

EMR

Lot:	2	Plan:	RP106025
Category:	REMOVED		
LGA:	Toowoomba Regional Council		
Site Name:	SERVICE STATION -CALTEX SERVICE STATION		
Street:	413-415 BRIDGE ST		
Suburb:	TOOWOOMBA	Post Code:	4350
Owner:	CALTEX AUSTRALIA PETROLEUM PTY LTD		
Address:	MLC CENTRE, 19-29 MARTIN PLACE		
	SYDNEY		
	NSW		
Post Code:	2000		

Rec Type:	BP	ID:	6602
Region:		Hist. ID:	149-4048
AMA/AN:			
Notified By:	DATA CONV	Notif. Rec'd:	
Entry Date:	27/06/1998	Last Altered Date:	29/06/1999
File:	902227		
Officer:	HOPPER		
Parcel Status:	D	Area:	1755 m2

External References

Hazardous Contaminants

Notifiable Activities

SERVICE STATIONS

Comments

Create Date	User ID	Corr No	Officer Name	Date Final	How Finalized
10/08/1998	MILINOA				
SITE DECOMMISSIONING REPORT 15/7/98 PREPARED BY OTEK FOR CALTEX AUSTRALIA PETROLEUM P/L REF. B98080. LOT 3 RP106025 ALSO REFERS. TCC NOTIFICATION ALSO REFERS TO USE OF LAND AS A QUARRY AND LANDFILL. ADDED LANDFILL TO NOTIFIABLE ACTIVITIES AND REGENERATED NOTIFICATION LETTERS.					
24/09/1998	BIGNELT				
RECATAGORISED SITE TO REMOVED.					
28/09/1998	BIGNELT				
AMENDED N/A FROM LANDFILL & SERVICE STATION TO SERVICE STATION ONLY.					
01/10/1998	BIGNELT				
AMENDED OWNER'S NAME AND ADDRESS AS PER ADVICE FROM IRMA GERRIDZEN, SENIOR ENVIRONMENTAL OFFICER AND RE-GENERATED LETTER. (PART 1 OF 2 PARCELS. LOT 3 ON RP106025 ALSO REFERS.)RT					

s.73 irrelevant information

EMR

Lot:	3	Plan:	RP106025
Category:	REMOVED		
LGA:	Toowoomba Regional Council		
Site Name:	FUEL STORAGE TOOWOOMBA		
Street:	413-415 BRIDGE STREET		
Suburb:	TOOWOOMBA	Post Code:	4350
Owner:	CALTEX AUSTRALIA PETROLEUM PTY LTD		
Address:	MLC CENTRE, 19-29 MARTIN PLACE		
	SYDNEY		
	NSW 2000		
Post Code:	4001		

Rec Type:	BP	ID:	6875
Region:		Hist. ID:	149-45472
AMA/AN:			
Notified By:	DATA CONV	Notif. Rec'd:	
Entry Date:	27/06/1998	Last Altered Date:	01/10/1998
File:	902227		
Officer:	HOPPER		
Parcel Status:	D	Area:	1755 m2

External References

Hazardous Contaminants

Notifiable Activities

SERVICE STATIONS

Comments

Create Date	User ID	Corr No	Officer Name	Date Final	How Finalized
11/08/1998	MILINOA				
LOT 2 AND 3 RP106025 NOTIFIED UNDER CLA1991 BY CALTEX AND TCC. COUNCIL NOTIFICATION STATES "A LANDFILL SITE ESTABLISHED BETWEEN 1963 AND 1978 EXISTING IN 1992 AS A SERVICE STATION - PREVIOUS USE WAS A QUARRY.(THE LANDFILL IS RUBBISH MATERIAL). MAKIG UP PART OF THE TOTAL LANDFILL BEING 2250M2. SITE DECOMMISSIONING REPORT 15/7/98 PREPARED BY OTEK FOR CALTEX AUSTRALIA PETROLEUM P/L REF.B98080. ADDED LANDFILL TO NOTIFIABLE ACTIVITIES AND REGENERATED NOTIFICATION LETTERS.					
24/09/1998	BIGNELT				
RECATAGORISED TO REMOVED.					
28/09/1998	BIGNELT				
AMENDED N/A FROM LANDFILL & PETROLEUM PRODUCT OR OIL STORAGE TO SERVICE STATION.					
01/10/1998	BIGNELT				
UPDATED OWNER'S NAME AND ADDRESS FROM CALTEX OIL (AUST) PTY LTD, GPO BOX 820, BRISBANE QLD 4001, TO CALTEX AUSTRALIA PETROLEUM PTY LTD, MLC CENTRE, 19-29 MARTIN PLACE, SYDNEY, NSW 2000 AS ADVISED BY IRMA GERRIDZEN, SENIOR ENVIRONMENTAL OFFICER.-RT					
01/10/1998	BIGNELT				
(PART 2 OF 2 PARCELS. LOT 2 ON RP106025 ALSO REFERS.) RE-GENERATED NOTICE TO OWNER.RT					

s.73 irrelevant information

Lot:	2	Plan:	RP154197
Category:	NOTIFIABLE ACTIVITY		
LGA:	Toowoomba Regional Council		
Site Name:	FORMER LANDFILL TOOWOOMBA		
Street:	407 - 411 BRIDGE ST		
Suburb:	TOOWOOMBA	Post Code:	4350
Owner:	WILSONTON HOLDINGS PTY LTD		
Address:	PO BOX 3255		
	VILLAGE FAIR		
	TOOWOOMBA		
	QLD		
Post Code:	4350		

Rec Type:	BP	ID:	6682
Region:		Hist. ID:	149-8078
AMA/AN:			
Notified By:	DATA CONV	Notif. Rec'd:	
Entry Date:	27/06/1998	Last Altered Date:	07/07/2011
File:	BNE32039		
Officer:	NIL		
Parcel Status:	D	Area:	9830 m2

External References

Hazardous Contaminants

Notifiable Activities

LANDFILL

Comments

Create Date	User ID	Corr No	Officer Name	Date Final	How Finalized
s.73 irrelevant information					

ADDED FILE NUMBER

RTI DL Release - EHP

HISTORICAL SITE REPORT - CONTAMINATED
SITES REGISTER

EMM7110

V1.0

Page 1 of 1

Date Printed: 21/06/2007

Lot No	2	Plan No	RP154197	Category	PRO	CSR Cont	149-8078
LGA	TOOWOOMBA CITY	Entry Date	10-DEC-93	Site ID		Mr Alter Date	05/07/1996
Site Name	FORMER LANDFILL TOOWOOMBA			Prescribed purpose	SANITARY LANDFILL SITES		
Street	407 BRIDGE ST			Contsite File	0	Officer	NIL
Suburb	TOOWOOMBA	Post code	4350	Current Use	42	Past Use	431
Owner	WILSONTON HOLDINGS PTY LTD			Pcl Status	C	Contaminant	UNK
Address	PO BOX 3255			Prev Lot	2	Prev Plan	RP154197
	VILLAGE FAIR			Zoning	COM	Area	9830
	TOOWOOMBA						
	QLD	Post code	4350	UXO Region		Cont Grd Water	U
Comments	NOTIFICATION BY COUNCIL-10.3.93-MDWSITE WAS PREVIOUS COUNCIL LANDFILL, HAS BEEN USED FOR PAST 15 YEARS AS CAR PARK FOR SHOPPING CENTRE. CAR PARK HAS BEEN COVERED WITH CONCRETE OVER THAT PERIOD AND IS NOT CONSIDERED TO PRESENT A HAZARD TO HUMAN HEALTH OR THE ENVIRONMENT.//REGENERATED NOTIFICATION LETTER TO COUNCIL - COUNCIL FAX 25/06/1996.-05/07/1996-DOH.//						

Rec Status ☐ Deleted ReasonDeleted
Date



QUEENSLAND GOVERNMENT
**Department of
Environment and Heritage**

SUITABILITY STATEMENT

DATE PRINTED: 01/10/1998

OWNER

CALTEX AUSTRALIA PETROLEUM PTY LTD
MLC CENTRE, 19-29 MARTIN PLACE
SYDNEY
NSW 2000

DATE OF ISSUE : 24/09/1998

PROPERTY DESCRIPTION

LOT : 2 PLAN : RP106025
413-415 BRIDGE ST
TOOWOOMBA 4350

TOOWOOMBA CITY COUNCIL
EMR Site ID: 6602 FILE REFERENCE: 902227

FINAL SUBMISSION RECEIVED ON: 21/09/1998

**STUDIES UNDERTAKEN BY APPLICANT OR REQUESTED BY
DIRECTOR**

Site Decommissioning, Caltex Service Station, Wilsonton, Queensland, prepared by
OTEK Australia Pty Ltd on 15 July 1998 (Ref. No.:B98080).

Additional information provided by Toowoomba City Council in correspondence
dated 8/9/98.

Additional information provided by OTEK Australia Pty Ltd in correspondence dated
17 September 1998 (Ref. No.:B97C153).

STATEMENT OF SUITABILITY

On the basis of the information supplied to this Department, the subject site is suitable
for any use.

ENVIRONMENTAL MANAGEMENT REGISTER

LOT : 2 PLAN : RP106025

There is no requirement to record this site on the Environmental Management Register or the Contaminated Land Register.

sch4p4(6) Personal information

Dr Dagogo Ibiebele

Manager, Hazardous Waste and Contaminated Sites Section

RTI DL Release - EHP



QUEENSLAND GOVERNMENT
**Department of
Environment and Heritage**

SUITABILITY STATEMENT

DATE PRINTED: 01/10/1998

APPLICANT

Ms Julia Wharton
OTEK Australia Pty Ltd
26/500 Seventeen Mile Rocks Road
SEVENTEEN MILE ROCKS 4073

DATE OF ISSUE : 24/09/1998

PROPERTY DESCRIPTION

LOT : 3 PLAN : RP106025
413-415 BRIDGE STREET
TOOWOOMBA 4350

TOOWOOMBA CITY COUNCIL
EMR Site ID: 6875 FILE REFERENCE: 902227

FINAL SUBMISSION RECEIVED ON: 21/09/1998

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DIRECTOR**

Site Decommissioning, Caltex Service Station, Wilsonton, Queensland, prepared by
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Dr Dagogo Ibiebele

Manager, Hazardous Waste and Contaminated Sites Section

RTI DL Release - EHP



QUEENSLAND GOVERNMENT

**Department of
Environment and Heritage**

SUITABILITY STATEMENT

DATE PRINTED: 01/10/1998

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CALTEX AUSTRALIA PETROLEUM PTY LTD
MLC CENTRE - 19-29 MARTIN PLACE
SYDNEY
NSW 2000

DATE OF ISSUE : 24/09/1998

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LOT : 3 PLAN : RP106025
413-415 BRIDGE STREET
TOOWOOMBA 4350

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sch4p4(6) Personal information

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Manager, Hazardous Waste and Contaminated Sites Section

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**Department of
Environment and Heritage**

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DATE PRINTED: 01/10/1998

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OTEK Australia Pty Ltd
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SEVENTEEN MILE ROCKS 4073

DATE OF ISSUE : 24/09/1998

PROPERTY DESCRIPTION

LOT : 2 PLAN : RP106025
413-415 BRIDGE ST
TOOWOOMBA 4350

TOOWOOMBA CITY COUNCIL
EMR Site ID: 6602 FILE REFERENCE: 902227

FINAL SUBMISSION RECEIVED ON: 21/09/1998

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Site Decommissioning, Caltex Service Station, Wilsonton, Queensland, prepared by
OTEK Australia Pty Ltd on 15 July 1998 (Ref. No.:B98080).

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sch4p4(6) Personal information

Dr Dagogo Ibiebele

Manager, Hazardous Waste and Contaminated Sites Section

RTI DL Release - EHP

Memorandum

To File
From Irma Gerridzen
Subject Peer Review Caltex, Toowoomba

File reference 902227

Date 23/9/90

Notes ① of 2

* Site Decommissioning, OTEK

- Former Servo: 5 UST's, 4 bowlers, TIT, 2 kerosene AST's, waste oil AST, Workshop.
- Site relatively flat
- FRC license: 22/8/95 → consistent with most recent features except abandoned UST (#2) not listed.
- + 2x450 l kerosene AST on license but not on site.
- Servo built ± 1970
- Aerials:
 - 1969: 2 residences
 - 1975: Servo, as current layout
 - 1984, 1988, 1993: as today
- Original plans included original business manager → no inground hoist
- removed: TIT, waste oil AST, all UST's
- bowlers were removed previously
- 519 m³ soil removed, of which 480 m³ appeared TPH impacted
- excavated 19, 20, 21 May '90
- imported fill (clean) sourcing from Toowoomba Quarry
- Site Inspection:
 - entire site concrete, good condition
 - bowlers removed & concreted over
 - AST's kerosene would have been on concrete → not major source.
 - waste oil AST, on concrete, stained
 - Hoist (above ground) had been removed from service bay
 - UST's 1, 3, 4 → good condition
 - UST #2 → poor, holes, sand filled
 - UST's → fibre glass, leak detection, good condition

backfill which date?
Vol. samples stockpiles
collected 4/6/90
→ ± 2 weeks

✓
which direction drainage?
photograph indicates
staining in one spot
not moving 'away'
from source.

Memorandum

To

File reference

From

Subject

Date

Notes

(2)

- Silty clay 0-3.5m
- No H₂O encountered

Photographs:

minor concern: waste oil on concrete slab,
stained, it appears that the slab does not
consist of one piece → likelihood of
contam. under slab?

Comments CSR: 'landfill'?

Landfill between '63-'78 → rubbish. Previous Quarry
However OTEU did not encounter any
fill or rubbish?

* Tooabomba C.C. correspondence 8/9/90
6 applicant pointed out quarry was on other lot.

10. OTEU report establishes quarry & subsequent
rubbish fill on new lot 2 RP 154 197
and not on current lots

13. fill → now car park → L.C. did report
on subsidence.

SMP L.C. attached. Oct '95

- fill uncontrolled, ± 2 months → 1971

Stage 1 L.C. ± '94

No analytical results attached. Levels
described don't appear to be alarming but
not suff. info provided.

lot 2 RP 154 197
should be on EMR
now car park
within shopping centre
✓ KH's notes
→ is on EMR.

* Letter OTEU 17/9/90
address all issues.

I recommend to remove both lots from
the EMR.

Section 78B(2) RTI Act

23/9/90

Memorandum

To File

File reference 902227

From K Hopper

Date 23/9/98

Subject 413 Bridge St, Toowoomba.

Notes ①

Q1. L/F & quarry not on these blocks but in NE Cor Walcotts Shopping Centre

→ are there sites on reg?

Info from TCC.

Previously Lots 7 & 8 & resub into

L2, 3 & 4 RP 106025

L2 & 3 were became house blocks

& dwelling built on each block

- sold in 1966 & 1968 to Callex

& S/S constructed.

* quarry situated on now

L2 RP 154187

→ * site on register ✓

used as quarry, filled with rubbish & covered with concrete as are for car park.

→ W/W/C - gully containing the L/F material is now situated under the carpark anoc. to the shopping centre.

* need to check if L/F further than just L2

→

From info supplied by TCC, I am satisfied quarry & anoc landfill are not on the lots in question.

Q2 ✓

Q3 ✓

Q4 ✓

Memorandum

To

File reference

From

Subject

Date

Notes

Summary

Calltex s/s on site - built around 1975.

The site had 5x UST (direct fill)

4x bowzers

1 x TIT

2 x kero AST

1 x w/o AST.

All sources of contain have been removed. Validating sampling occurred of all excavations & levels OK.

Excavated materials were backfilled & validated OK.

The validated soil has been backfilled into excavations.

∴ Consider site suitable for removal from EMR.

sch4p4(6) Personal information

23/9/98

17 September 1998

Karen Hopper
Senior Environmental Officer
Contaminated Sites Section
Queensland Department of Environment and Heritage
PO Box 155
BRISBANE QLD 4002



C/SITES
OTEK
AUSTRALIA PTY LTD



**ADDITIONAL INFORMATION
SITE DECOMMISSIONING
FORMER CALTEX SERVICE STATION
413 BRIDGE STREET, TOOWOOMBA, QUEENSLAND
LOTS 2 & 3 ON RP 106025**

98 / 10556

Dear Ms Hopper,

This letter serves as a response to your request for additional information regarding the validation of the above referenced site (re: Site Decommissioning Report dated 15th July 1998). The following paragraphs address your questions.

1. From the historical title information, historical aerial photograph review, information provided by Caltex Petroleum Australia (Caltex) and field work by an OTEK field scientist, it was determined that the two lots comprising the Caltex site had not been used as a landfill or quarry during the period between 1963 to 1978. OTEK contacted the Toowoomba City Council (TCC) regarding this matter. The TCC requested the information OTEK had gathered as well as the testimony of Mr Clive Berghofer (the owner of an adjoining block) to have the notification rescinded. Mr Berghofer owns the Wilsonton Shopping Centre located north of the site. He was able to recall the actual location of the landfill and quarry in question and provide a report by Woodward-Clyde which documented the landfill and quarry location as being in the north-east corner of the Wilsonton Shopping Centre.
2. Please find the "Certificate of Tank Destruction" attached. All five tanks were disposed of at 388 Kingsford Smith Drive, Meeandah, QLD, as stated on the certificate. This is John F. Taylor and Sons disposal unit.
3. Please find attached the reissued sample receipt acknowledgments for the samples taken at Wilsonton. Amdel Laboratories changed their receipt acknowledgments format recently and the new format omitted a statement on the condition of the samples when received. This has been remedied by Amdel for future analysis.

4. The sampling depths for all samples are as follows and will in future be included in our analytical summary tables:

Sample ID	Depth of Sample (m)	Sample ID	Depth of Sample (m)
S-1	3.5m	S-16	2.0m
S-2	3.5m	S-17	2.5m
S-3	3.0m	S-18	2.5m
S-4	2.5m	S-19	2.5m
S-5	2.5m	S-20	2.5m
S-6	3.0m	S-21	2.0m
S-7	3.0m	S-22	1.8m
S-8	3.0m	S-23	1.8m
S-9	3.0m	S-24	1.5m
S-10	2.5m	S-25	1.8m
S-11	2.5m	S-26	0.7m
S-12	3.0m	S-27	0.7m
S-13	3.0m	S-28	0.8m
S-14	3.0m	S-29	0.8m
S-15	3.0m		

The depths of excavations on site are as included in the Legend of the Site Map (Figure 3) which is included in the report. However, the excavation depth around the bowers is not correct as reported in this figure. An amended Site Map is attached with the correct depth of the bowser excavations at 0.7m.

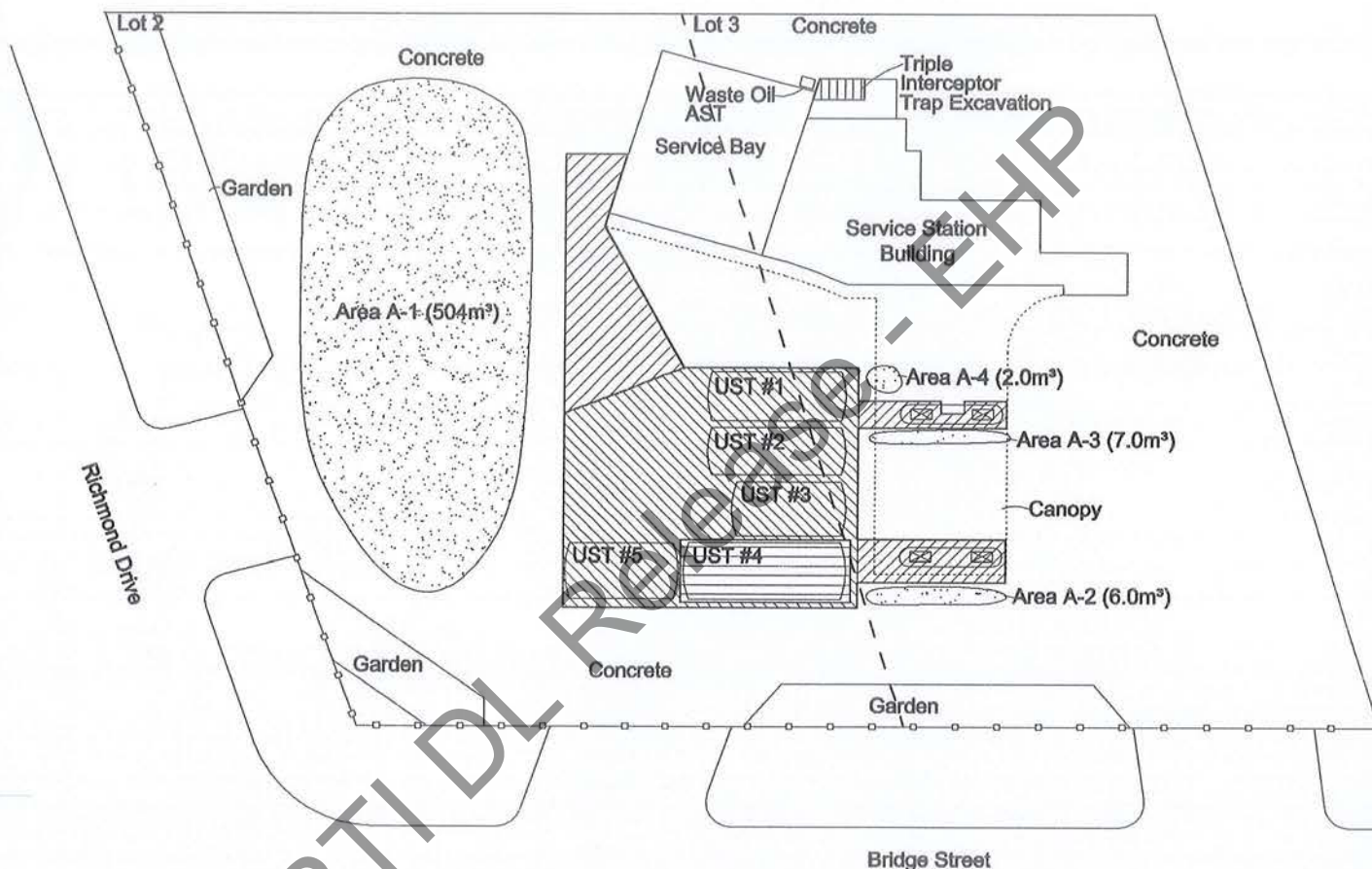
Based on the submitted report and this additional information, OTEK recommends that the site be released from the DEH Environmental Management Register. If you have any additional questions regarding this project, please contact this office.

