and Schedule 3 of the Environmental Protection Act 1994)

Description of the notifiable activity/ies for which the land is or has been and the source/s of the suspected contamination (please list all notifiable activities that the land has been used for and provide details).

OIL AND PETROLEUM PRODUCT STORAGE AT

SERVICE STATION AND DEPOT.

UNDERGROUND STORAGE OF 287,000 L.

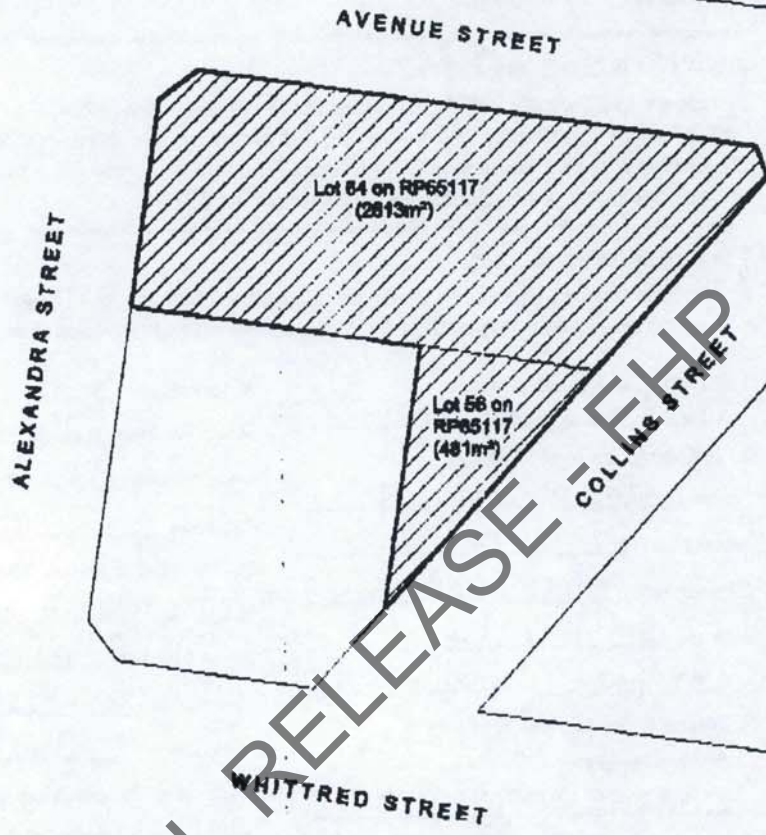
9. Map or locality plan (The processing of this information would be greatly assisted by the inclusion of a map or locality plan)

Signature of person providing notification information

CTPI 49-Sch4 - Signature

CONTAMINATED
LAND SECTION

21 FEB 2002



OTEK <small>ASBESTOS REMEDIATION</small>		REPORT REFERENCE SOIL DISPOSAL	
APPROXIMATE SCALE 1:1500		Client: Australia Pty Ltd Bundaberg, QLD	
DRAWN GSD	DATE 12/02/02	CHIEF DATE	JOB # B2010
VICINITY MAP			PAGE # 1

**CONTAMINATED
LAND SECTION**
21 FEB 02

Site ID 37404 entered as 'N'

RT

27/02/02



QUEENSLAND GOVERNMENT

Department of Environment

Hazardous Waste and Contaminated Sites Section
Department of Environment

PO Box 155

BRISBANE ALBERT STREET

QLD 4002

Ph: (07) 3225 1827 Fax (07) 3227 8341

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Essential Information

- Please complete all information - Please complete one form per lot Date: 21-2-02
- Please refer to the reverse side for information on how to complete this form

1. Local governmentBUNDABERG CITY COUNCIL**5. Location**Street Address 2 COLONS ST**2. Information provided by**Name DAVID MACHINTown/suburb BUNDABERGTelephone 07 38777 436Postcode 4670**3. Name by which the property is known locally**Organisation CALTEX AUSTRALIA**6. Name and postal address of land owner**CALTEX AUSTRALIA PETROLEUM P/L

(Formerly Ampol Petroleum P/L)

Street Address TANKER STAddress PO BOX 794LYTTON Postcode 4178Town/suburb LYTTONPostcode 4178**4. Lot on Plan description of parcel of land**Lot 64 Plan RP65112**7. Area of parcel in square metres**

(this information is used as a cross-check on the land description details)

Parish KALKIE2613 m²**8. Notification Information (please refer to the reverse side of this form and Schedule 3 of the Environmental Protection Act 1994)**

Description of the notifiable activity/ies for which the land is or has been and the source/s of the suspected contamination (please list all notifiable activities that the land has been used for and provide details).

OIL AND PETROLEUM PRODUCT STORAGE ATSERVICE STATION AND DEPOTUNDERGROUND STORAGE OF 287,000 L.**9. Map or locality plan (The processing of this information would be greatly assisted by the inclusion of a map or locality plan)**

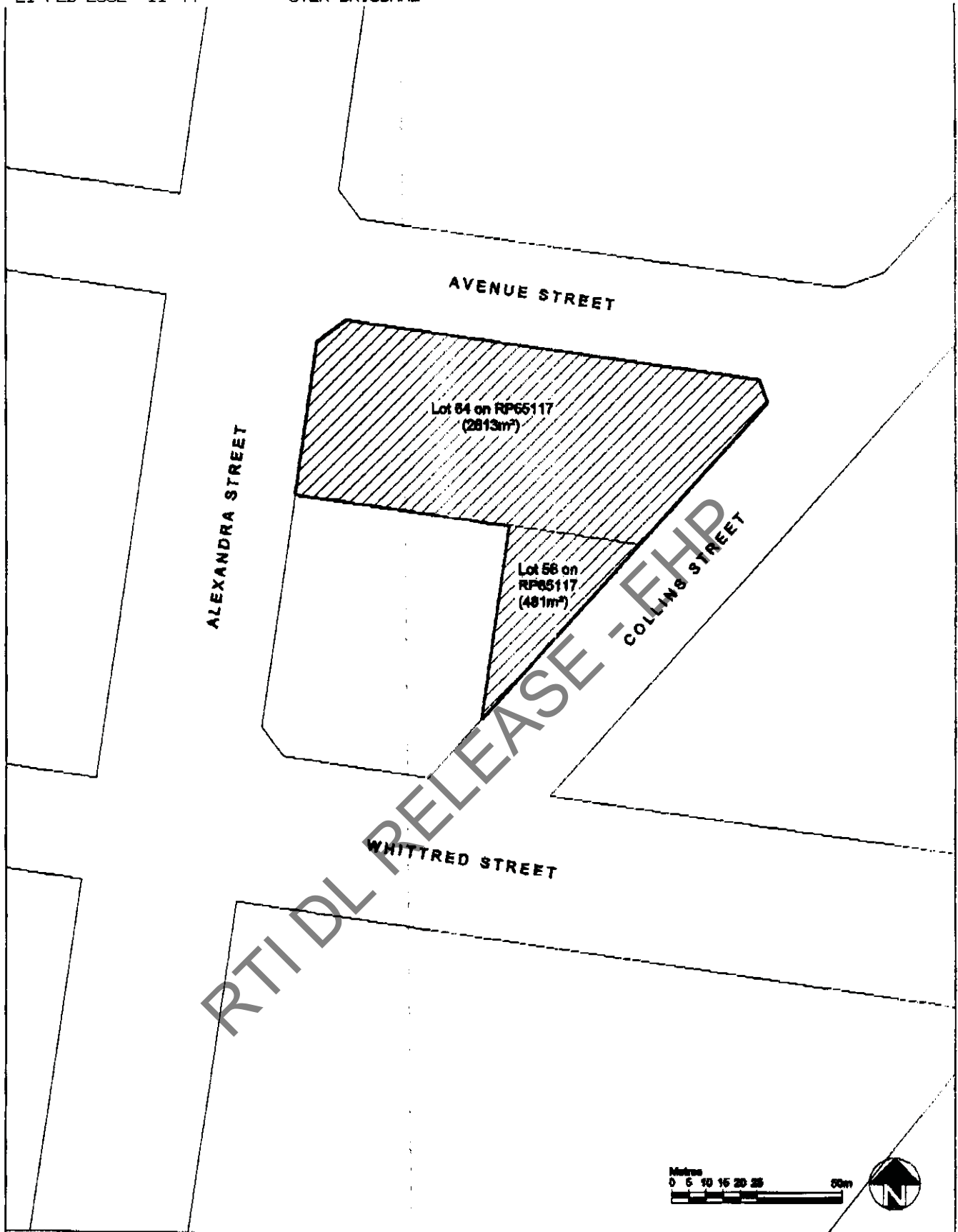
Signature of person providing notification information

CTPI 49-Sch4 - Signature

**CONTAMINATED
LAND SECTION**

21 FEB 2002

CTPI 49-Sch4 - Signature



OTEK <small>ASBESTOS REMEDIATION</small> APPROXIMATE SCALE 1:1500		REPORT REFERENCE SOIL DISPOSAL	
		Caller Australia Pty Ltd Bundaberg, QLD	
DRAWN GSD	DATE 12/02/02	CHECKED DATE	JOB # B2010
VICINITY MAP			Pg. # 1

CONTAMINATED
 LAND SECTION
 21 FEB 2002

TOTAL P.03

FACSIMILE**Environmental Professionals****Attention:** Daryl Byers**Company:** EPA**Fax No.:** 3247 3278**From:** CTPI 49-Sch4 - Personal Information**Date:** 21-2-02**Pages:** 3 (Incl. This One) **FAX Ref:** 32010

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Regards,

CTPI 49-Sch4 - Personal Information

**CONTAMINATED
LAND SECTION**
21 FEB 2002

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V4: 15/11/00