Sincerely,

Stephanie L. Williams (BSc AES)
Environmental Scientist

sch4p4(6) Personal information

Mark J Paton MEnvSc, BSc (Hons), DipEd
Principal Environmental Scientist



Legend

- Bowser Location
- Excavation 0.7m depth
- Excavation 2.0m depth
- Excavation 3.0m depth
- Excavation 3.5m depth
- Fence
- Stockpiled Soil

UST Details

UST #	Capacity	Contents
1	22,000L	Unleaded
2	22,000L	Abandoned
3	15,000L	Leaded
4	45,000L	Distillate
5	15,000L	Distillate

OTek
AUSTRALIA PTY LTD

APPROXIMATE SCALE

1:300

DRAWN

DATE

GSD 19/06/06

REPORT REFERENCE

SITE DECOMMISSIONING

Australian Petroleum Pty Ltd
Wilsons, QLD

CHECKED

DATE

Personal information

JOB #

B98080

TITLE

SITE MAP

Page 20

FIG. #

3

A.C.N. 071 332 119

BRISBANE Ph: (07) 3260 1406
(07) 3260 1463
Fax: (07) 3260 1408
SYDNEY Ph: (02) 825 0044
Fax: (02) 825 0176

CERTIFICATE OF TANK DESTRUCTION

BRIDGE ST. WILSON

	KI	No
1)	15	1
2)	20	2
3)	15	1
4)	13	1
5)		
6)		

6) CHARLIE BARBER

DATE

1) 21.5 2) 21.5
3) 21.5 4) 21.5
5) 21.5 6) 21.5

Name: sch4p4(6) Personal information _____ Company Officer

Signed: _____ Company Officer

for: _____

JOHN F. TAYLOR & SONS (QLD) PTY LTD
A.C.N. 071 332 119



INDUSTRIAL AND ENVIRONMENTAL SERVICES DIVISION
ACN 009 076 555

508 City Road
South Melbourne VIC 3205
Telephone: (03) 9699 8333
Facsimile: (03) 9699 9695

SAMPLE RECEIPT ACKNOWLEDGMENT

TO: OTEK Australia
ATTN: Ms Stephanie Williams
FROM: Mrs Marie Christopolous
DATE: 22/05/98

FAX NO: 07 3279 5377

PAGES: 1 of

We have received the samples referenced below, chilled and in appropriate containers.
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 Marie Christopolous.

Your Order Number :
Our Reference Number :
Date Received by Amdel :
Quotation Supplied :

B98080/10637
8B00200
22/05/98
No / Yes

Quote No.....

ANALYSIS REQUESTED

Total Petroleum Hydrocarbons
Benzene, Toluene, Ethylbenzene & Xylene
Metals by AAS

AMDEL METHOD**CODE**

E1220

E1010

E5980

**NUMBER OF
SAMPLES**

27

27

27

**ESTIMATED
REPORT DATE**

28/5/98



50% SURCHARGE*

100% SURCHARGE*

* 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 PAUL ADORNO



INDUSTRIAL AND ENVIRONMENTAL SERVICES DIVISION
ACN 009 076 555

108 City Road
South Melbourne VIC 3205
Telephone: (03) 9699 8333
Facsimile: (03) 9699 9695

SAMPLE RECEIPT ACKNOWLEDGMENT

TO: OTEK Australia
ATTN: Ms Stephanie Williams
FROM: Mrs Marie Christopolous
DATE: 04/06/98

FAX NO: 07 3279 5377

PAGES: 1 of

We have received the samples referenced below, chilled and in appropriate containers.
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 Marie Christopolous.

Your Order Number :
Our Reference Number :
Date Received by Amdel :
Quotation Supplied :

B98080/11701
8B002.7
04/06/98
No / Yes

Quote No.....

ANALYSIS REQUESTED

Total Petroleum Hydrocarbons
Benzene, Toluene, Ethylbenzene & Xylene
Metals by AAS
Metals by ICP-AES
Polynuclear Aromatic Hydrocarbons

AMDEL METHOD

CODE

E1220
E1010
E5980
E5910
E1110

NUMBER OF SAMPLES

14
14
12
2
2

ESTIMATED REPORT DATE

10/6/98



50% SURCHARGE*

100% SURCHARGE*

* 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.

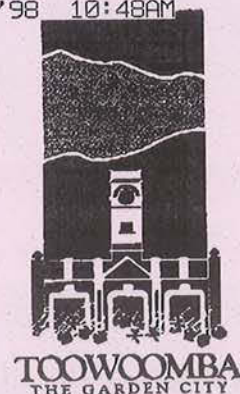
THE CONTACT FOR THIS JOB WILL BE PAUL ADORNO

TOOWOOMBA CITY COUNCIL

Business in Mind, Lifestyle at Heart

8 September, 1998

Karen Hopper
Department of Environment and Heritage
Fax No. 07 3227 8341



HAZARDOUS WASTES AND
CONTAMINATED SITES SECTION

09 SEP 1998

Dear Karen,

RE: 413-415 BRIDGE STREET TOOWOOMBA – LOTS 2 AND 3 RP 106025

Council has received an urgent request from Otek Australia Pty Ltd, 26/500 Seventeen Mile Rocks Road, Seventeen Mile Rocks 4073 seeking removal of the above sites from your contaminated land registers and have submitted data to support their request.

I have made extensive inquiries into their application and supply the following additional information for your consideration.

1. The sites were listed as probable contamination in 1993 and 1994 as a result of information submitted to your department, which indicated that the land was "a landfill site established between 1963 & 1978, existing in 1992 as a service station site – previous use was a quarry. (The landfill is rubbish material)
2. This information was obtained by Council Officers from the best available information at that time.
3. The sites Lots 2 and 3 RP 106025 are situated at 413-415 Bridge Street, Toowoomba on the corner of Richmond Drive.
4. Currently, the land is cleared. The former service station has been demolished, underground tanks removed and is awaiting the construction of new buildings.
5. The lands are adjacent to the Wilsonton Shopping Centre/Hotel-Motel complex; construction for those premises commenced as early as 1972
6. The applicant confirms the existence of a quarry, however he points out that the quarry was on a portion of land which was not and is not either Lot 2 or 3 RP 106025.
7. **Lots 2 and 3 RP 106025** were formerly lots 7 and 8 and were resubdivided as lots 2,3 and 4 RP 106025. **Lots 2 and 3** became house blocks and we are advised that dwellings were erected on each block.
8. Those premises were sold in 1966 and 1968 to Caltex and a service station erected on the sites.
9. Lot 4 RP 106025 later became a part of Lot 2 RP 154197 which is now part of the Wilsonton Shopping Centre.
10. The "Otek" report establishes the quarry and subsequent rubbish fill on the now Lot 2 RP 154197 and **not on either Lots 2 and 3 RP 106025.**

Administration Building
153 Herries Street
Toowoomba Qld 4350

Address all communications to:
The Chief Executive Officer
P.O. Box 3021
Village Fair
Toowoomba Qld 4350

Telephone: (07) 4688 6611
Facsimile: (07) 4638 3830
DX 41103 Toowoomba

11. Dwellings existed on Lots 2 and 3 of RP 106025 up to 1966 and 1968 when both were sold to Caltex.
12. Information currently at hand now indicates that the quarry was situated on the now Lot 2 RP 154197 which is now a car park within the shopping centre complex.
13. It is established that this quarry was filled with rubbish and covered with concrete for use as the car park. The quarry site has been examined as there was a subsidence some years ago. The result of that examination is set out in the extract of the report by Woodward-Clyde.
14. I am aware that you are in possession of the report from OTEK dealing with the testing of **Lots 2 and 3 RP 106025**.

As a result of my inquiries, I am satisfied that

- (a) **Lots 2 and 3 RP 106025** were not part of the quarry or rubbish fill.
- (b) The quarry was on Lot 2 RP 154197 and that rubbish fill took place at that quarry.

Attached are the following documents:

- (i) Portion of report from Woodward-Clyde re Lot 2 RP 154197.
- (ii) Relevant maps.

I trust that this information is of assistance to you.

Yours faithfully

sch4p4(6) Personal information

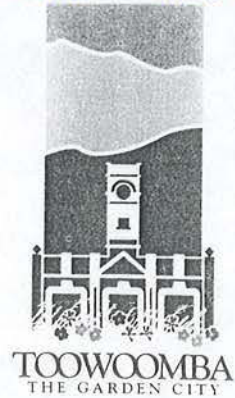
Mike Lisle

ACTING ENVIRONMENTAL HEALTH OFFICER, ENVIRONMENTAL MANAGEMENT

902227

8 September, 1998

Karen Hopper
Department of Environment and Heritage
Fax No. 07 3227 8341



Dear Karen,

98/10343

RE: 413-415 BRIDGE STREET TOOWOOMBA – LOTS 2 AND 3 RP 106025

Council has received an urgent request from Otek Australia Pty Ltd, 26/500 Seventeen Mile Rocks Road, Seventeen Mile Rocks 4073 seeking removal of the above sites from your contaminated land registers and have submitted data to support their request.

I have made extensive inquiries into their application and supply the following additional information for your consideration.

1. The sites were listed as probable contamination in 1993 and 1994 as a result of information submitted to your department, which indicated that the land was "a landfill site established between 1963 & 1978, existing in 1992 as a service station site – previous use was a quarry. (The landfill is rubbish material)
2. This information was obtained by Council Officers from the best available information at that time.
3. The sites Lots 2 and 3 RP 106025 are situated at 413-415 Bridge Street, Toowoomba on the corner of Richmond Drive.
4. Currently, the land is cleared. The former service station has been demolished, underground tanks removed and is awaiting the construction of new buildings.
5. The lands are adjacent to the Wilsonton Shopping Centre/Hotel-Motel complex; construction for those premises commenced as early as 1972
6. The applicant confirms the existence of a quarry, however he points out that the quarry was on a portion of land which was not and is not either Lot 2 or 3 RP 106025.
7. **Lots 2 and 3 RP 106025** were formerly lots 7 and 8 and were resubdivided as lots 2,3 and 4 RP 106025. **Lots 2 and 3** became house blocks and we are advised that dwellings were erected on each block.
8. Those premises were sold in 1966 and 1968 to Caltex and a service station erected on the sites.
9. Lot 4 RP 106025 later became a part of Lot 2 RP 154197 which is now part of the Wilsonton Shopping Centre.
10. The " Otek" report establishes the quarry and subsequent rubbish fill on the now Lot 2 RP 154197 and **not on either Lots 2 and 3 RP 106025.**

Administration Building
153 Herries Street
Toowoomba Qld 4350

Address all communications to:
The Chief Executive Officer
P.O. Box 3021
Village Fair
Toowoomba Qld 4350

Telephone: (07) 4688 6611
Page 26
Fax: (07) 4638 3830
DX 41103 Toowoomba

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12. Information currently at hand now indicates that the quarry was situated on the now Lot 2 RP 154197 which is now a car park within the shopping centre complex.
13. It is established that this quarry was filled with rubbish and covered with concrete for use as the car park. The quarry site has been examined as there was a subsidence some years ago. The result of that examination is set out in the extract of the report by Woodward-Clyde.
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As a result of my inquiries, I am satisfied that

- (a) **Lots 2 and 3 RP 106025** were not part of the quarry or rubbish fill.
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Attached are the following documents:

- (i) Portion of report from Woodward-Clyde re Lot 2 RP 154197.
- (ii) Relevant maps.

I trust that this information is of assistance to you.

Yours faithfully

sch4p4(6) Personal information

MIKE LISIE

ACTING ENVIRONMENTAL HEALTH OFFICER, ENVIRONMENTAL MANAGEMENT



SITE MANAGEMENT

PLAN LOT 2 ON

RP 154 197

TOOWOOMBA

PREPARED FOR
WILSONTON HOLDINGS
PTY LTD

OCTOBER 1995
Project No. A3200033/0001
Document No. R001-A.WP5

Woodward-Clyde

9 October, 1995
Project No. A3200033/0001

Wilsonton Holdings Pty Ltd
566 Ruthven Street
TOOWOOMBA QLD 4350

Attention: Mr Clive Berghoffer

Dear Sir

RE: SITE MANAGEMENT PLAN LOT 2 ON RP154 197, TOOWOOMBA

Please find enclosed a copy of the above Site Management Plan.

We trust you find this in order. Please contact Robert Hosking or Jim Soltau of this office if you have any further queries.

Yours faithfully
WOODWARD-CLYDE

ROBERT HOSKING
Environmental Consultant

sch4p4(6) Personal information

JIM SOLTAU
Principal - Site Assessment and Remediation

A3200033/0001/R001-A.WP5/9 OCT 1995/ RJH:ajb

i

PROPERTY DESCRIPTION

The site is located at the corner of Bridge Street and Richmond Street, Toowoomba (refer Figure 1) and is described as Lot 2 on RP154 197. A description of the site as it was in July 1994; the site history to that date; the topography; hydrology and geology is described in Woodward-Clyde's report entitled "Preliminary Site Contamination Assessment - Part of Lot 2 on RP154 197, Toowoomba.

Discussions with Mr Clive Berghoffer (owner) indicated that the site was purchased by him approximately 25 years ago. Originally the site was used as a gravel quarry. In 1971 uncontrolled landfilling is reported to have been conducted for approximately 2 months.

Figure 2 details Soil sampling conducted in July 1994.

The site has been developed as a shopping centre. The gully containing the landfill material is now situated under the carpark associated with the shopping centre (refer Figure 3).

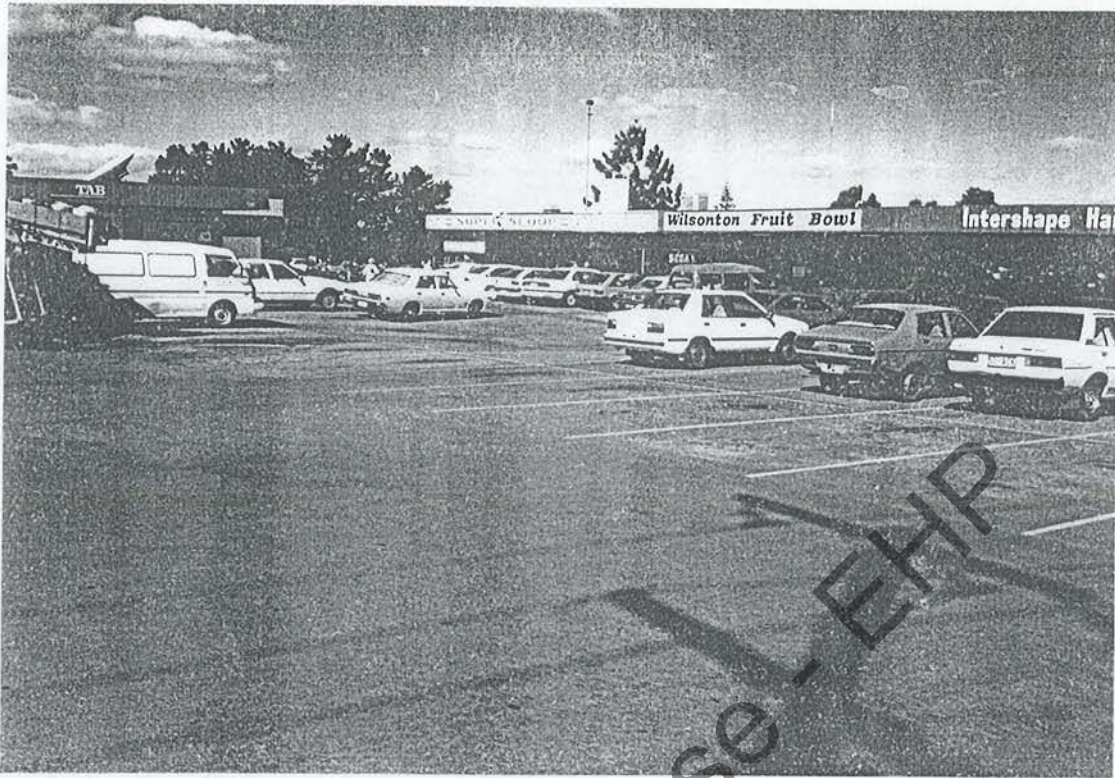
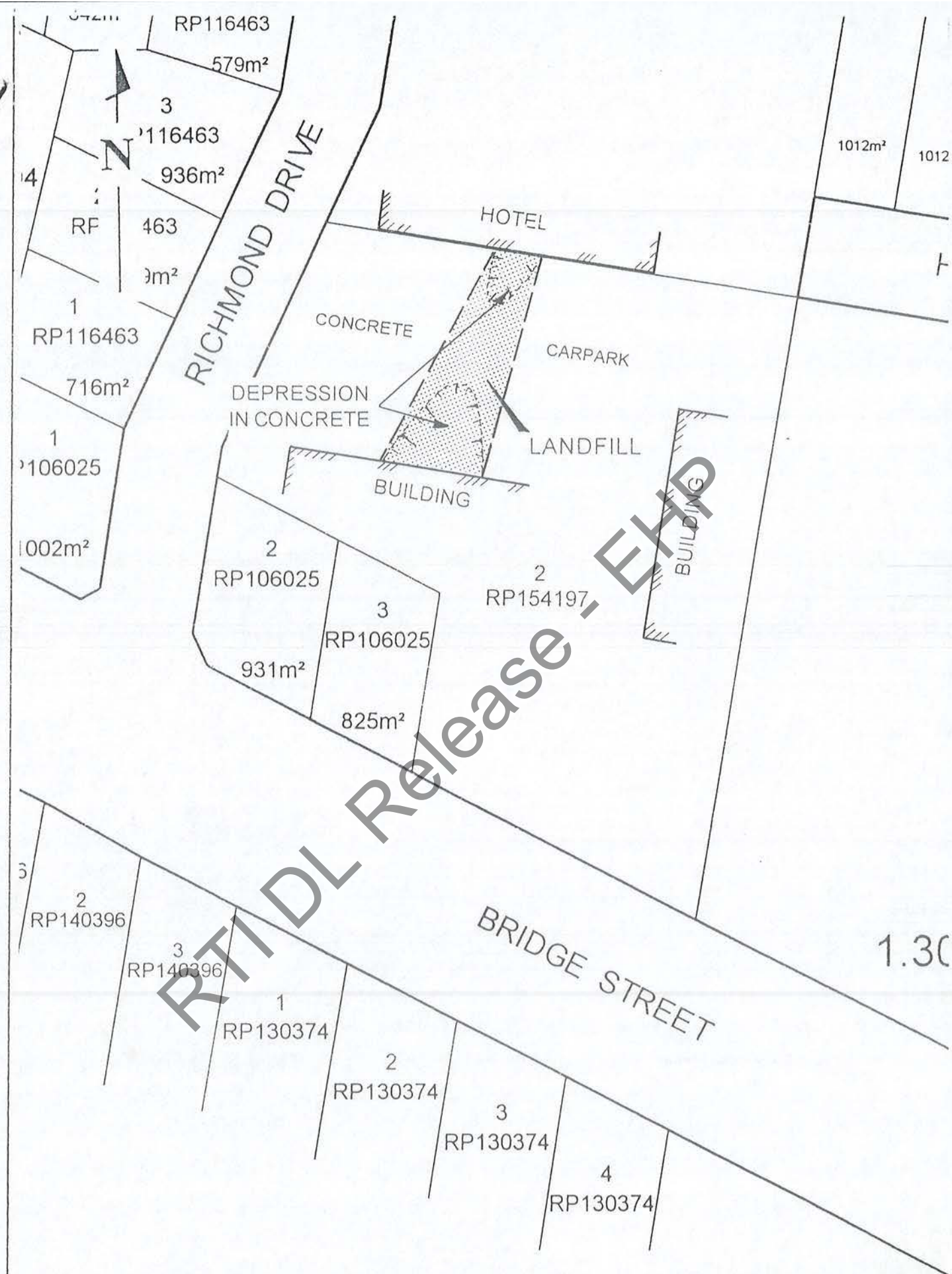


Plate 1: View of Site - Looking South-East.



Plate 2: View of Landfill Area - Looking South-West.



0 10 20 30 40 50m
1:1000

Woodward-Clyde

PREPARED: PL	TITLE: CURRENT SITE PLAN SHOWING LANDFILL AREA		
CHECKED: NEA			
APPROVED:	DRAWING:		
DATE: SEP 95	A3200033-0001-G-003	FIGURE:	3

18 July 1994
Project No. 4645

Wilsonton Holdings Pty Ltd
566 Ruthven Street
TOOWOOMBA QLD 4350

Attention: Mr Clive Berghoffer

Dear Sir

Re: Preliminary Site Contamination Assessment Part of Lot 2 on RP154197,
Toowoomba

Please find enclosed one (1) copy of our draft report regarding the above.

Please contact Mr Rob Hosking, should you have any queries regarding the work
carried out.

Yours Faithfully

Michel Runge
Occupational Hygienist

Trevor Brown
Principal Environmental Consultant

4645LR001-A.WPS\18 JUL 1994\BNE\RJH:sch

i

DRAFT

Woodward-Clyde

5.0

DISCUSSION

The results obtained from the preliminary site contamination assessment work carried out indicate the potential for significant soils contamination at the site.

Five samples (S1, S2, S16, S23 and S27) reported levels of nickel above the Department of Environment and Heritage (DEH) Environmental Investigation threshold of 60mg/kg. The highest concentration was 114 mg/kg reported in S16 at a depth of 2.4 to 2.5m.

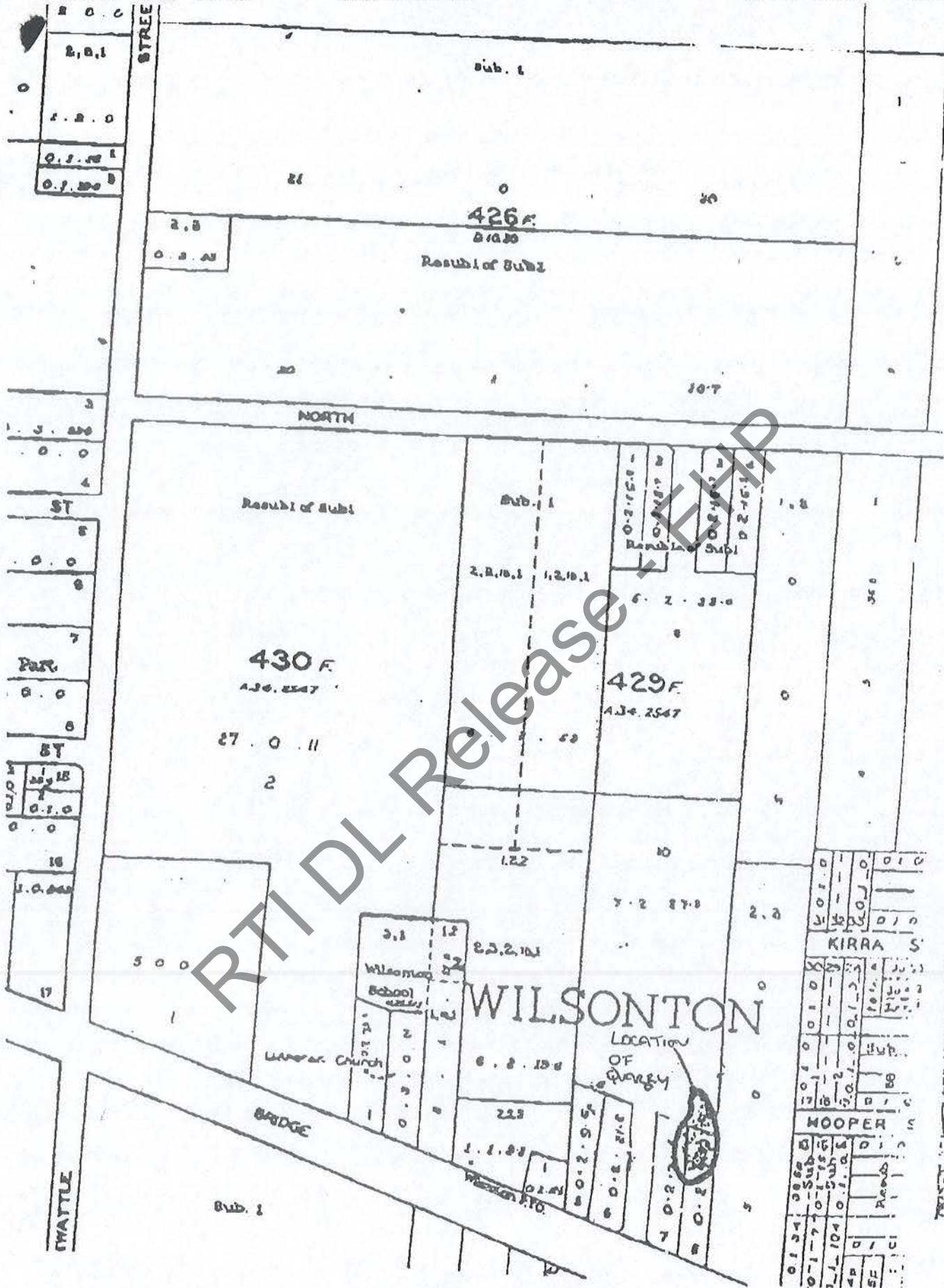
Three samples (S7, S19 and S27) reported levels of zinc above the DEH Environmental Investigation threshold. The highest concentration was 1590 mg/kg reported in S19 at a depth of 3.9 to 4.0m.

Sample S19 taken from AH2 also reported levels of arsenic at a depth of 3.9 to 4.0m, equivalent to the DEH Environmental Investigation threshold of 20 mg/kg.

All samples reported levels of chromium at depths of between 0.1m to 4.0m above the DEH Environmental threshold of 50mg/kg. The chromium concentrations sampled ranged from 131 mg/kg at AH3 (at a depth of between 3.4 to 3.5m) to 391 mg/kg at AH2 (at a depth of between 0.4 to 0.5m).

Sample S7 taken from sample location AH1 at a depth of between 3.9 to 4.0m reported petroleum hydrocarbon concentrations at levels exceeding the DEH Environmental Investigation threshold for medium to heavy range petroleum hydrocarbons (C_{10} - C_{14} , C_{15} - C_{28} , C_{29} - C_{36}). Medium to heavy range petroleum hydrocarbons (C_{15} - C_{28} , C_{29} - C_{36}) were recorded in sample S27 taken from auger hole AH3. the levels of hydrocarbons however were reported at levels below the DEH environmental threshold.





PLAN 'A' - PRIOR TO 1964 SHOWING QUARRY SITE

This plan MUST NOT BE FOLDED but may be rolled.

106025

106025

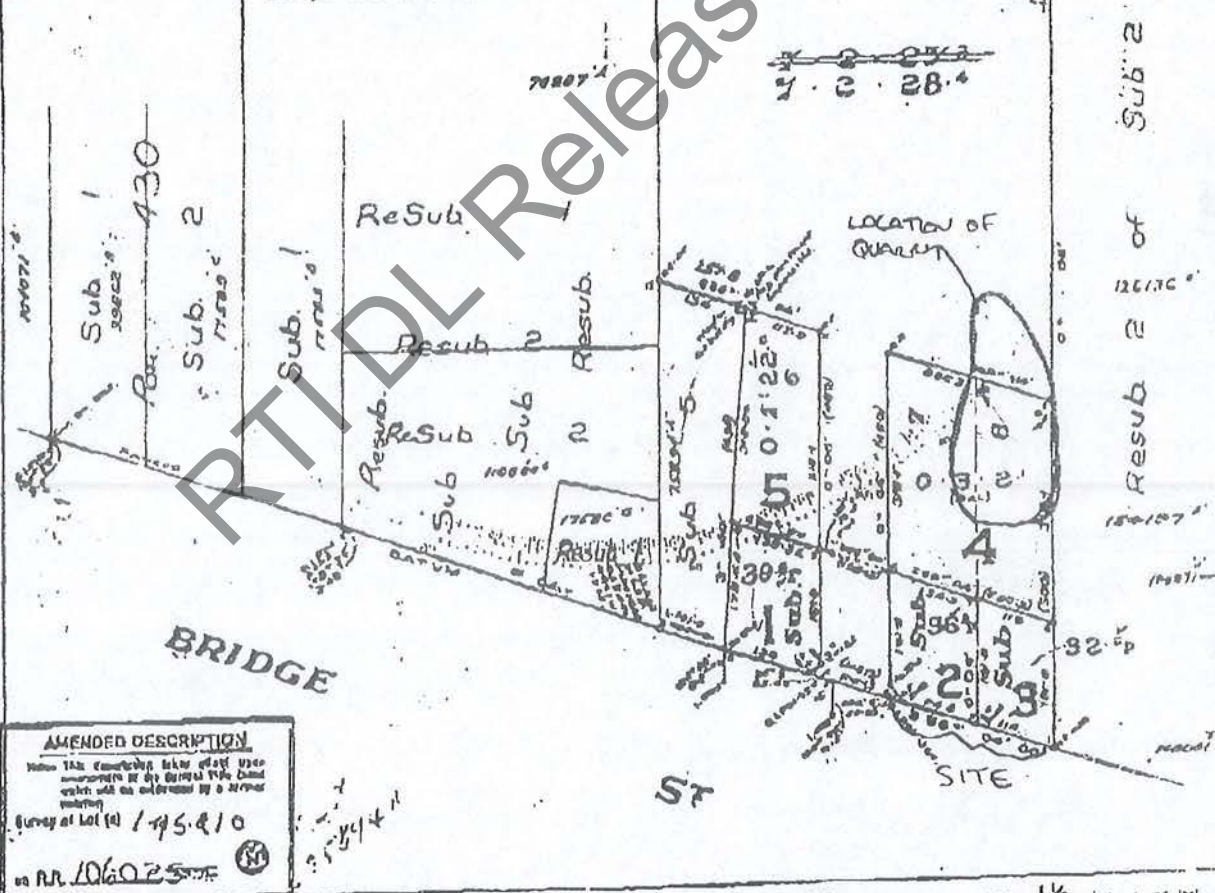
Additional and
additions in Sub 10

(only) Sub 10

I certify that Sub 10 has been
correctly copied and compiled
from my survey as shown in
black figures and from Plan No.
106025 in the Office of the Registrar
of Titles, Brisbane as shown in
boxed figures hereon.

sch4p4(6) Personal information

Cully Surveyor



AMENDED DESCRIPTION

Notes: This description is to be used
as a guide only. It does not
constitute a warranty of any kind
and is subject to the terms and
conditions of the plan.

Survey of Lot (a) 1/15/10

as per 106025

Sub 10 and Resubs 1 to 9 of Sub 10
to 3 of Resub 1A of Sub 1 of

Surveyed by: [Signature] 10/9/98

CROWN COPYRIGHT RESERVED
REGISTERED OF TITLES, QUEENSLAND

Orig. Portion 429 Scale 1/4000 (that is to 24 in.)

Town of [Signature]

Parish of [Signature]

REGISTERED PLAN 106025

GSP

PLAN B' - SUBDIVIDED LAND INTO RESIDENTIAL

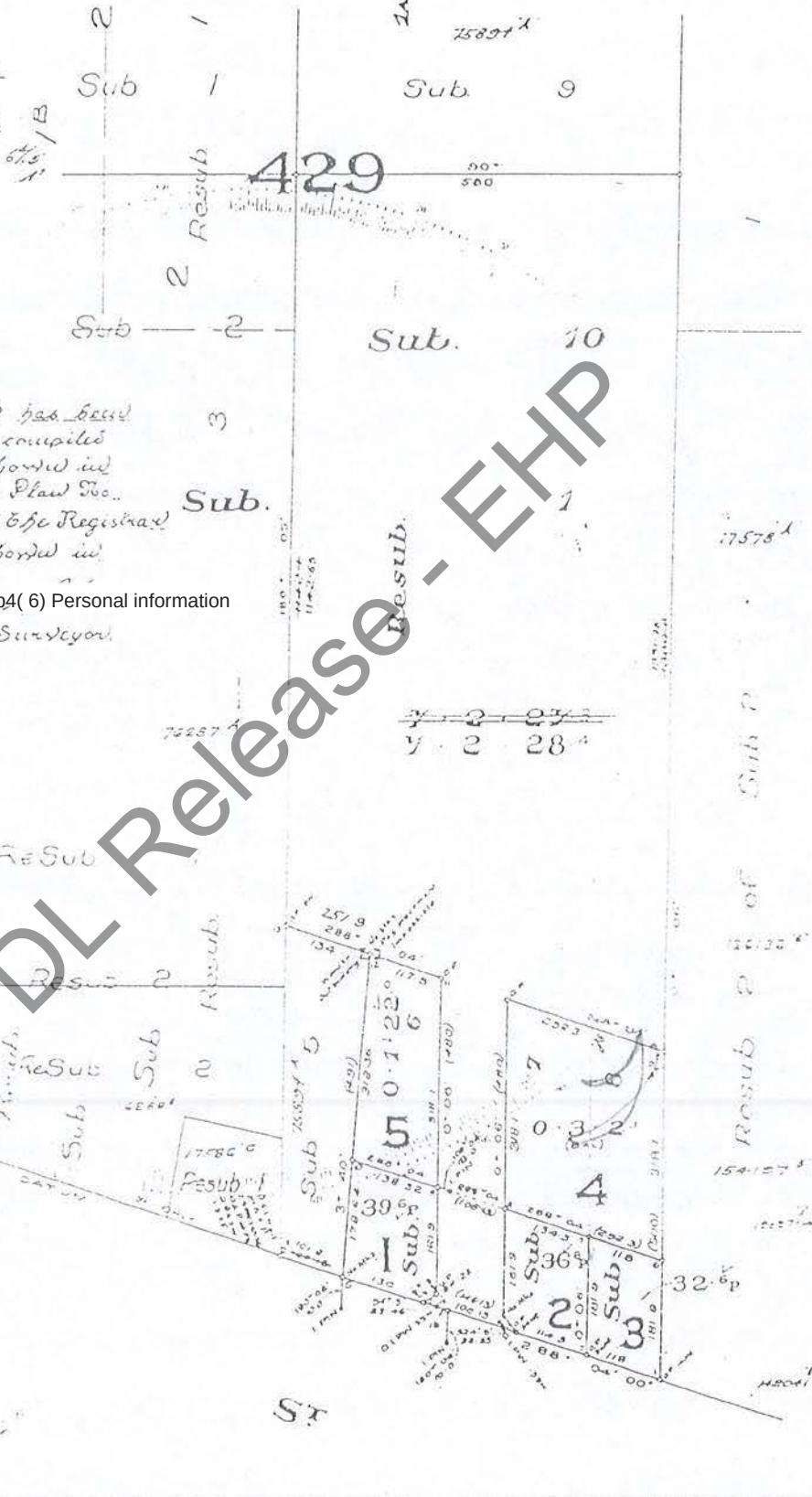
This plan MUST NOT BE FOLDED but may be rolled.

106025

106025

Alterations and
additions in Red by me.

Auth. Surveyor



I certify that Sub 10 has been
correctly copied and compiled
from my survey as shown in
black figures and from Plan No.
12894 in the Office of the Registrar
of Titles, Brisbane as shown in
brown figures hereon.

sch4p4(6) Personal information

Auth. Surveyor

Drawing of Plan must be restricted to the space inside the blue lines

Drawing of Plan must be restricted to the space inside the blue lines

AMENDED DESCRIPTION

Note: This description takes effect upon
amendment of the current Title Deed
which will be evidenced by a further
notation.

Survey of Lot (s) 1 to 5 & 10

on R.R. 106025

Sub 10 and Resubs 1 to 5 of Sub 9
to 8 of Resub 1A of Sub 1 of

Orig. Portion 429

SCALE 1/2 chains to an inch

Town of Toowoomba

Parish of Drayton

Surveyed by BURNETT, W. PARKER 13/01/1964

CROWN COPYRIGHT RESERVED
REGISTRAR OF TITLES, QUEENSLAND

REGISTERED PLAN 106025

CSP



WISONSOTON HOLDINGS - "Contaminated Land"

182
 2759 1/10000
 431 420
 City of TOOWOOMBA
 REGISTERED PLAN 154197
 12/1/1976
 182

RTI 13-019

P.01/03

ST

DRIVE

RYE

ST

FITZPATRICK

51

STELLA CT

KIRRA

SCHOOL
RESERVE

WILSON

MOTTRAM CT

HOOPER ST

100

STREET

122053

Methodist Church

ROGE

206

12.11

35.

0/10.20

123005

32-3

Plan

RTD 13-019

PLAN

teno.

72 Supplemental
Collection 1
SUBDIVISION

Page 30

Releas

TOOWOOMBA CITY COUNCIL

ENVIRONMENT & HEALTH BRANCH



To: Karen HOPPER
DEPT OF E & H Fax No: 07 3227 8341
From: Muki Lisle
TOOWOOMBA City Council Contact No: 07 4688 6834
Date: 11-9-98 No of Pages: 13
(including this page)

FAX MESSAGE

Subject: 413-415 Bridge St.
As promised, here are documents - (Maps + Report Woodward Clyde)
referred to in my fax on 9.9.98. Hard copy to follow
in mail.

(6) Personal information

ENVIRONMENT & HEALTH BRANCH

153 Herries Street, PO Box 3021, Village Fair, TOOWOOMBA QLD 4350
Phone (07) 4688 6822 Facsimile (07) 4688 6897



SITE MANAGEMENT

PLAN LOT 2 ON

RP 154 197

TOOWOOMBA

PREPARED FOR
WILSONTON HOLDINGS
PTY LTD

OCTOBER 1995
Project No. A3200033/0001
Document No.R001-A.WP5

Woodward-Clyde



Woodward-Clyde



Engineering & sciences applied to the earth & its environment

9 October, 1995
Project No. A3200033/0001

Wilsonton Holdings Pty Ltd
566 Ruthven Street
TOOWOOMBA QLD 4350

Attention: Mr Clive Berghoffer

Dear Sir

RE: SITE MANAGEMENT PLAN LOT 2 ON RP154 197, TOOWOOMBA

Please find enclosed a copy of the above Site Management Plan.

We trust you find this in order. Please contact Robert Hosking or Jim Soltau of this office if you have any further queries.

Yours faithfully
WOODWARD-CLYDE

sch4p4(6) Personal information

ROBERT HOSKING
Environmental Consultant

JIM SOLTAU
Principal - Site Assessment and Remediation

A3200033/0001/R001-A.WP5/9 OCT 1995/ RJH:ajb

i

AGC Woodward-Clyde Pty Ltd (ACN 000-691-690) • A subsidiary of Woodward-Clyde International
49 Park Road, Milton, Qld 4064 • P.O. Box 1528, Milton Qld 4064 • Tel: (07) 364 7444 • Fax: (07) 364 7477

Woodward-Clyde**3.0****PROPERTY DESCRIPTION**

The site is located at the corner of Bridge Street and Richmond Street, Toowoomba (refer Figure 1) and is described as Lot 2 on RP154 197. A description of the site as it was in July 1994; the site history to that date; the topography; hydrology and geology is described in Woodward-Clyde's report entitled "Preliminary Site Contamination Assessment - Part of Lot 2 on RP154 197, Toowoomba.

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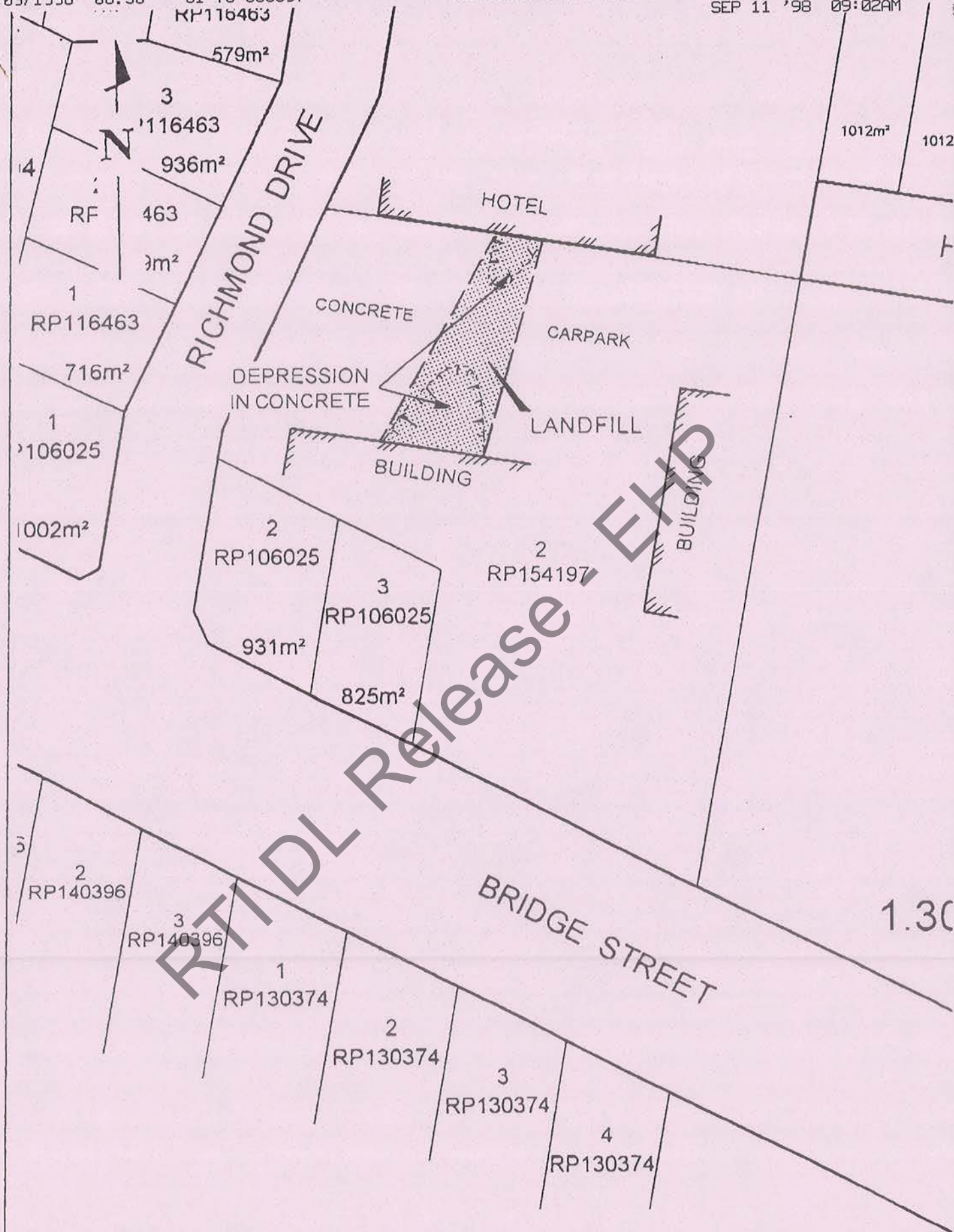
Woodward-Clyde



Plate 1: View of Site - Looking South-East.



Plate 2: View of Landfill Area - Looking South-West.



Woodward-Clyde

PREPARED: PL	TITLE: CURRENT SITE PLAN SHOWING LANDFILL AREA
CHECKED: NEA	
APPROVED:	DRAWING:
DATE: SEP. 95	A3200033-0001-G-003
	FIGURE: 3

Woodward-Clyde 

Engineering & sciences applied to the earth & its environment

18 July 1994
Project No. 4645

Wilsonton Holdings Pty Ltd
566 Ruthven Street
TOOWOOMBA QLD 4350

Attention: Mr Clive Berghoffer

Dear Sir

Re: Preliminary Site Contamination Assessment Part of Lot 2 on RP154197,
Toowoomba

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Please contact Mr Rob Hosking, should you have any queries regarding the work carried out.

Yours Faithfully

Michel Runge
Occupational Hygienist

Trevor Brown
Principal Environmental Consultant

4645LR001-A.WP5\18 JUL 1994\BNE\RJH:seh

DRAFT

 **AGC Woodward-Clyde Pty Ltd** (ACN 000-691-690) • A subsidiary of Woodward-Clyde International
49 Park Road, Milton, Qld 4064 • P.O. Box 1528, Milton Qld 4064 • Tel: (07) 364 7444 • Fax: (07) 364 7477

JUL 19 '94 10:09AM WOODWARD CLYDE BRIS OT 364 7477

Woodward-Clyde

5.0

DISCUSSION

The results obtained from the preliminary site contamination assessment work carried out indicate the potential for significant soils contamination at the site.

Five samples (S1, S2, S16, S23 and S27) reported levels of nickel above the Department of Environment and Heritage (DEH) Environmental Investigation threshold of 60mg/kg. The highest concentration was 114 mg/kg reported in S16 at a depth of 2.4 to 2.5m.

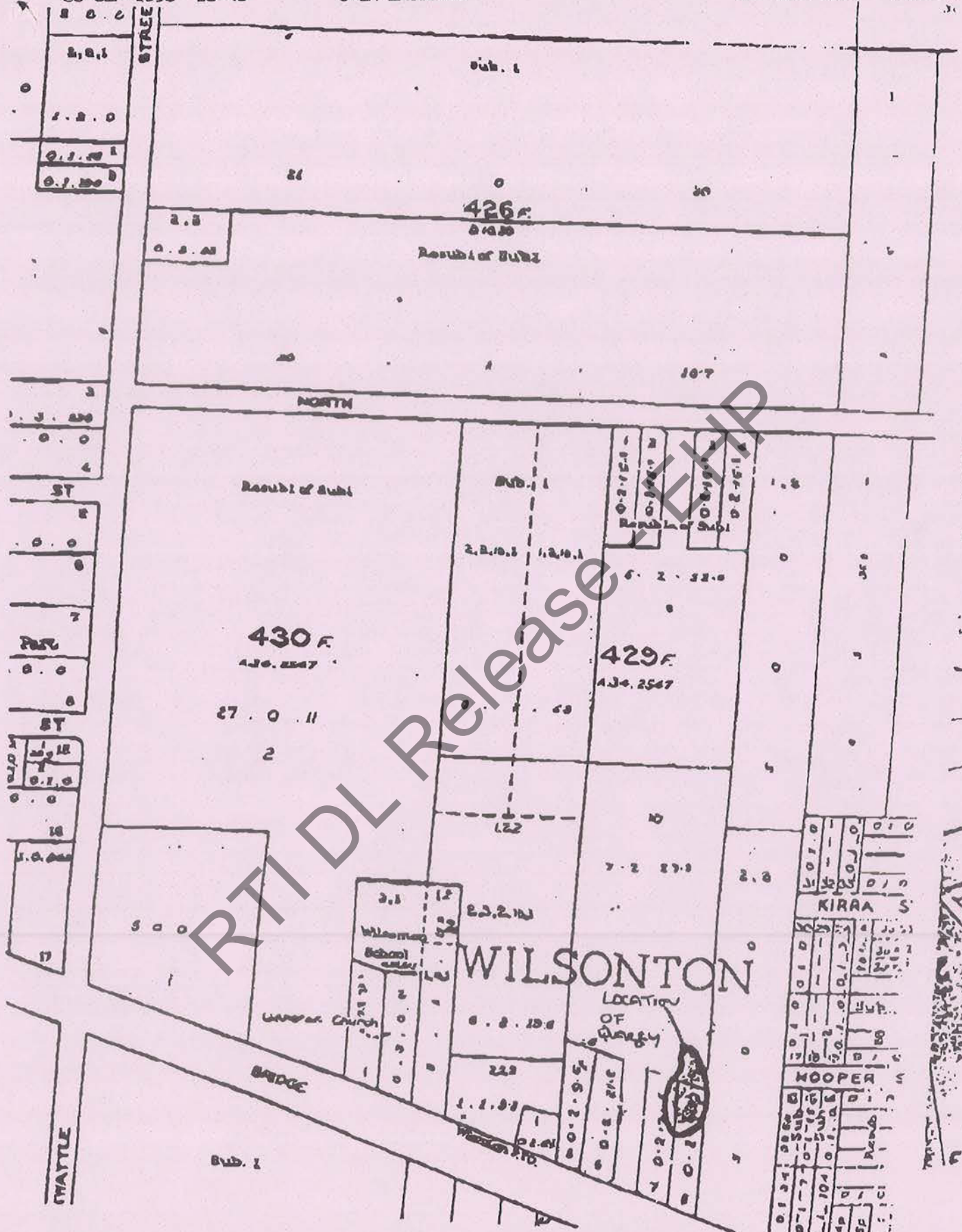
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Plan 'A' - Prior to 1964 showing Quarry Site

This plan MUST NOT BE FOLDED but may be rolled.

Stations auf
Stationen im Feld bei uns

17/11/2022

sch4p4(6) Personal information

A. verify the Sub 10 per head
searching, tested and compared
frankly survey as shown in
black square and small. Plaid the
12000 in the office of the Registrar
of Births, Brisbane as shown in
birth figures, personal.

Full Surveyor

AMENDED DESCRIPTION

Survey of Lat (N) 145.410

NR 10602576

Ex. 9.12 and Ex. 9.13 of Sub. 6.
Ex. 9.14 of Sub. 6.

Orig. Portion... 92.9

SCALE... $1\frac{1}{2}$... chains to 94 feet.

Parish of, Draxton

REGISTERED PLAN 106025

Surveyed by James H. Jones 12/10/64 Crown Corridor Refers
to Area of Area of Area

CHOW CHOW CHOW CHOW CHOW CHOW
CHOW CHOW CHOW CHOW CHOW CHOW

PLAN B' - SUBDIVIDED LAND INTO RESIDENTIAL
1964

RP 106025 REGISTERED CURRENT A: 224ep1096 Page 1 of 2

This plan **MUST NOT BE FOLDED** but may be rolled.

Alterations and
additions in FCS by me,

Auth: Suvajou.

sch4p4(6) Personal information

I certify that Sub 10 has been correctly copied and compiled from my survey as shown in black figures and from Plan No. 7599 in the Office of the Registrar of Titles, Brisbane as shown in brood figures herewith.

Auth. Surveyor.

Drawing of Plan must be restricted to the space inside the blue lines

Drawing of Plan must be restricted to the space inside the blue lines

AMENDED DESCRIPTION

Notes: This excavation was first upon
entrance of the cut-off line. Dred
which was by wisdom by a turner
noted.

Survey of LCI (a) 155.810

on R.R. 106023

NOTE Sub. 10 and Resubs 1 to 5 of Sub. 9 Orig. Portion 229 SUE 1 1/2 chains to 2nd inch
to 8 of Resub 1A of S-1 of

Orig. Portion.....42.9

SCALE..... $1\frac{1}{2}$... chains to 1" IN CH

Parish of Drayton

Surveyed by...BURDELL...on 19/6/1962

CROWN COPYRIGHT RESERVED
REGISTRAR OF TITLES, QUEENSLAND

CROWN COPYRIGHT RESERVED
 REGISTRAR OF TITLES, QUEENSLAND

REGISTERED PLAN 106025

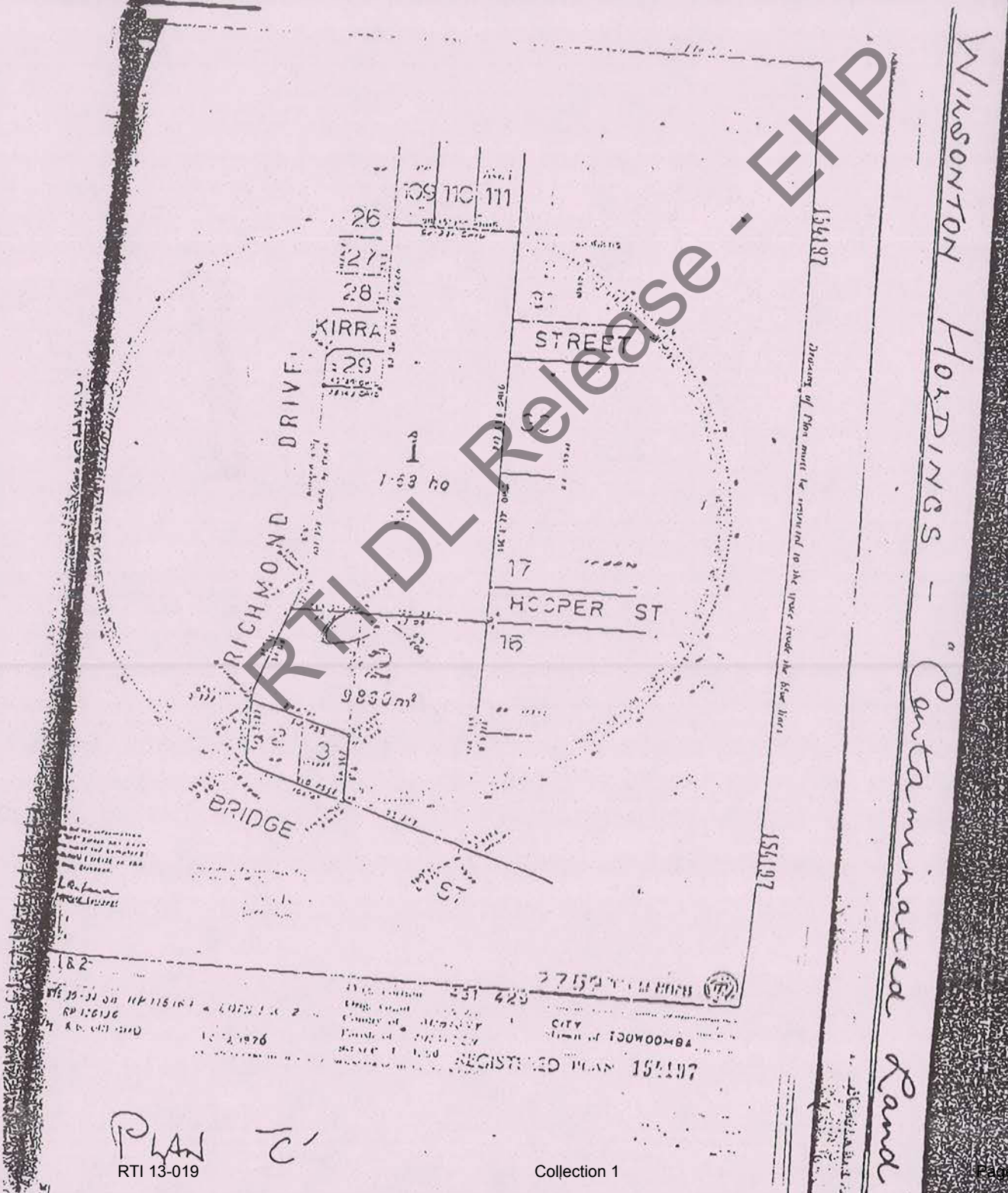
12:58

RTI 13-019

RTI 13-019 PLAN B

Collection

Page 50



03-SEP-1998 13:46

OTEK BRISBANE

07 3279 5377

P.01/03

ROUTER

ST

RYE

51

FITZPATRICK

51

SCHOOL
RESERVE

WILSON

STELLA CT

KIRRA

HOOPER ST

MOTTRAM CK

RICHMOND

SITE

FRYIN

Topic

122053

12.11

3.1.36.3

435 A.

0/12.20

12300s

22-3

RTI 13-019

PLAN

Сенді

Collection 1

Page 52

Release

DOE - WASTE MGMT (07 32278341)

(AUTO)

THE FOLLOWING FILE(S) ERASED

FILE	FILE TYPE	OPTION	TEL NO.	PAGE	RESULT
007	MEMORY TX	CONTAMINATED LAND	00746886897	05/05	OK

ERRORS

1) HANG UP OR LINE FAIL 2) BUSY 3) NO ANSWER 4) NO FACSIMILE CONNECTION

DEPARTMENT OF ENVIRONMENT
AND HERITAGE

FAX COVER SHEET

Fax number (07) 3227 8341
Phone enquiry (07) 3225 1999160 Ann Street
Brisbane 4000PO Box 155
Brisbane Albert Street 4002Date *Mike Munk 31/8/98* Time sent *1:35*

Please deliver the following pages to:

Name *Mike Lyle*Business/Section *Toowoomba City Council*Fax number *(07) 4688 6897*

From

Name: *K Hopper*Section *Cont Land*Number of pages *5* (including facsimile cover sheet)

Special precedence

R1113-019



Confidential



Collection Urgent



DEPARTMENT OF ENVIRONMENT AND HERITAGE

FAX COVER SHEET

Fax number (07) 3227 8341
Phone enquiry (07) 3225 1999

160 Ann Street
Brisbane 4000

PO Box 155
Brisbane Albert Street 4002

Date *MM/AA/YY 31/8/98* Time sent *1:35*

Please deliver the following pages to:

Name *Mike Lyle*

Business/Section *Toowoomba City Council*

Fax number *(07) 4688 6897*

From

Name: *K Hopper*

Section *Cont Land*

Number of pages *5* (including facsimile cover sheet)

Special precedence ☒ Confidential ☐ Urgent

THE FOLLOWING FILE(S) ERASED

FILE	FILE TYPE	OPTION	TEL NO.	PAGE	RESULT
076	MEMORY TX	CONTAMINATED LAND	038089905	02/02	OK

ERRORS

1) HANG UP OR LINE FAIL 2) BUSY 3) NO ANSWER 4) NO FACSIMILE CONNECTION



DEPARTMENT OF ENVIRONMENT

FAX COVER SHEET

Fax number (07) 3227 8341
Phone enquiry (07) 3225 1999

160 Ann Street
Brisbane 4000

PO Box 155
Brisbane Albert Street 4002

Date

31/7/98

Time sent

Please deliver the following pages to:

Name

CUTLACK

Business/Section

Fax number

3808 9905

From

CONTAM SITES

Name

Section

Number of pages

2

(including facsimile cover sheet)

Special precedence

☐

Confidential

☐

Urgent

RTI 13-019

Collection 1

Release

Page 55

AS REQUESTED

Notification of Contaminated Site

The following information should be supplied by people providing notification to the CHEM Unit of contaminated land or land used for a prescribed purpose under the *Contaminated Land Act 1991* and the *Contaminated Land Regulation 1991*.

Essential Information

Local Authority Area:- THE CITY OF TOOWOOMBA

Information provided by:-

Name: GORDON S ADAMS Contact Telephone No: (076) 316 740

Organisation: TOOWOOMBA CITY COUNCIL

Address: 153 HERRIES STREET

TOOWOOMBA Postcode 4350

Name by which the property is known locally:-

CALTEX WILSONTON STAR

Location:-

Street Address CNR BRIDGE & RICHMOND DRIVE

City TOOWOOMBA Postcode 4350

Lot-on-Plan Description of each parcel of land (individual parcels of land which make up the property should be included. Please make a separate attachment if there is more than one parcel):

LOT 2-3 RP106025 ✓ PP 3516

Land Titles Register Volume and Folio Number for each parcel (see also above remarks in brackets concerning multiple land parcels).

Name and Postal Address of Owner:-

Name CALTEX OIL (AUSTRALIA) PTY LTD

GPO BOX 820

Address BRISBANE QLD 4001

Postcode _____

Cont'd /2

Description of the source of the suspected contamination or the prescribed purpose for which the land is or has been used (a short description of the land use or cause of contamination will be sufficient. A separate attachment can be made if space is insufficient).

AN ESTABLISHMENT EXISTING DURING 1992 SUPPORTING A FUEL DEPOT AND STORAGE AREA USE (LICENSED FLAMMABLE AND COMBUSTIBLE LIQUIDS)

Desirable and additional Information

Area of each parcel in square metres (this information is useful as a cross-check on the land description details):-

1755 M²

Current local authority zoning of the land:- COMMERCIAL B

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

If further information is required please contact:

The Clerk (Contaminated Land),
CHEM Unit,
A Division of the Bureau of Emergency Services
G.P.O. Box 1425
Brisbane, Qld 4001
Telephone (07) 227 4144
Facsimile (07) 227 4466

149-017
149-0172

Notification of Contaminated Site

The following information should be supplied by people providing notification to the CHEM Unit of contaminated land or land used for a prescribed purpose under the *Contaminated Land Act 1991* and the *Contaminated Land Regulation 1991*.

Essential Information

Local Authority Area:- THE CITY OF TOOWOOMBA

Information provided by:-

Name: GORDON S ADAMS Contact Telephone No: (076) 316 740

Organisation: TOOWOOMBA CITY COUNCIL

Address: 153 HERRIES STREET

TOOWOOMBA Postcode 4350

Name by which the property is known locally:-

CALTEX SERVICE STATION

(KNOWN IN 1992 AS THE WILSONTON STAR SERVICE STATION)

Location:-

Street Address 413 - 415 BRIDGE STREET

City TOOWOOMBA Postcode 4350

Lot-on-Plan Description of each parcel of land (*individual parcels of land which make up the property should be included. Please make a separate attachment if there is more than one parcel*):

LOT 2 - 3 ON RP 106025

Land Titles Register Volume and Folio Number for each parcel (*see also above remarks in brackets concerning multiple land parcels*).

Name and Postal Address of Owner:-

NAME CALTEX OIL (AUSTRALIA) PTY LTD
G P O BOX 820
BRISBANE QLD 4001

Address

Postcode

10/3/93
Cont'd /2

Description of the source of the suspected contamination or the prescribed purpose which the land is or has been used (*a short description of the land use or cause of contamination will be sufficient. A separate attachment can be made if space is insufficient*).

A LANDFILL SITE ESTABLISHED BETWEEN 1963 & 1978 EXISTING IN 1992 AS A SERVICE STATION SITE - PREVIOUS USE WAS A QUARRY

(THE LANDFILL IS RUBBISH MATERIAL)

(MAKING UP PART OF THE TOTAL LANDFILL BEING 2250M²)

Desirable and additional Information:

Area of each parcel in square metres (*this information is useful as a cross-check on the land description details*):-

1755 M²

Current local authority zoning of the land:- COMMERCIAL B

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

If further information is required please contact:

The Clerk (Contaminated Land),
CHEM Unit,
A Division of the Bureau of Emergency Services
G.P.O. Box 1425
Brisbane, Qld 4001
Telephone (07) 227 4144
Facsimile (07) 227 4466

Memorandum

To R. Le

File reference 902227

From Ariane Milinovich

Subject Caltex Sura Bridge St Timba.

Date 19/8/98.

Notes

Phone call from Mike Lish - ELTO Timba ph (07) 4688 6834.
He'd received a call & fax from Stephanie Williams
of OTEK asking for paperwork for the above site.

The fax was headed something like 'confidential
- something about litigation'. so Mike contacted
us to see if we had any objection to release of documents.

I advised report recently received re survey a
check of air records showed also notified by Council
as land fill. ∴ new notice sent to owners.

I don't think the site history mentioned land fill
so either

1. site isn't part of land fill, if consultants can establish
this we can delete reference or
2. site history wasn't very thorough

Council is nervous now litigation has been
mentioned so I advised Mike to get OTEK to call us.

Karen Hopper
(07) 3227 7983

17 August 1998

Ms Julia Wharton
OTEK Australia Pty Ltd
26/500 Seventeen Mile Rocks Road
SEVENTEEN MILE ROCKS Q 4073

Dear Ms Wharton

**RE: Former Caltex Service Station, 413 Bridge Street, Toowoomba
(Lots 2 & 3 on RP 106025)**

The Department of Environment and Heritage (DEH), Hazardous Wastes and Contaminated Sites Section (HW&CSS) has reviewed the following reports:

- Site Decommissioning, Caltex Service Station, Wilsonton, Queensland.

Pursuant to s118S of the *Environmental Protection Act 1994* (EP Act), notice is hereby given that the following additional information is required to assist in the assessment of this report with respect to potential health and environmental concerns relating to contaminated land:

1. DEH received notification from Toowoomba City Council in 1993 concerning the above two properties advising that "a landfill site was established between 1963 and 1978 and that the previous use of the site was as a quarry". Please provide additional clarification concerning this listing.
2. Please provide the disposal receipts for the tanks removed from site.
3. I refer to the Sample Receipt Advice Forms (SRA) provided by Amdel. These forms do not specify the quality of the sample when it was received at the laboratory (other than within storage times). Please provide information indicating the samples were received in good order.
4. Please provide the sample depths for all samples and the depths of the excavations on site.

This information must be forwarded to the DEH no later than 17 February 1999 and you may apply for a review of or appeal against this notice within 14 days of receipt. On receipt of the required information, the assessment period will recommence.

Please do not hesitate to contact me should you require additional assistance.

Yours sincerely

sch4p4(6) Personal information

Karen Hopper
Senior Environmental Officer (Contaminated Sites Section)

RTI DL Release - EHP

Memorandum

To File

File reference 902227

From K Hopper

Subject Bridge St, Townsboro.

Date 17/8/98

Notes ①

Notif - site & used quarry + L/F
L/F '63-78 - 2250m³?

L 2+3 RP 106025.

S/S op 25yrs - prior res

5xUST, 4xbowers, 1xTIT, w/o-AST
w' shop 2xkerp AST.

Silty clay to 3.5m.

517m³ impacted soil excav + rem.

UST #2 abandoned before licence -1995
2x 450L kero AST.

Built around 1970

1969 - 2x res prop.

84-88 93 - same as 75 - u/wment.

mgr - heat was not 1/ground.

Bowers removed prior to OTER.

UST's + TIT - 19-21/5/98.

→ receipts for tanks?

480m³ - tanks - A-1

24m³ - w/o, TIT nth area A-1.

6m³ - bower - A-2

7m³ - nth bower - A-3

2m³ - ✓ - A-4

Memorandum

To

File reference

From

Subject

Date

Notes

A1 - divided into 50m³ lots

A-1/V1 - A-1/V-10 (9+10 TIT).

- Excar b' filled new soil + clean fill.

19th/5 - walk over

- entire surf covered (garden beds)

- good condition.

- no indie kerb AST - situated on concrete → ↓ risk

- w/o AST - nth wall service bay

H/C surf staining on concrete under however concrete good condit.

- A/g kerb - concrete surface in good condit - no evidence of kerb.

- tanks 1, 3 + 4 good condit - no holes
2 - sand abandoned.

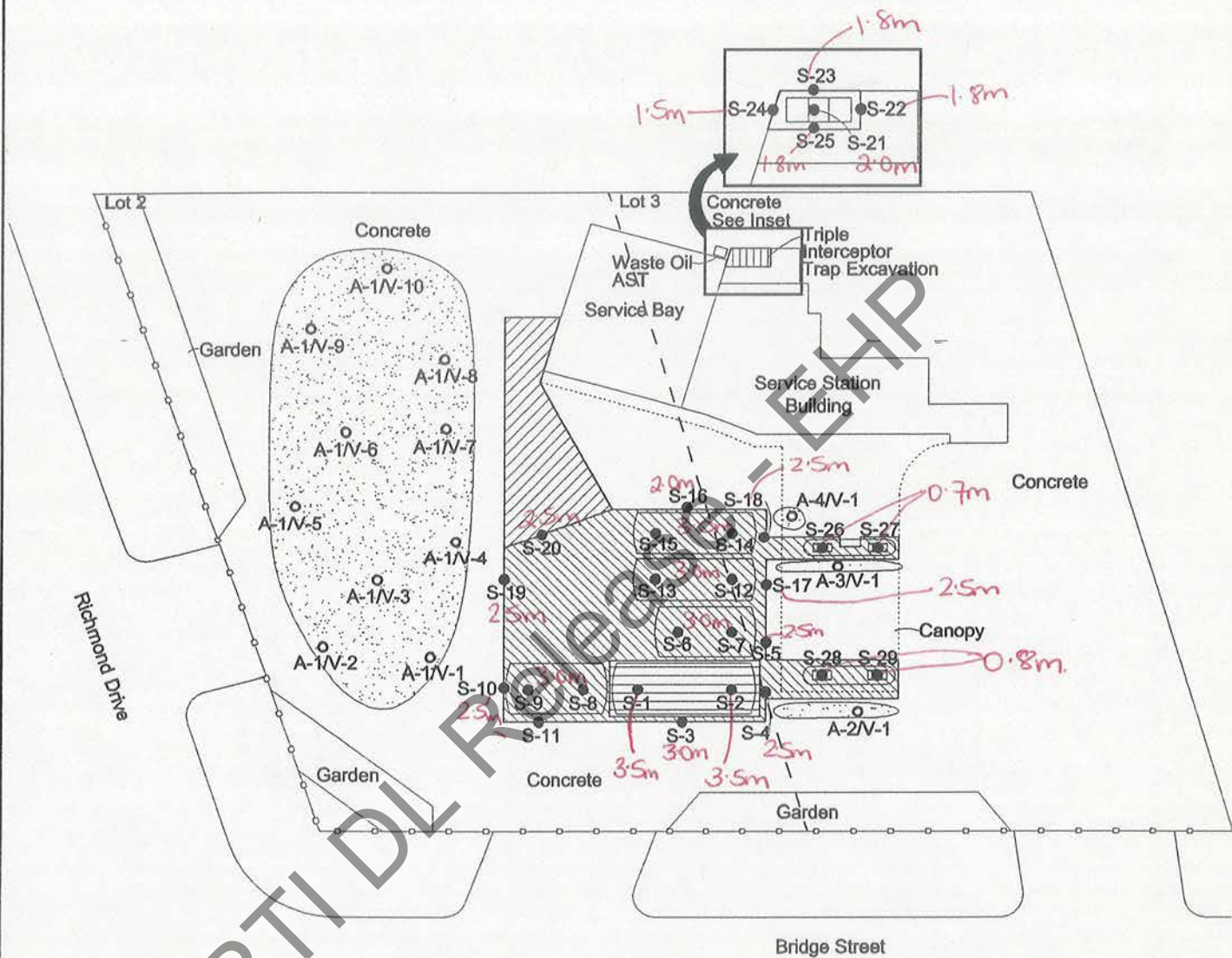
2nd x 5 - fibreglass lined tank - good condit

- red + orange mottled silty clay ↓ 3-5m B65

* Sample Receipt Acknowledgment from AMDEL does not specify condition samples received etc

* No sample depths provided.

* depth of excavation.



Legend

- S-# Soil Validation Sample Location
- A-#/V-# Soil Remediation Sample Location
-  Stockpiled Soil

OTek
AUSTRALIA PTY LTD

APPROXIMATE SCALE
1:300

DRAWN DATE

GSD sch 10/06/06

TITLE

REPORT REFERENCE

SITE DECOMMISSIONING

Australian Petroleum Pty Ltd
Wilsons, QLD

CHECKED DATE

Personal information

FIG. #

JOB #

B98080

SOIL SAMPLE LOCATIONS

4

TABLE 2
ANALYTICAL SUMMARY - SOIL SAMPLES (BTEX, TPH & LEAD)
CALTEX SERVICE STATION, 413 BRIDGE STREET
WILSONTON, QUEENSLAND

Sample ID			BTEX					TPH					Lead
			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)	Pb (mg/kg)
CoC	SCA												
✓	S-1		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-2		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-3		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-4		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-5		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-6		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-7		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-8		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-9		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-10		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-11		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-12		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-13		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-14		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-15		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-16		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-17		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-18		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-19		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-20		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	S-21		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
✓	QS-1		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DoE Criteria			1	-	-	-	7	100	100	1000	1000	1000	300
Quantitation Limit			0.1	0.1	0.1	0.3	-	20	20	20	20	-	10
Laboratory Methodology			SERV 1					SERV-1					E5980

Notes:

- Sample ID: S-# denotes a discrete soil sample and QS-# denotes a quality assurance duplicate;
- QS-1 is a duplicate of S-21;
- Samples S-1 to S-21 and QS-1 were obtained on 21 May;
- "nd" denotes concentrations not detected; and
- DoE Criteria as stated in Guidelines for the Assessment of Contaminated Land in Queensland (CHEM Unit, January 1992).

TABLE 2 - CONTINUED
ANALYTICAL SUMMARY - SOIL SAMPLES (BTEX, TPH & LEAD)
CALTEX SERVICE STATION, 413 BRIDGE STREET
WILSONTON, QUEENSLAND

Sample ID	BTEX					TPH					Lead
	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)	Pb (mg/kg)
S-23	nd	nd	nd	nd	nd	-	-	-	-	-	-
S-26	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	38
S-27	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	47
S-28	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-29	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
COMP-1	-	-	-	-	-	nd	nd	nd	nd	nd	nd
A-1/V-1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-6	nd	nd	nd	nd	nd	nd	nd	40	nd	40	nd
A-1/V-7	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-8	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-9	nd	nd	nd	nd	nd	nd	10	36	nd	46	-
A-1/V-10	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-
A-2/V-1	nd	nd	nd	nd	nd	nd	nd	80	nd	80	14
A-3/V-1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	34
A-4/V-1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	61
QS-2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DoE Criteria	1	-	-	-	7	100	100	1000	1000	1000	300
Quantitation Limit	0.1	0.1	0.1	0.3	-	20	20	20	20	-	10
Laboratory Methodology	SERV-1					SERV-1					E5980

Notes:

- Sample ID: S-# denotes a discrete soil sample, COMP-# denotes a composite sample taken of discrete soil samples S-22 to S-25, A-#/V-# denotes a discrete sample taken from an area of stockpiled soil and QS-# denotes a quality assurance duplicate;
- QS-2 is a duplicate of A-1/V-1;
- Samples S-23 to S-29 and COMP-1 were obtained on 21 May and Samples A-1/V-1 to A-1/V-10, A-2/V-1, A-3/V-1, A-4/V-1 and QS-2 were taken on the 3 June 1998;
- "nd" denotes concentrations not detected;
- "-" denotes analysis not requested; and
- DoE Criteria as stated in Guidelines for the Assessment of Contaminated Land in Queensland (CHEM Unit, January 1992).

TABLE 3
ANALYTICAL SUMMARY - SOIL SAMPLES (METALS & PAH)
CALTEX SERVICE STATION, 413 BRIDGE STREET
WILSONTON, QUEENSLAND

Sample ID	Arsenic As (mg/kg)	Cadmium Cd (mg/kg)	Chromium Cr (mg/kg)	Copper Cu (mg/kg)	Nickel Ni (mg/kg)	Zinc Zn (mg/kg)	Lead Pb (mg/kg)	Total PAH (mg/kg)
S-21	nd ✓	nd ✓	181 ✓	26 ✓	11 ✓	19 ✓	nd ✓	nd ✓
COMP-1	nd ✓	nd ✓	384 ✓	27 ✓	28 ✓	21 ✓	nd ✓	nd ✓
A-1/V-9	nd ✓	nd ✓	135 ✓	24 ✓	25 ✓	65 ✓	6 ✓	nd ✓
A-1/V-10	nd ✓	nd ✓	121 ✓	29 ✓	14 ✓	50 ✓	5 ✓	nd ✓
DoE Environmental Criteria	20	3	50	60	60	200	300	-
DoE Human Health Based Criteria	100	20	120,000	1000	600	7000	300	20
Practical Quantitation Limit	5	1	5	5	5	5	5	0.5
Laboratory Methodology	E5910							E1110

Notes:

- S-# denotes a discrete surface sample, COMP-# denotes a laboratory composite sample taken from discrete samples S-22 to S-25, A-#V-# denotes a discrete validation sample taken from an area of stockpiled soil;
- "nd" denotes not detected above the practical quantitation limit;
- Samples S-21 and S-22 to S-25 obtained on 21 May 1998, Samples A-1/V-9 and A-1/V-10 obtained 3 June 1998;
- DoE Criteria as stated in Draft Guidelines for the Assessment and Management of Contaminated Land in Queensland (May 1998); and
- Shading indicates concentration above DoE Criteria.



Queensland Government

Department of Environment and Heritage

160 Ann Street . Brisbane Queensland . PO Box 155 . BRISBANE ALBERT STREET QLD 4002

Telephone (07) 3227 6179 . Facimile (07) 3227 6536

RECEIPT

Receipt Number:	58133	Company Code:	QDOE
Receipt Date:	04.08.1998	Receipt Total:	900.00

PAYMENT FROM:
OTEK AUSTRALIA P/L

PAYMENT DETAILS	PAYMENT FOR	\$ AMOUNT
CHEQUE 5591	CONTAM. SITE REPORT	900.00

Received By: sch4p4(6) Personal information

EMR

Lot 2 Plan RP106025 Category NOTIFIABLE ACTIVITY Record Type BP ID 6602
Hist ID 149-4048

LGA TOOWOOMBA CITY COUNCIL Region SW AMA

Site Name SERVICE STATION -CALTEX SERVICE STATION Notified By DATACONV Notif Rec'd
Street 413-415 BRIDGE ST Entry Date 27/06/1998 Last Altered 10/08/1998
Date

Suburb TOOWOOMBA Post code 4350 Ext Ref

Owner CALTEX OIL (AUST) PTY LTD

Owner GPO BOX 820

Address BRISBANE

QLD Haz Cont

Post code 4350

Parcel C Area 1755 m² File 902227 Officer NIL
Status

ffsite Disposal Date

Notifiable Activities

LANDFILL
SERVICE STATIONS

Comments

Registered Site ID 6602

Date	User ID	Corr No	Officer Name	Finalised	How Finalised
------	---------	---------	--------------	-----------	---------------

10/08/1998 MILINOA

SITE DECOMMISSIONING REPORT 15/7/98 PREPARED BY OTEK FOR CALTEX AUSTRALIA PETROLEUM P/L REF. B98080. LOT 3 RP106025 ALSO REFERS. TCC NOTIFICATION ALSO REFERS TO USE OF LAND AS A QUARRY AND LANDFILL. ADDED LANDFILL TO NOTIFIABLE ACTIVITIES AND REGENERATED NOTIFICATION LETTERS.

For further information regarding this notice, please contact the Hazardous Waste and Contaminated Sites Section, Department of Environment and Heritage on telephone (07) 3227 6870.

Yours sincerely

John Gilmour
Executive Director, Division of Environment

RTI DL Release - EHP

Developer/2000 Forms Runtime for Windows 95 / NT - [Display] 

Action Edit Block Field Record Query Window Help 

EMR/CLR DISPLAY HISTORICAL SITE EMM5000

V1.0.7

Lot No	<input type="text" value="2"/>	Plan No	<input type="text" value="RP106025"/>	Category	<input type="text" value="PRO"/>	CSR Cont Site ID	<input type="text" value="149-4048"/>
Local Authority	<input type="text" value="TOOWOOMBA CITY"/>		Entry Date	<input type="text" value="06/12/1993"/>		MR Alter Date	<input type="text"/>
Site Name	<input type="text" value="SERVICE STATION - CALTEX SERVICE"/>		Prescribed Purpose	<input type="text" value="SERVICE STATION"/>			
Location Street	<input type="text" value="413-415 BRIDGE ST"/>		Contsite File	<input type="text" value="0"/>	Officer	<input type="text" value="NIL"/>	
Suburb	<input type="text" value="TOOWOOMBA"/>	Post code	<input type="text" value="4350"/>	Current Use	<input type="text" value="821"/>	Past Use	<input type="text" value="2231"/>
Owner Addr1	<input type="text" value="CALTEX OIL (AUST) PTY LTD"/>		Parcel Status	<input type="text" value="C"/>	Contaminant	<input type="text" value="UNK"/>	
Owner Addr2	<input type="text" value="GPO BOX 820"/>		Prev Lot No	<input type="text" value="2"/>	Prev Plan No	<input type="text" value="RP106025"/>	
Owner Addr3	<input type="text" value="BRISBANE"/>		Zoning	<input type="text" value="CO"/>	Area	<input type="text" value="1755"/>	
Owner Addr4	<input type="text" value="QLD"/>		UXO Region	<input type="text"/>	Cont Grd Water	<input type="text" value="U"/>	
Owner Addr5	<input type="text"/>	Post code	<input type="text" value="4001"/>				
Comments	<input type="text" value="NOTIFICATION BY COUNCIL 10.3.93-BKA LANDFILL SITE ESTAB.BETWEEN 1963 & 1978 EXISTING AS A SERVICE STATION SITE IN 1992. PREVIOUS USE WAS QUARRY LANDFILL - RUBBISH MATERIAL MAKING UP TOTAL LANDFILL BEING 2250 M2"/>						
Rec Status	☐	Del Date	<input type="text"/>	Del Reason	<input type="text"/>		

Count: *1

EMR/CLR		DISPLAY HISTORICAL SITE		EMM5000			
			V1.0.7				
Lot No	3	Plan No	RP106025	Category	PRO		
		CSR Cont Site ID	149-45472				
Local Authority	TOOWOOMBA CITY		Entry Date	26/04/1994	MR Alter Date		
Site Name	FUEL STORAGE TOOWOOMBA		Prescribed Purpose	FUEL STORAGE			
Location Street	413-415 BRIDGE STREET		Contsite File	0	Officer	NIL	
Suburb	TOOWOOMBA	Post code	4350	Current Use	3516	Past Use	3516
Owner Addr1	CALTEX OIL (AUST) PTY LTD		Parcel Status	C	Contaminant	UNK	
Owner Addr2	GPO BOX 820		Prev Lot No	3	Prev Plan No	RP106025	
Owner Addr3	BRISBANE		Zoning	CO	Area	1755	
Owner Addr4	QLD		UXO Region		Cont Grd Water	U	
Owner Addr5		Post code	4001				
Comments	NOTIFICATION BY COUNCIL-10.3.93-MDW						
Rec Status	☐	Del Date		Del Reason			
New Parcels Record List Shift F4 Query F7 Exit							
Count: *1							



QUEENSLAND GOVERNMENT

**Department of
Environment and Heritage**

ANNEXURE 1 - SITE MANAGEMENT PLAN

DATE PRINTED: 10/08/1998

LOT : 2 PLAN : SL11 FILE REF : 0

DATE OF EFFECT :

Further information relating to the conditions of use of this site are available by contacting the Department of Environment and Heritage.

RTI DL Release - EHP

EMR

Lot 3 Plan RP106025 Category NOTIFIABLE ACTIVITY Record Type BP ID 6875
Hist ID 149-45472

LGA TOOWOOMBA CITY COUNCIL Region SW AMA
Site Name FUEL STORAGE TOOWOOMBA Notified By DATACONV
Street 413-415 BRIDGE STREET Entry Date 27/06/1998 Notif Rec'd
Suburb TOOWOOMBA Post code 4350 Last Altered Date 11/08/1998
Owner CALTEX OIL (AUST) PTY LTD Ext Ref
Owner GPO BOX 820
Address BRISBANE
QLD Haz Cont

Post code 4350
Parcel C Area 1755 m² File 902227 Officer NIL
Status ff site Disposal Date

Notifiable Activities

LANDFILL

PETROLEUM PRODUCT OR OIL STORAGE

Comments

Registered Site ID 6875

Date	User ID	Corr No	Officer Name	Finalised	How Finalised
------	---------	---------	--------------	-----------	---------------

11/08/1998 MILINO A

LOT 2 AND 3 RP106025 NOTIFIED UNDER CLA1991 BY CALTEX AND TCC. COUNCIL NOTIFICATION STATES "A LANDFILL SITE ESTABLISHED BETWEEN 1963 AND 1978 EXISTING IN 1992 AS A SERVICE STATION - PREVIOUS USE WAS A QUARRY. (THE LANDFILL IS RUBBISH MATERIAL). MAKIG UP PART OF THE TOTAL LANDFILL BEING 2250M2. SITE DECOMMISSIONING REPORT 15/7/98 PREPARED BY OTEK FOR CALTEX AUSTRALIA PETROLEUM P/L REF.B98080. ADDED LANDFILL TO NOTIFIABLE ACTIVITIES AND REGENERATED NOTIFICATION LETTERS.

For further information regarding this notice, please contact the Hazardous Waste and Contaminated Sites Section, Department of Environment and Heritage on telephone (07) 3227 6870.

Yours sincerely

John Gilmour
Executive Director, Division of Environment

RTI DL Release - EHP

Description of the source of the suspected contamination or the prescribed purpose for which the land is or has been used (a short description of the land use or cause of contamination will be sufficient. A separate attachment can be made if space is insufficient).

AN ESTABLISHMENT EXISTING DURING 1992 SUPPORTING A FUEL DEPOT AND STORAGE AREA USE (LICENSED FLAMMABLE AND COMBUSTIBLE LIQUIDS)

Desirable and additional Information

Area of each parcel in square metres (this information is useful as a cross-check on the land description details):-

1755 M²

Current local authority zoning of the land:- COMMERCIAL B

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

If further information is required please contact:

The Clerk (Contaminated Land),
CHEM Unit,
A Division of the Bureau of Emergency Services
G.P.O. Box 1425
Brisbane, Qld 4001
Telephone (07) 227 4144
Facsimile (07) 227 4466

Notification of Contaminated Site

The following information should be supplied by people providing notification to the CHEM Unit of contaminated land or land used for a prescribed purpose under the *Contaminated Land Act 1991* and the *Contaminated Land Regulation 1991*.

Essential Information

Local Authority Area:- THE CITY OF TOOWOOMBA

Information provided by:-

Name: GORDON S ADAMS Contact Telephone No: (076) 316 740

Organisation: TOOWOOMBA CITY COUNCIL

Address: 153 HERRIES STREET

TOOWOOMBA Postcode 4350

Name by which the property is known locally:-

CALTEX WILSONTON STAR

Location:-

Street Address CNR BRIDGE & RICHMOND DRIVE

City
Town/Suburb TOOWOOMBA Postcode 4350

Lot-on-Plan Description of each parcel of land (*individual parcels of land which make up the property should be included. Please make a separate attachment if there is more than one parcel*):

LOT 2-3 RP106025 ✓ PP 3516

Land Titles Register Volume and Folio Number for each parcel (*see also above remarks in brackets concerning multiple land parcels*).

Name and Postal Address of Owner:-

Name CALTEX OIL (AUSTRALIA) PTY LTD

GPO BOX 820

Address BRISBANE QLD 4001

Postcode

Cont'd /2

Notification of Contaminated Site

149-0171
149-0172

The following information should be supplied by people providing notification to the CHEM Unit of contaminated land or land used for a prescribed purpose under the *Contaminated Land Act 1991* and the *Contaminated Land Regulation 1991*.

Essential Information

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(KNOWN IN 1992 AS THE WILSONTON STAR SERVICE STATION)

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City TOOWOOMBA Postcode 4350

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LOT 2 - 3 ON RP 106025

Land Titles Register Volume and Folio Number for each parcel (see also above remarks in brackets concerning multiple land parcels).

Name and Postal Address of Owner:-

NAME CALTEX OIL (AUSTRALIA) PTY LTD
G P O BOX 820
BRISBANE QLD 4001

Address _____
Postcode _____

Cont'd /2

Description of the source of the suspected contamination or the prescribed purpose for which the land is or has been used (a short description of the land use or cause of contamination will be sufficient. A separate attachment can be made if space is insufficient).

A LANDFILL SITE ESTABLISHED BETWEEN 1963 & 1978 EXISTING IN 1992 AS A
SERVICE STATION SITE - PREVIOUS USE WAS A QUARRY

(THE LANDFILL IS RUBBISH MATERIAL)

(MAKING UP PART OF THE TOTAL LANDFILL BEING 2250M²)

Desirable and additional Information:

Area of each parcel in square metres (this information is useful as a cross-check on the land description details):-

1755 M²

Current local authority zoning of the land:- COMMERCIAL B

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

If further information is required please contact:

The Clerk (Contaminated Land),
CHEM Unit,
A Division of the Bureau of Emergency Services
G.P.O. Box 1425
Brisbane, Qld 4001
Telephone (07) 227 4144
Facsimile (07) 227 4466



lot 2 on real cse, not on dummy.
(not lot 3). 1291

oo Lot 3 => Action Officer = ON
+ PROBABLE

Queensland Department of Environment and Heritage

160 Ann Street, Brisbane QLD 4000 • PO Box 155 • BRISBANE ALBERT STREET QLD 4002

Dear landowner/occupier,

Since European settlement industry, farming, building and recreation activities have affected our land, our streams and our underground water.

We know little about how much contamination has resulted nor how serious the problem is for us. Publicised incidents such as the dumping of toxic waste at Kingston, south of Brisbane, have increased community concerns. Increasingly, there is also rejuvenation of previous industrial sites for new uses such as housing or commerce. Past practices have sometimes resulted in contamination of the ground by potentially hazardous chemicals.

To help authorities, landowners and prospective land buyers a Register of sites classes 'contaminated' is being compiled. Common sense and the need to protect our health, our lifestyle and our environment suggest that these sites be examined and assessed before any rezoning, development, subdivision or changed use.

Those activities thought most likely to contaminate a site are listed on the back of this sheet. Any local authority knowing of land that has been used for one of these activities has been required under the provisions of the Contaminated Land Act to notify the Queensland Department of Environment and Heritage so that the site can be entered onto the Register. Your council has advised this Department that the land identified on the attached form has been, or is being, used for one of the listed activities.

As the land details are possibly incomplete or inaccurate, would you please take time to check them **before** the land is considered for listing on the register. Any initial queries you have should be made to your local authority who may have some historical information on the land use that is not known to you. Incorrect or omitted items should be noted on this form for return to the Queensland Department of Environment and Heritage by 27 August 1993.

If you feel the property should not be listed on the register, please state your reasons in the space provided below and return it so Department officers can make further checks.

If the form is not returned, we will assume the information is correct and the property will be added to the Contaminated Sites Register. Should the entry be proved incorrect in future, changes can still be made at anytime.

Please return this information to: Reply Paid 13
Registrar, Contaminated Land
Waste Management Branch
Department of Environment and Heritage
PO Box 155
BRISBANE ALBERT STREET QLD 4002

Lot number 2 + 3
Plan number AP 106025
Street address 413 - 415 BRIDGE ST.
TOOWOOMBA Q. 4350.
Owner's name CALTEX OIL (AUSTRALIA) P/L.

Reasons for property not to be listed on the Contaminated Sites Register

LOT 2 - DUPLICATED NOTICE. YOUR REF: LA 149 ID. 171
+ LA 149 ID. 278.

LOT 3 - DUPLICATED. YOUR REF. LA 149 ID. 172
+ LA 149 ID. 279.

s.73 irrelevant information

1291 WILSONTON LOCAL AUTH. BRIDGE ST & RICHMOND DR

4350

VOL 3802 FOL 227 VOL 3902 FOL 138

LOTS 2,3 RP 106025 149-004048, 149-046168

PC. 4350 Timber? YES!

NOTE :

SITES MARKED WITH ■■ HAVE ALREADY BEEN RECORDED AND CLASSIFIED BY DEPARTMENT OF ENVIRONMENT AND HERITAGE AND COMPANY NOTIFIED ACCORDINGLY.

SITES MARKED WITH (a) HAVE BEEN ASSESSED; AND SITE CLASSIFICATION REPORT CLASSIFYING THE SITE AS " FORMER " OR " RELEASED " HAS BEEN ISSUED BY DEPARTMENT OF ENVIRONMENT AND HERITAGE.

18-Dec-92

NOTIFICATION OF LAND USED FOR PRESCRIBED PURPOSE OLD CONTAMINATED LAND ACT 1991. QUEENSLAND DEPARTMENT OF ENVIRONMENT AND HERITAGE

OWNED PROPERTY

OWNER CALTEX OIL (AUSTRALIA) PTY LTD

CALTEX - FILE 901003

SEARCH TWO OWNER CALTEX %

THOSE NOT DONE

K/L 901003

CANT FIND THESE ON
REGISTERS

s.73 Irrelevant information

RTI DL Release - EHP

OTEK
AUSTRALIA PTY LTD

ATTN: TONI GROVES

Please find enclosed a full size photocopy of the Wilsonton Plan (much more legible), & a Stat. Dec signed by Julie Wharton as the "investigator."

Hope this will get the ball rolling on the Wilsonton Site Decommissioning Report,

With Compliments

28/1

Stephanie
Williams

Statutory Declaration - Investigator

In relation to Sections 118Q, 1182C, 171 and 172 of the Queensland Environmental Protection Act 1994

I, Julia Wharton

of OTEK Australia Pty Ltd
26/500 Seventeen Mile Rocks Rd
Seventeen Mile Rocks.

, in the State of Queensland,
do solemnly and sincerely
declare

that,

1. A true statement of my qualifications and experience relevant to the site investigation has been previously submitted to the DEH;
2. I have not knowingly included any false, misleading or incomplete information in the report;
3. I have not knowingly failed to reveal any relevant information or document to the administering authority, and
4. Certify that -
 - The report addresses the relevant matters for the investigation and is factually correct; and
 - The opinions expressed in it are honest and reasonably held.

And I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the Oaths Act 1867 - 1988.

Signature

Julia Wharton. Name

Taken and Declared before me, at Brisbane

This 27th day of July 1995

A Justice of the Peace

sch4p4(6) Personal information

Statutory Declaration - Preparer

In relation to Sections 118Q, 1182C, 171 and 172 of the Queensland Environmental Protection Act 1994

I, JULIA WHARTON
of OTEK Australia Pty Ltd
Seventeen Mile Rocks

, in the State of Queensland,
do solemnly and sincerely
declare

that,

1. A true statement of my qualifications and experience relevant to the site investigation has been previously submitted to the DEH;
2. I have not knowingly included any false, misleading or incomplete information in the report;
3. I have not knowingly failed to reveal any relevant information or document to the administering authority, and
4. Certify that –
 - The report addresses the relevant matters for the investigation and is factually correct; and
 - The opinions expressed in it are honest and reasonably held.

And I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the Oaths Act 1867 – 1988.

sch4p4(6) Personal information

Signature

Julia Wharton Name

Taken and Declared before me, at

BRISBANE

This

22nd

day of

July

19 98

A Justice of the Peace

Statutory Declaration - Investigator

In relation to Sections 118Q, 1182C, 171 and 172 of the Queensland Environmental Protection Act 1994

I, STEPHANIE WILLIAMS
of OTEK AUSTRALIA PTY LTD, in the State of Queensland,
SEVENTEEN MILE ROCKS, 4073 do solemnly and sincerely
declare

that,

1. A true statement of my qualifications and experience relevant to the site investigation has been previously submitted to the DEH;
2. I have not knowingly included any false, misleading or incomplete information in the report;
3. I have not knowingly failed to reveal any relevant information or document to the administering authority, and
4. Certify that –
 - The report addresses the relevant matters for the investigation and is factually correct; and
 - The opinions expressed in it are honest and reasonably held.

And I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the Oaths Act 1867 – 1988.

sch4p4(6) Personal information

Signature

STEPHANIE L. WILLIAMS Name

Taken and Declared before me, at BRISBANE

This 22nd day of JULY 1998

J. A Justice of the Peace

Site Decommissioning

Caltex Service Station
413 Bridge Street
WILSONTON QLD 4350

Prepared for:

Caltex Australia Petroleum Pty Ltd
MLC Centre
19-29 Martin Place
SYDNEY NSW 2000

Prepared by:

OTEK Australia Pty Ltd
1st Floor, Unit 26,
500 Seventeen Mile Rocks Road
SEVENTEEN MILE ROCKS QLD 4073
Tel: (07) 3279 5266, Fax: (07) 3279 5377

15th July 1998

sch4p4(6) Personal information

Stephanie L Williams BSc (AES)
Project Manager

Julia A Wharton BSc (Hons)
Queensland Operations Manager

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1. EXECUTIVE SUMMARY

Caltex Oil (Australia) Pty Limited currently own the property occupied by the Caltex Service Station facility located at 413 Bridge Street in Wilsonton, Queensland. The property is described as Lots 2 and 3 on Registered Plan 106025. Both lots are currently listed on the Queensland Department of Environment (DoE) Environmental Management Register (EMR).

OTEK Australia Pty Ltd (OTEK) was retained by Caltex Australia Petroleum Pty Ltd (Caltex) to decommission the facility and validate that any contamination in excess of DoE criteria was removed or remediated, thus allowing the site to be released from the DoE EMR.

Summary of Activities to Date

- A site history investigation;
- Site reconnaissance;
- Removal of all potential sources of contamination from the property;
- Validation of excavations and remediation and validation of excavated soils; and
- Backfilling of excavations with remediated soil and imported clean fill.

Pertinent Site History

The service station operated on the property for approximately 25 years. Prior to the service station the land was residential. No off-site sources of contamination were identified in the site history.

Contamination Information

Five USTs, four bowzers, one triple interceptor trap, associated pipe work and a waste oil AST were removed from the site.

Soil conditions at the site consisted of a silty clay to a depth of 3.5 metres Below Ground Surface (mBGS). Groundwater was not encountered during excavation procedures.

Approximately 517m³ of hydrocarbon impacted soil was excavated and remediated on site.

Analytical testing of excavation validation samples indicated that all impacted soil was removed from areas adjacent to the potential sources of contamination. Analytical testing of remediation validation soil samples indicated successful remediation of hydrocarbon impacted soil. The site was backfilled with validated remediated soil and clean imported fill. Based on data obtained during the site decommissioning, OTEK recommends that the property be released from the DoE EMR.

2. INTRODUCTION

Caltex Oil (Australia) Pty Limited are the registered owners of the property located at 413 Bridge Street in Wilsonton, Queensland. The property was formerly utilised as a Caltex Service Station.

The service station site consisted of five Underground Storage Tanks (USTs), four bowzers, a triple interceptor trap, two kerosene Aboveground Storage Tanks (ASTs), a waste oil AST and a workshop. The site is currently listed on the Queensland Department of Environment (DoE) Environmental Management Register (EMR).

The general location of the site is illustrated on the Regional Map (Figure 1). The site and the surrounding land use are illustrated on the Vicinity Map (Figure 2). The Site Map (Figure 3) identifies the layout of the site prior to and during decommissioning, including the locations of the USTs and other pertinent features.

2.1 PURPOSE

OTEK Australia Pty Ltd (OTEK) was retained by Caltex Australia Petroleum Pty Ltd (Caltex) to perform environmental supervision and sampling during the decommissioning of the facility in order to validate that soil remaining on-site contained contaminant concentrations below DoE Criteria. The purpose of the work was to release the property from the DoE EMR.

2.2 SCOPE

The site decommissioning activities conducted by OTEK included:

- A site history investigation to ascertain former potential on and off-site sources of contamination;
- A thorough site walkover completed to assess site conditions;
- Issuing of an AP Safe Work Permit for necessary Concrete Breaking carried out on site;
- Removal and disposal of all known potential sources of contamination from the property;
- Supervision of the excavation of all known hydrocarbon impacted soil adjacent to potential sources of contamination;
- Collection of soil samples from the walls and floors of the excavations for analytical testing to validate the removal of soil impacted above regulatory guidelines;
- On-site remediation of hydrocarbon impacted soil utilising enhanced biodegradation and volatilisation techniques;
- Collection of soil samples from remediating soil to validate the completion of the remediation process;

- Backfilling of the excavation pits with remediated soil and imported clean fill to return the site to grade; and
- Documentation of all activities for preparation of the site validation report.

3. BACKGROUND INFORMATION

OTEK obtained background information to evaluate site conditions and potential effects that site operations may have had on the environment. This information is detailed in the following sections.

3.1 PHYSIOGRAPHY

The property is described as Lot 2 and 3 on Registered Plan 106025 and is located within the County of Aubigny in the Parish of Drayton, Queensland, at Australian Map Grid coordinates 393623 metres East and 6952713 metres North (BLINMAP, Department of Natural Resources, 1:2500, Standard Map Number 9242-11421). Refer to Figure 3 for a Lot on Plan overlay.

The site and surrounding land is relatively flat. The property is bound by Bridge Street to the south, Richmond Drive to the west and the Wilsonton Shopping Centre to the north and east. The general land usage in the vicinity of the site is residential and commercial (refer to Figure 2).

3.2 REGIONAL GEOLOGY AND HYDROGEOLOGY

According to published geological maps of the area, the property is located on Cainozoic aged tertiary volcanics composed mainly of basalt. These basalts are of the Tertiary Period (Queensland Geology, Mines Department State Series Map 2, 1:2 500 000). The site is situated approximately 620 metres above sea level.

Based on the Groundwater Resources of Queensland, Mines Department Series: Map 4 (1:2,500,000), groundwater in the region typically has a high bore yield (>15 litres/second) and low salinity (Total Dissolved Ions: <500 mg/L). This water is suitable for most purposes.

4. SITE HISTORY

The site history investigation was comprised of a local council records search, a review of historical property titles and aerial photograph search. This information is described in the sections below.

4.1 COUNCIL RECORDS SEARCH

The Toowoomba City Council was contacted regarding the Flammable and Combustible Liquid License records for the site and to determine if any other environmentally relevant activities had been performed at the site. The final product license capacity status listed on 22nd August 1995 was consistent with the capacity of the systems which were removed from the site with the exception of the abandoned UST (UST #2) which was not listed. This UST appears to have been abandoned before the license was issued in 1995. Two 450 litre kerosene Aboveground Storage Tanks (ASTs) were also listed on the license but not located on site. A Motor Vehicle Workshop license was issued for the site as well.

No historical records were available for the site as 1995 was the first occasion on which a Flammable and Combustible Liquids License was issued for the property.

4.2 HISTORICAL PROPERTY TITLE REVIEW

A review of the historical property titles indicates that the service station facility was built around 1970 when the site was first owned by Caltex Oil (Australia) Pty Limited. Prior to 1970 the property was privately owned. The property owners are listed in Table 1. The historical property titles and plans for the site since 1911 are included as Appendix A.

4.3 AERIAL PHOTOGRAPH SEARCH

An aerial photograph search was performed to ascertain historical land use at and around the project site. The following table summarises the photographs viewed during the search. No aerial photographs were available prior to 1969.

YEAR	TITLE OF PHOTOGRAPHY & SCALE	RUN NUMBER	PHOTOGRAPH NUMBER
1993	Toowoomba (1:25,000)	2	55
1988	Toowoomba (1:25,000)	2	51
1984	Toowoomba (1:25,000)	2	100
1975	Toowoomba (1:32,000)	2	46
1969	Ipswich (1:100,000)	5	63

In the photograph from 1969 the site has two residential properties located on it. Richmond Drive has just been constructed as part of a new residential subdivision. Bridge Street is present as a two lane road. Areas to the north, west and east are residential with the area

immediately across Bridge Street to the south being vacant with the airport operational further south.

The photograph viewed for 1975 showed the service station present in the same layout observed prior to decommissioning. Bridge Street is now a two carriageway highway and Richmond Drive is as seen today. The block of land extending from the north to the east is vacant. Land to the west and south (Bridge Street frontage – adjacent to airport) is residential.

In 1984, 1988 and 1993 the site is as it was prior to decommissioning. Surrounding landuse and infrastructure is unchanged with the exception of the construction of the Wilsonton Shopping Centre and Hotel on the adjacent property extending from the north to the east.

4.4 ANECDOTAL INFORMATION

The original Caltex Service Station Layout plans (1972) for the Wilsonton service station are included as Figure 5. Alan Burton, a Caltex Business Manager for the Toowoomba region, was contacted by OTEK to confirm the type of hoist used in the service bays. To the best of his knowledge, an inground hoist was never installed at the Wilsonton Service Station.

5. POTENTIAL RECEPTORS

Potential receptors of hydrocarbon contamination in the area are the surrounding retail and residential properties. Underground utilities located on and around the site are also considered potential receptors. These include telephone cables and the water main in the footpaths adjacent to the site. Surface run off from the site is channelled into the kerb-side storm water drains in the surrounding streets.

6. POTENTIAL ON-SITE AND OFF-SITE SOURCES

Hydrocarbon impact may have occurred as a result of leaks or spills from a number of features identified at the site. These include:

- five underground storage tanks with direct tank fill points;
- four bowsers and associated suction and delivery piping;
- one triple interceptor trap;
- two kerosene ASTs; and
- a waste oil AST.

No potential off-site sources of contamination were noted in the vicinity of the site.

7. FIELD ACTIVITIES

The following sections provide details of the various field activities performed by OTEK during the site validation. Site validation activities at the site were conducted between 19th May and 15th June, 1998. Photographs of the validation activities have been included in Appendix B, Photograph Log.

7.1 SITE RECONNAISSANCE

A visual assessment of the facility was undertaken prior to commencement of decommissioning to ascertain if any visual evidence of environmental impact exists on site. The potential on- and off-site sources of contamination were noted along with the condition of the surface of the site and any areas of visual impact such as surface staining were noted. The surrounding land usage was also documented.

7.2 HYDROCARBON SOURCE REMOVAL

All known potential sources of hydrocarbon contamination were removed from the site. These included:-

- a triple interceptor trap;
- waste oil AST; and
- UST system including suction, delivery and vent piping (bowzers had been removed prior to OTEK's appointment to decommission the site).

The removal of the USTs and triple interceptor trap system was completed by an OTEK appointed sub-contractor on 19th, 20th and 21st May, 1998. The concrete pavement above the USTs was initially broken and subsequently removed off-site. A Caltex Safe Work permit was issued on the 19th May 1998, prior to the concrete breaking, by a Caltex appointed Responsible Officer.

Overburden soils were then removed to expose the USTs, with soils excavated from around the sides of the USTs and interceptor to free them from the excavations. The interceptor was located in an annex attached to the main building. This annex was demolished to enable access to the interceptor. All steel piping connected to the USTs (including suction, delivery and vent piping) was removed after draining residual product back into the tanks and were disposed of as scrap metal. The USTs were transported from the site on Dangerous Goods licensed vehicles, degassed and scrapped in accordance with AS1940 (1993) and AIPCP22.

7.3 SOIL EXCAVATION

Hydrocarbon impacted soil was excavated from around the UST and interceptor systems. A total of approximately 519m³ of soil was excavated from the UST cavity, from beneath the bowser areas and from around the interceptor. Of the 519m³, approximately 480m³ of soil excavated from around the UST cavity appeared to have low to moderate hydrocarbon impact and was designated as Area A-1. Approximately 24m³ excavated from around the interceptor and waste oil AST appeared to have low hydrocarbon impact and was placed at the northern end of Area A-1. The soil excavated from around the southern bowser island (6.0m³) was designated as Area A-2 and appeared to have moderate hydrocarbon impact. Area A-3 (7.0m³) consisted of soil excavated from around the northern-most bowser island and appeared to have low hydrocarbon impact. Area A-4 (2.0m³) also consisted of soil excavated from the northern bowser island and appeared to have minimal hydrocarbon impact. The soil was spread on site for remediation (refer to Section 7.5 and Figure 3).

7.4 EXCAVATION VALIDATION SAMPLING

Following removal of the potential sources of hydrocarbon impact and excavation of contaminated soil, samples were obtained to assess concentrations of hydrocarbons in the soil remaining at the boundaries of the excavations. Samples were obtained from the walls and floors of the excavation pits as per OTEK Protocols, dated September 1993 (DoE approved). The excavator bucket was utilised to collect samples from excavations greater than 1.5 metres deep, at locations specified by the OTEK field scientist. Soil samples were obtained from shallow excavations utilising clean hand tools.

The soil samples obtained from the excavations were labelled S-1 to S-29. Samples S-22 to S-25, discrete samples obtained from each wall of the interceptor excavation, were composited in the laboratory for analysis and labelled COMP-1. The excavation validation sample locations are shown on Figure 4.

7.5 SOIL REMEDIATION

Soil contaminated with hydrocarbons was excavated and spread on-site for remediation. A total of 519m³ of impacted soil excavated from the UST, interceptor and bowser areas was spread on-site (refer to Section 7.3 and Figure 3). The stockpiled soil had fertiliser spread through it and was rotated during the remediation process. This aeration process was conducted to increase volatilisation of hydrocarbons from the soil and to elevate the levels of oxygen in the soil which assists in stimulating the growth of hydrocarbon degrading microbes.

7.6 REMEDIATION VALIDATION SAMPLING

The stockpiled soils were field screened for Volatile Organic Compounds (VOCs) using a PID and olfactory sensing during the remediation activities to evaluate the progress of hydrocarbon degradation. When field screening indicated that hydrocarbon levels had decreased sufficiently to warrant validation sampling, the stockpile designated as Area A-1 was nominally divided into areas of 50m³ and validation Samples A-1/V-1 to A-1/V-10 were taken. Samples A-1/V-9 and A-1/V-10 were obtained from soil excavated from the interceptor area.

The three stockpiles designated as Areas A-2, A-3 and A-4 had discrete representative samples taken from the undisturbed bulk of the soil at a random location in each remediation area. The discrete validation sample taken from each stockpile area was designated as V-1. For example, Sample A-2/V-1 was the first soil validation sample obtained from stockpile Area A-2. The location of the remediation validation samples are shown on Figure 4.

7.7 BACKFILLING AND COMPACTION

Following successful remediation of hydrocarbon impacted soil on site, the excavations were backfilled using remediated soil and imported clean fill to replace the volume of the USTs, interceptor and surface concrete. The clean fill was unspecified scalp material sourced from the CSR Toowoomba Quarry.

8. ANALYTICAL LABORATORY TESTING

The following sections describe the testing methodologies and quality assurance/quality control (QA/QC) procedures used for analysis of the soil samples obtained during the field activities.

8.1 ANALYTICAL TESTING

Analytical laboratory testing was performed on a total of forty-two soil samples, as summarised below:

- Twenty-seven soil samples were obtained as excavation validation samples;
- Thirteen soil samples were collected from stockpiled soils as remediation validation samples of the excavated soil;
- Two quality control samples (QS-1 and QS-2) were collected during the project, as detailed in the sections below.

All samples were collected in the field by OTEK personnel. All samples collected were sealed in glass jars, labelled, placed on ice and transferred to the analytical laboratory using proper sample preservation procedures and chain-of-custody documentation. All

analytical laboratory testing was performed by Amdel Environmental Laboratories (Amdel) of Milton, Queensland. Amdel's laboratory methods for the constituents analysed are certified by the National Association of Testing Authorities (NATA). Soil samples were analysed for Benzene, Toluene, Ethyl-benzene and Xylenes (BTEX), Total Petroleum Hydrocarbons (TPH) and lead. Selected soil samples from the interceptor trap area were also analysed for heavy metals (arsenic, cadmium, chromium, copper, nickel, lead and zinc) and Polynuclear Aromatic Hydrocarbons (PAH).

The results of the analytical testing of all samples are summarised in Tables 2 and 3. The analytical reports as presented by Amdel appear within Appendix C.

8.2 QUALITY ASSURANCE/QUALITY CONTROL

As part of OTEK's ongoing Quality Control Program, two duplicate soil samples, QS-1 and QS-2 were obtained. Sample QS-1 is a duplicate of S-21 and QS-2 is a duplicate of A-1/Y-1. The Relative Percent Difference (RPD) between the samples was calculated.

The analytical testing laboratories used by OTEK are required to adhere to accepted analytical methodologies and conduct regular quality control checks on their analyses.

OTEK requires these laboratories to regularly provide results of reagent blanks, control standards, repeat duplicates and recoveries. These procedures and results are documented in the laboratory reports in Appendix C.

9. EVALUATION OF DATA

Information pertaining to physical sub-surface conditions, the general condition of the USTs, and the contaminant impact at the site was collected during the decommissioning activities. This information is evaluated in the following sections.

9.1 SITE RECONNAISSANCE

On the 19th May 1998, an OTEK field scientist conducted a thorough site walk over. The following site conditions were noted:-

- The entire surface of the site was concreted with the exception of garden beds on the perimeters of the property. The concrete on site was in good condition;
- The bowsters had been removed and concreted over with the exception of the south-eastern most bowster footing which had a sand covered surface;

- No indication of the former location of two kerosene ASTs listed in the Flammable and Combustible Liquids license could be found. However, they would have been situated on concrete and are not considered a source of potential contamination to the subsurface;
- A waste oil AST was located on the northern wall of the service bay, hydrocarbon surface staining was noted on the concrete underneath it, however the concrete was in good condition and is not considered a source of potential contamination to the subsurface;
- A sand abandoned UST was found with the four USTs formerly in use before decommissioning commenced;
- The four USTs were empty; and
- An aboveground hoist had been removed from the service bay, which had a concrete surface in good condition. There was no evidence of an inground hydraulic hoist.

OTEK subcontractors removing the UST system indicated that USTs #1, #3 and #4 were in good condition with no holes. UST #2 was sand abandoned, in poor condition and had several holes. UST #5 was a fibreglass lined tank with a leak detection system and in good condition. No other visual evidence of contamination was observed during reconnaissance of the facility.

9.2 SOIL AND GROUNDWATER CONDITIONS

The near surface stratigraphy was evaluated via an inspection of the excavations. Soil conditions at the site consisted of a red and orange mottled silty clay to 3.5 metres Below Ground Surface (mBGS), which was the extent of the investigation. Groundwater was not encountered during excavation procedures.

9.3 SITE IMPACT

During excavation procedures, hydrocarbon impacted soil was encountered around the USTs and bowsers.

9.3.1 Excavation Validation

Analytical testing of excavation validation samples from around the bowsers, UST cavity and interceptor areas indicated concentrations of BTEX, TPH and lead below the laboratory limits of detection or DoE Criteria (refer to Table 2).

Analytical testing of samples obtained from the base and walls of the interceptor excavation indicated concentrations of heavy metals and PAH below laboratory detection limits or below DoE criteria. Concentrations of chromium above DoE Environmental Investigation

Guidelines were detected in all samples analysed for heavy metals (refer to Table 3). These concentrations appear to be naturally occurring as high concentrations of chromium are commonly associated with basaltic soils such as those found in the Toowoomba region (Pendias, 1989). Furthermore, these concentrations are below DoE Human Health Based Guidelines (refer to Table 3).

9.3.2 Remediation Validation

Analytical testing of remediation validation samples obtained from soil excavated from the UST system area indicated concentrations of BTEX, TPH and lead below DoE criteria or below laboratory detection limits (refer to Table 2).

Analytical testing of samples obtained from soil excavated from the interceptor area indicated concentrations of PAH and heavy metals below DoE criteria or below laboratory detection limits with the exception of chromium. Chromium concentrations were above DoE Environmental Investigation Guidelines, however, these levels can be contributed to those found naturally occurring in basaltic soils rather than to hydrocarbon contamination (Pendias, 1989).

9.4 QUALITY ASSURANCE/QUALITY CONTROL

Analytical testing of the quality assurance samples (QS-1 and QS-2) and their duplicates indicated that the RPD for BTEX, TPH and lead is acceptable for QA/QC purposes as all samples had levels below laboratory detection limits (refer to Table 2).

10. CONCLUSIONS

Based on the data obtained during the site decommissioning and remediation activities the following conclusions can be derived:

- The site has been used as a service station for approximately 25 years and was residential prior to this;
- Five USTs, one triple interceptor trap, a waste oil AST and associated piping were removed from the site;
- Soil conditions at the site consisted of a silty clay to a depth of 3.5 mBGS. Groundwater was not encountered;
- Approximately 519m³ of hydrocarbon impacted soil was excavated from around the USTs and the interceptor and spread over the site for remediation;
- Analytical testing of excavation validation samples indicated that all known impacted soils in excess of relevant DoE Criteria were removed from areas adjacent to the known potential sources of contamination;

- Analytical testing of remediation validation samples indicated that hydrocarbon concentrations within the stockpiles were reduced to levels below DoE Criteria;
- Chromium concentrations above DoE Environmental Investigation Guidelines were encountered on site, however these levels can be contributed to those found naturally occurring in basaltic soils rather than to hydrocarbon contamination; and
- The validated remediated soil was backfilled and compacted into the excavations and imported clean fill was used to replace the volume of the removed USTs.

Based on the data obtained during the site decommissioning activities detailed herein, all known sources of contamination on this property were removed and hydrocarbon impacted soils were excavated and remediated to levels acceptable to the DoE. OTEK recommends that the property be released from the DoE EMR.

11. LIMITATIONS

The conclusions presented in this report are relevant to the condition of the site and the state of legislation currently enacted as at the date of this report. We do not make any representation or warranty that conclusions in this report will be applicable in the future as there may be changes in the condition of the site, applicable legislation or other factors that would affect the conclusions contained in this report.

OTEK has used a degree of skill and care ordinarily exercised by reputable members of our profession practising in the same or similar locality. Conclusions are based on representative samples or locations at the site, the intensity of those samples being in accordance with the usual levels of testing carried out for this type of investigation. Due to the inherent variability in natural soils we cannot warrant that the whole overall condition of the site is identical or substantially similar to the representative samples.

This report has been prepared for Caltex Australia Petroleum Pty Ltd for the specific purpose to which it refers. No responsibility is accepted to any third party and neither the whole of the report or any part or reference thereto may be published in any document, statement or circular nor in any communication with third parties without our prior written approval of the form and context in which it will appear.

This report and the information contained in it is the intellectual property of OTEK. Caltex Australia Petroleum Pty Ltd and the Queensland Department of Environment are granted an exclusive licence for use of the report for the purpose described in the report.

12. REFERENCES

Alina Kabata-Pendias, Henryk Pendias (1989), *Trace Elements in Soils and Plants*, CRC Press, London.

RTI DL Release - EHP

**TABLE 1
HISTORY OF PROPERTY OWNERS
WILSONTON, QUEENSLAND
LOT 2 & 3 ON RP 106025**

TITLE HISTORY FOR PORTION 429

LOT ON PLAN	PROPERTY OWNER	DATE	SITE USAGE
Resubdivision 1A of Subdivision 1 of Portion 429	sch4p4(6) Personal information	18/10/1911	Unknown
		24/02/1930	Unknown
		15/10/1930	Unknown
		10/02/1932	Unknown
		28/05/1935	Unknown
		21/10/1935	Unknown

TITLE HISTORY FOR RESUBDIVISION 2 OF SUBDIVISION 7 – PORTION 429

*Resubdivision 2 of Subdivision 7 of Resubdivision 1A of Subdivision 1 of Portion 429 on RP 106025	Caltex Oil (Australia) Pty Limited	02/06/1966	Unknown
		04/07/1966	Unknown
		04/08/1970	Caltex Service Station
**Lot 2 of Portion 429 on RP 106025	Caltex Oil (Australia) Pty Limited	12/02/1987	Caltex Service Station

TITLE HISTORY FOR RESUBDIVISION 3 OF SUBDIVISION 8 – PORTION 429

*Resubdivision 3 of Subdivision 8 of Resubdivision 1A of Subdivision 1 of Portion 429 on RP 106025	Caltex Oil (Australia) Pty Limited	27/08/1965	Unknown
		18/11/1968	Unknown
		18/08/1970	Caltex Service Station
***Lot 3 of Portion 429 on RP 106025	Caltex Oil (Australia) Pty Limited	06/02/1987	Caltex Service Station

Notes:

- *Resubdivision 1A of Subdivision 1 of Portion 429 was subdivided into Subdivisions 1 to 10 on the 2nd March 1961.
- **Resubdivision 2 of Subdivision 7 of Resubdivision 1A of Subdivision 1 of Portion 429 on RP 106025 became Lot 2 of Portion 429 on RP 106025 on the 12th February 1987.
- ***Resubdivision 3 of Subdivision 8 of resubdivision 1A of Subdivision 1 of Portion 429 on RP 106025 became Lot 3 of Portion 429 on RP 106025 on the 6th February 1987.
- Data derived from a review of property titles supplied by the Department of Lands. The actual titles are contained within Appendix A. Site usage determined from aerial photographs, property titles and anecdotal information.

TABLE 2
ANALYTICAL SUMMARY - SOIL SAMPLES (BTEX, TPH & LEAD)
CALTEX SERVICE STATION, 413 BRIDGE STREET
WILSONTON, QUEENSLAND

Sample ID	BTEX					TPH					Lead
	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)	Pb (mg/kg)
S-1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-6	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-7	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-8	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-9	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-10	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-13	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-14	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-15	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-16	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-17	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-18	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-19	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-20	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-21	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
QS-1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DoE Criteria	1	-	-	-	7	100	100	1000	1000	1000	300
Quantitation Limit	0.1	0.1	0.1	0.3	-	20	20	20	20	-	10
Laboratory Methodology	SERV 1					SERV-1					E5980

Notes:

- Sample ID: S-# denotes a discrete soil sample and QS-# denotes a quality assurance duplicate;
- QS-1 is a duplicate of S-21;
- Samples S-1 to S-21 and QS-1 were obtained on 21 May;
- "nd" denotes concentrations not detected; and
- DoE Criteria as stated in Guidelines for the Assessment of Contaminated Land in Queensland (CHEM Unit, January 1992).

TABLE 2 - CONTINUED
ANALYTICAL SUMMARY - SOIL SAMPLES (BTEX, TPH & LEAD)
CALTEX SERVICE STATION, 413 BRIDGE STREET
WILSONTON, QUEENSLAND

Sample ID	BTEX					TPH					Lead
	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)	Pb (mg/kg)
S-23	nd	nd	nd	nd	nd	-	-	-	-	-	-
S-26	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	38
S-27	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	47
S-28	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
S-29	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
COMP-1	-	-	-	-	-	nd	nd	nd	nd	nd	nd
A-1/V-1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-6	nd	nd	nd	nd	nd	nd	nd	40	nd	40	nd
A-1/V-7	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-8	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
A-1/V-9	nd	nd	nd	nd	nd	nd	10	36	nd	46	-
A-1/V-10	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	-
A-2/V-1	nd	nd	nd	nd	nd	nd	nd	80	nd	80	14
A-3/V-1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	34
A-4/V-1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	61
QS-2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
DoE Criteria	1	-	-	-	7	100	100	1000	1000	1000	300
Quantitation Limit	0.1	0.1	0.1	0.3	-	20	20	20	20	-	10
Laboratory Methodology	SERV-1					SERV-1					E5980

Notes:

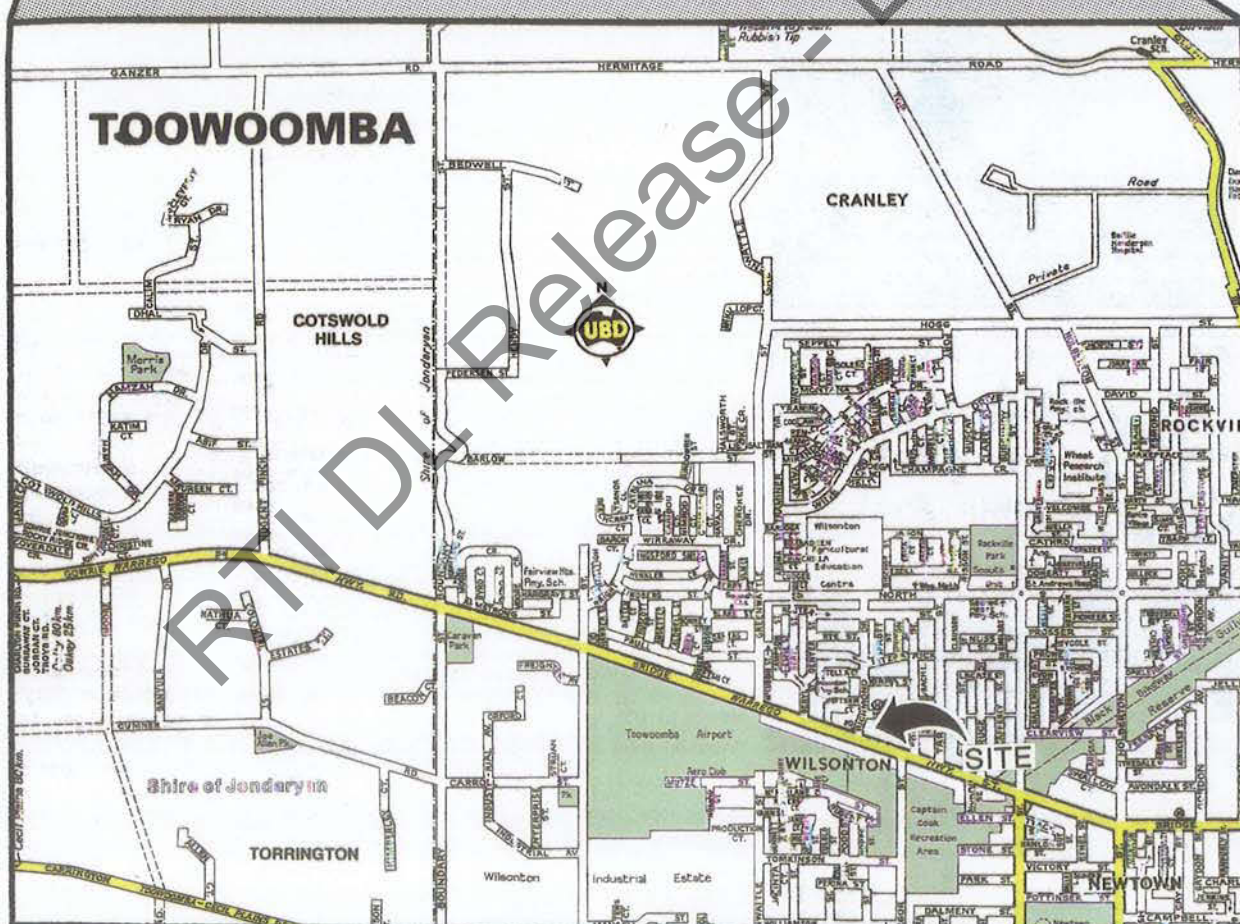
- Sample ID: S-# denotes a discrete soil sample, COMP-# denotes a composite sample taken of discrete soil samples S-22 to S-25, A-#/V-# denotes a discrete sample taken from an area of stockpiled soil and QS-# denotes a quality assurance duplicate;
- QS-2 is a duplicate of A-1/V-1;
- Samples S-23 to S-29 and COMP-1 were obtained on 21 May and Samples A-1/V-1 to A-1/V-10, A-2/V-1, A-3/V-1, A-4/V-1 and QS-2 were taken on the 3 June 1998;
- "nd" denotes concentrations not detected;
- "- " denotes analysis not requested; and
- DoE Criteria as stated in Guidelines for the Assessment of Contaminated Land in Queensland (CHEM Unit, January 1992).

TABLE 3
ANALYTICAL SUMMARY - SOIL SAMPLES (METALS & PAH)
CALTEX SERVICE STATION, 413 BRIDGE STREET
WILSONTON, QUEENSLAND

Sample ID	Arsenic As (mg/kg)	Cadmium Cd (mg/kg)	Chromium Cr (mg/kg)	Copper Cu (mg/kg)	Nickel Ni (mg/kg)	Zinc Zn (mg/kg)	Lead Pb (mg/kg)	Total PAH (mg/kg)
S-21	nd	nd	181	26	11	19	nd	nd
COMP-1	nd	nd	384	27	28	21	nd	nd
A-1/V-9	nd	nd	135	24	25	65	6	nd
A-1/V-10	nd	nd	121	29	14	50	5	nd
DoE Environmental Criteria	20	3	50	60	60	200	300	-
DoE Human Health Based Criteria	100	20	120,000	1000	600	7000	300	20
Practical Quantitation Limit	5	1	5	5	5	5	5	0.5
Laboratory Methodology	E5910							E1110

Notes:

- S-# denotes a discrete surface sample, COMP-# denotes a laboratory composite sample taken from discrete samples S-22 to S-25, A-#/V-# denotes a discrete validation sample taken from an area of stockpiled soil;
- "nd" denotes not detected above the practical quantitation limit;
- Samples S-21 and S-22 to S-25 obtained on 21 May 1998, Samples A-1/V-9 and A-1/V-10 obtained 3 June 1998;
- DoE Criteria as stated in Draft Guidelines for the Assessment and Management of Contaminated Land in Queensland (May 1998); and
- Shading indicates concentration above DoE Criteria.



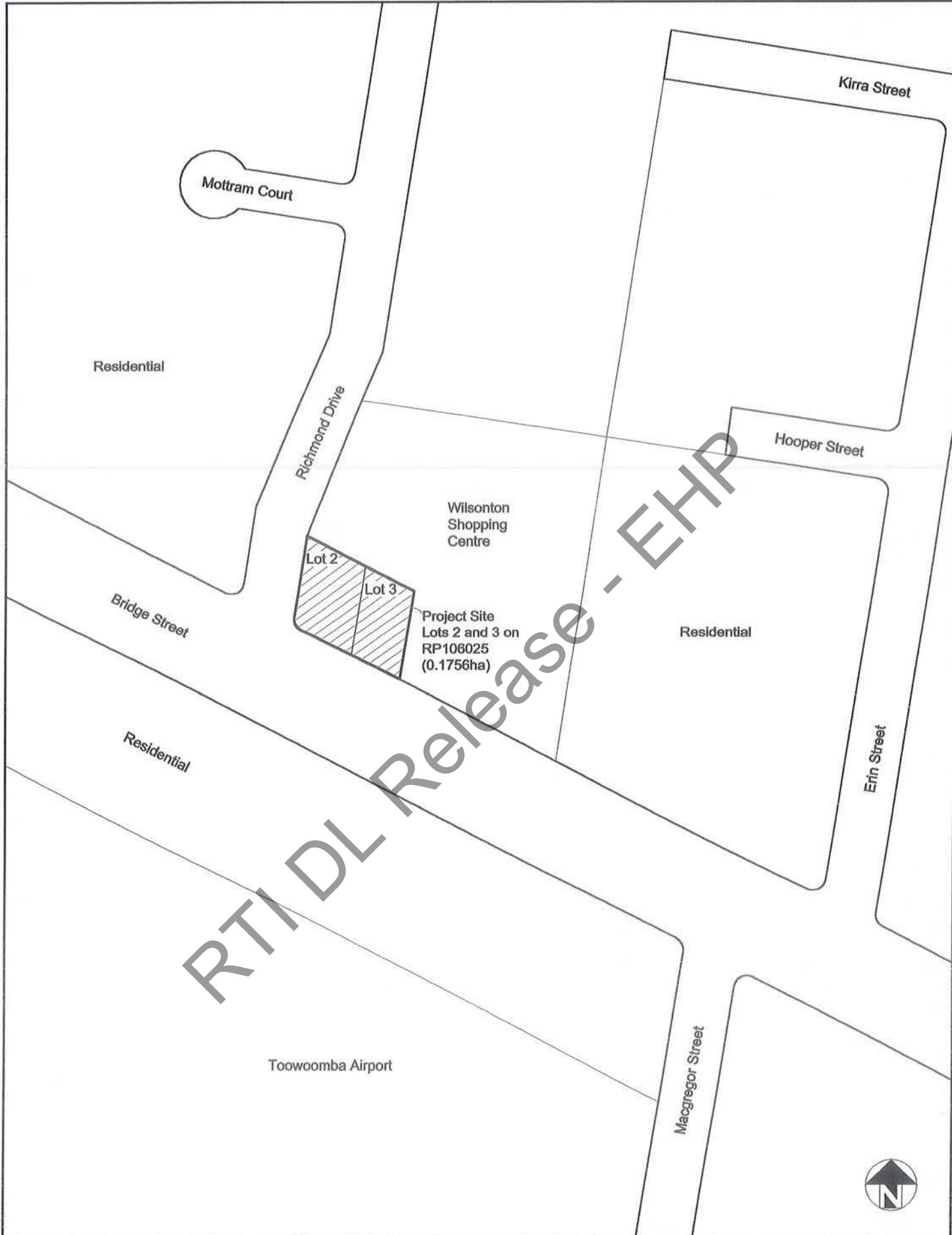
Ref: UBD BRISBANE STREET DIRECTORY
Including Gold and Sunshine Coasts
40th Edition, 1996
Map 353 - Brisbane and Surrounding Districts
Scale: 1:1 200 000

UBD QUEENSLAND STATE STREET
DIRECTORY
Cities and Towns
13th Edition, 1997
Toowoomba, Map 1, Page 294
RTI 13-19 Approximate Scale: 1:34 500



Collection 1

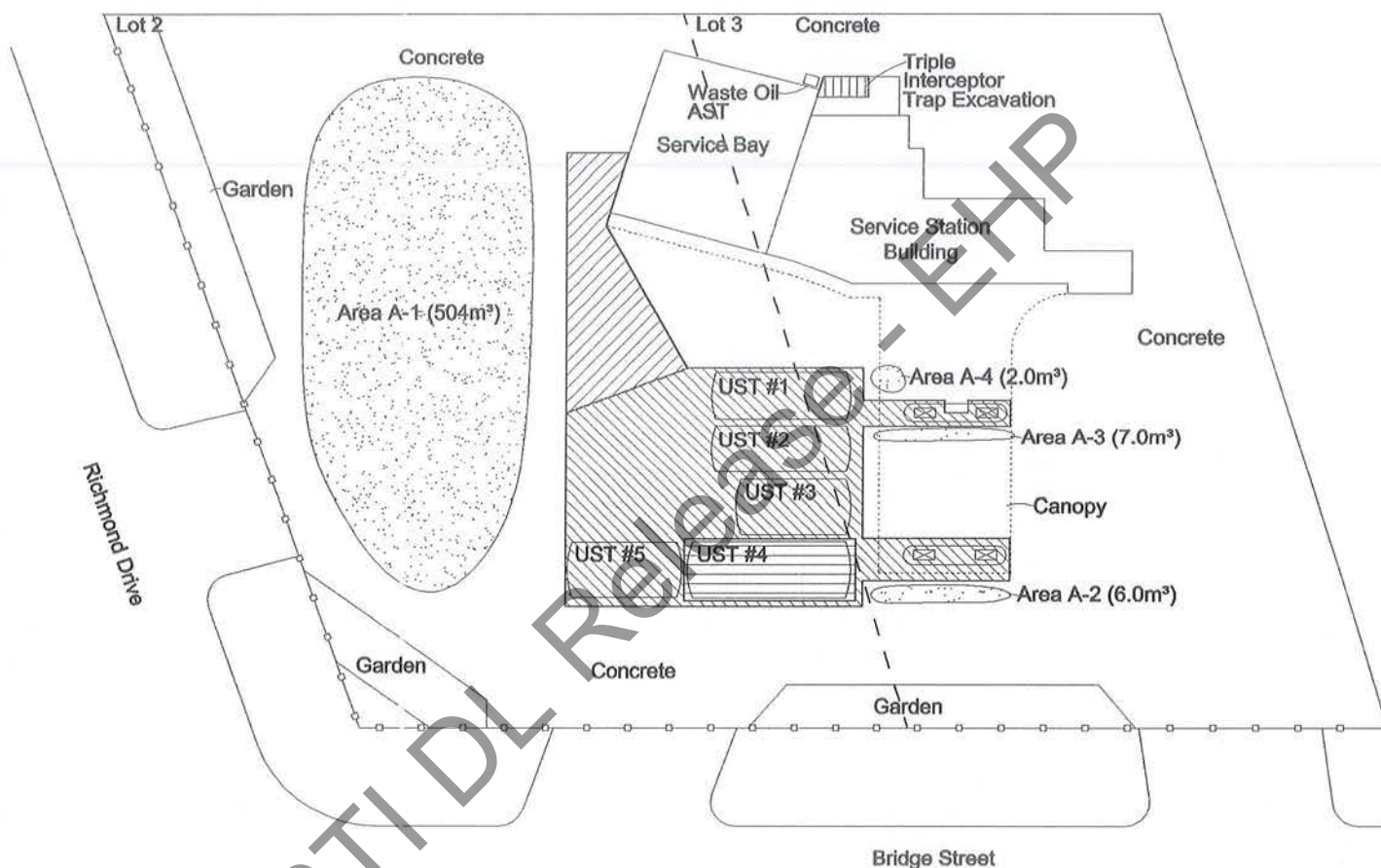
		REPORT REFERENCE	
SCALE 1:1 200 000/1:34 500		Site Decommissioning Australian Petroleum Pty Ltd Wilsonton, Queensland	
DRAWN AS	DATE 22/04/98	CHECKED Personal information	JOB # B98080
TITLE REGIONAL MAP		FIG. # 1	



RTI DL Release - EHP

RTI 13-019	Collection 1	 <small>AUSTRALIA PTY LTD</small> APPROXIMATE SCALE 1:2000 DRAWN DATE GSD 18/5/99 <small>Serial 494 (6)</small> TITLE	REPORT REFERENCE SITE DECOMMISSIONING Australian Petroleum Pty Ltd Wilsonton, QLD CHECKED DATE <small>18/5/99</small> JOB # B98080 FIG. # 2

VICINITY MAP



Legend

- Bowser Location
- Excavation 0.7m depth
- Excavation 2.0m depth
- Excavation 3.0m depth
- Excavation 3.5m depth
- Fence
- Stockpiled Soil

UST Details

UST #	Capacity	Contents
1	22,000L	Unleaded
2	22,000L	Abandoned
3	15,000L	Leaded
4	45,000L	Distillate
5	15,000L	Distillate

OTek
AUSTRALIA PTY LTD

APPROXIMATE SCALE
1:300

DRAWN DATE
GSD 19/06/06

REPORT REFERENCE

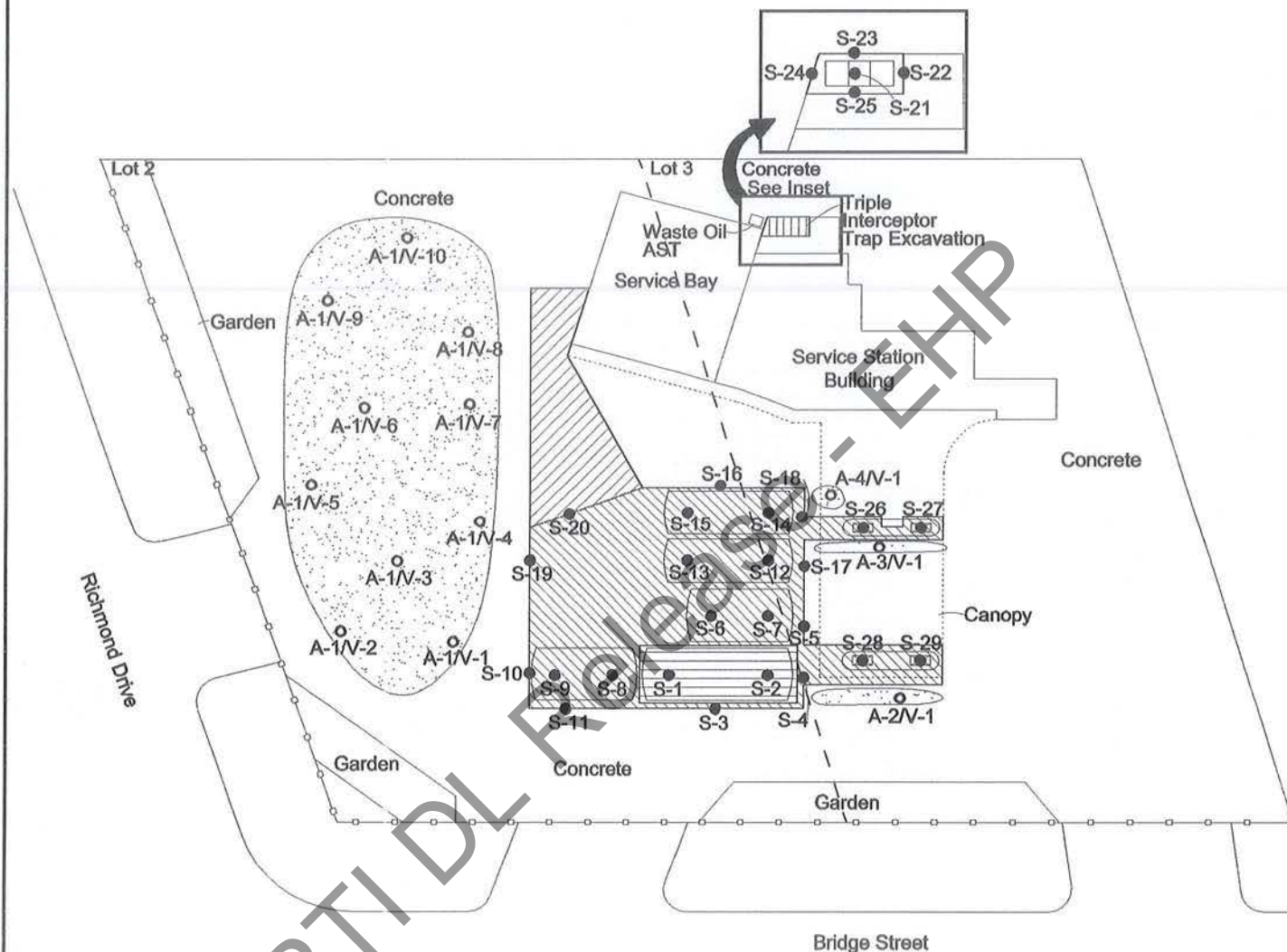
SITE DECOMMISSIONING

**Australian Petroleum Pty Ltd
Wilson, QLD**

CHECKED DATE
JOB #
B98080

SITE MAP Page 110

FIG. #
3



Legend

- S-# Soil Validation Sample Location
- A-#/V-# Soil Remediation Sample Location
- Stockpiled Soil

OTek
AUSTRALIA PTY LTD

APPROXIMATE SCALE

1:300

DRAWN DATE

GSD 14/06/06

TITLE

REPORT REFERENCE

SITE DECOMMISSIONING

Australian Petroleum Pty Ltd
Wilsonton, QLD

CHECKED DATE

14/06/06

Personal information

JOB #

B98080

FIG. #

SOIL SAMPLE LOCATIONS

4

[illegible]

APPENDIX A
CURRENT AND HISTORICAL PROPERTY TITLES & PLANS



CURRENT TITLE SEARCH

DEPT. OF NATURAL RESOURCES, QUEENSLAND

Request No: 537148

Search Date: 30/04/1998 2:02 pm

Title Reference: 13902138

Date Created: 01/07/1966

Previous Title: 11185036

REGISTERED OWNER

CALTEX OIL (AUSTRALIA) PTY LIMITED

ESTATE AND LAND

Estate in Fee Simple

LOT 2 REGISTERED PLAN 106025
County of AUBIGNY

Parish of DRAYTON

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 10005083 (POR 429)

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - Yes

Certificate No. 1

** End of Current Title Search **

Requested By: External Token



QUEENSLAND
GOVERNMENT

CURRENT TITLE SEARCH

DEPT. OF NATURAL RESOURCES, QUEENSLAND

Request No: 537148

Search Date: 30/04/1998 2:02 pm

Title Reference: 13802227

Date Created: 23/09/1965

Previous Title: 11185036

REGISTERED OWNER

CALTEX OIL (AUSTRALIA) PTY LIMITED

ESTATE AND LAND

Estate in Fee Simple

LOT 3 REGISTERED PLAN 106025

County of AUBIGNY

Parish of DRAYTON

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 10005083 (POR 429)

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - Yes

Certificate No. 1

** End of Current Title Search **

Requested By: External Token

106025

sch4p4(6) Personal information

Auth. Surveyor.

on R.R. 106023

CROWN COPYRIGHT RESERVED
REGISTRAR OF TITLES, QUEENSLAND

RAYTON
REGISTERED PLAN 106025

..CISF

Drawing of Plan must be restricted to the space inside the blue lines

106025

<p>1. Authorised Surveyor, do hereby solemnly and sincerely declare that I have faithfully and truly surveyed, measured and marked on the ground the parcel of land herein referred to, and that the measurements and boundaries given in this plan are correct, and do not to the best of my belief in any way interfere with the rights or property of any persons, owners or occupiers of the land adjoining the above land, and described in the said plan; and I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the "Oaths Act, 1967-1968"</p> <p style="text-align: center;">sch4p4(6) Personal information</p> <p style="text-align: center;">Authorised Surveyor</p> <p>Made and Signed at <u>Teowoomba</u> this <u>12th</u> day of <u>October</u> 19<u>65</u> before me.</p> <p style="text-align: center;">Signature of Registrar of Titles or of a Magistrate.</p>	<p style="text-align: center;">- FOR SURVEYOR'S USE ONLY -</p> <p>SURVEY OF <u>Sub 10 and Resubs 1 to 5</u> of Subs <u>6 to 8</u> of Resub <u>1A</u> of <u>Sub 1 of Portion 429</u></p> <p>County of <u>Aubigny</u> Parish of <u>Drayton</u></p> <p>Town of <u>Teowoomba</u> To the Depth of _____</p> <p>Cancelling _____</p> <p>Orig. Grant _____ Orig. Portion <u>429</u></p>																		
<p>The Council of the <u>City</u> of <u>Teowoomba</u> certifies that all the requirements of this Council, the Local Government Acts of 1936 to 1963 and all By-Laws have been complied with and approves this Plan of Subdivision subject to <u>THE AMENDMENT OF RECONSIDERATIONS 4 AND 5 WITH SUBDIVISION 10</u></p> <p>Dated this <u>30th</u> day of <u>October</u> 19<u>65</u></p> <p style="text-align: right;">Chairman or Mayor Town or Shire Clerk</p>	<p style="text-align: center;">- FOR OFFICE USE ONLY -</p> <p>Previous Title <u>1185-96 Resub 1A</u> <u>75892-1</u> <u>Resub 1A</u> <u>Sub 10 (Part) See Plan No. 116463-8</u> <u>Sub 10 (Bal.) See Plan No. 116464-8</u> <u>Lot 1 See (S. 2196) (C)</u> <u>New C.T. Ref.</u></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>(Re) Sub.</th> <th>Vol.</th> <th>Fol.</th> </tr> </thead> <tbody> <tr> <td><u>Sub 5</u></td> <td><u>3802</u></td> <td><u>227</u></td> </tr> <tr> <td><u>Sub 6</u></td> <td><u>3802</u></td> <td><u>228</u></td> </tr> <tr> <td><u>Sub 7</u></td> <td><u>3802</u></td> <td><u>138</u></td> </tr> <tr> <td><u>Sub 8</u></td> <td><u>3802</u></td> <td><u>139</u></td> </tr> <tr> <td><u>Sub 9</u></td> <td><u>3802</u></td> <td><u>140</u></td> </tr> </tbody> </table>	(Re) Sub.	Vol.	Fol.	<u>Sub 5</u>	<u>3802</u>	<u>227</u>	<u>Sub 6</u>	<u>3802</u>	<u>228</u>	<u>Sub 7</u>	<u>3802</u>	<u>138</u>	<u>Sub 8</u>	<u>3802</u>	<u>139</u>	<u>Sub 9</u>	<u>3802</u>	<u>140</u>
(Re) Sub.	Vol.	Fol.																	
<u>Sub 5</u>	<u>3802</u>	<u>227</u>																	
<u>Sub 6</u>	<u>3802</u>	<u>228</u>																	
<u>Sub 7</u>	<u>3802</u>	<u>138</u>																	
<u>Sub 8</u>	<u>3802</u>	<u>139</u>																	
<u>Sub 9</u>	<u>3802</u>	<u>140</u>																	
<p>As Proprietor of this land, I agree to this Plan of subdivision, and dedicate the new roads shown hereon to public use</p> <p>Signature of Proprietor _____</p> <p><u>Subs 4, 5 + 10 (Part) See</u></p> <p><u>Subs</u></p>	<div style="border: 1px solid black; padding: 5px; text-align: center; margin-bottom: 10px;"> <p>For Additional Plan & Document Notings Refer to CISP</p> </div> <div style="text-align: right; margin-top: 100px;"> <p>1185-36</p> <p>52598</p> <p>21/12/65</p> <p>5-7-6</p> </div> <div style="text-align: right; margin-top: 20px;"> <p>1965 DEC 2 PM 2:54</p> <p>REC'D OF TITLES RECEIVED</p> <p style="font-size: 2em; transform: rotate(-90deg);">686617D</p> </div>																		
<p>Calc. Bk. No. <u>222/109</u></p> <p>Examined <u>14/11/65</u></p> <p>Passed <u>20/11/65</u></p> <p>Charted <u>19/11/65</u></p> <p>Located <u>T.M. Teowoomba Sub 9</u></p>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Particulars entered in Register Book</p> <p>Vol. <u>1185</u> Folio <u>36</u></p> <p>the <u>22</u> day of <u>April</u> 19<u>65</u> at <u>11.10</u></p> <p style="text-align: center;">REGISTRAR OF TITLES</p> </div> <p>Lodged by: _____</p>																		

Sub 10 and Resubs 1 to 5 of Subs 6 to 8 of Resub 1A of Sub 1 of _____

Orig. Portion 429

Town of Teowoomba

Parish of Drayton

REGISTERED PLAN 106025

(C)

QUEENSLAND.

[CERTIFICATE OF TITLE

Dealing No. **D334555**
Reference to previous

Register Book

Volume Folio

VOL. 3902 FOLIO 138

Vol. **3902** Folio **138**

1185

36



sch4p4(6) Personal information

is

now seized _____ of an Estate in Fee-simple, subject nevertheless to such encumbrances, liens, and interests as are by memorandum notified hereon, in All that piece of Land situated in the County of Aubigny Parish of Drayton City of _____

Containing Thirty six perches and eight tenths of a perch

more or less, as shown on the Plan hereon, and therein edged red, Being Resubdivision 2 of subdivision 7 of resubdivision 1A of subdivision 1 of Portion 429 on registered Plan No. 106025

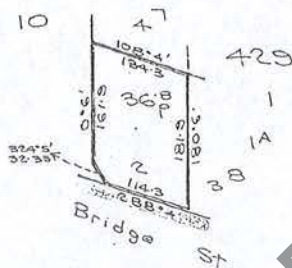
Saving Always to the Crown all the rights and interests reserved to it by Deed of Grant No. 4212

In Witness whereof, I have hereunto signed my name and affixed my seal, this first day of July One thousand nine hundred and sixty six

Signed, Sealed, and Delivered in presence of

Scale, $1\frac{1}{2}$ chains per inch.

REGISTRAR OF TITLES



as joint tenants

now seized of an Estate in fee-simple in the within land

Transfer No. D334555 Produced 11 May 1966 / 153

Registered 11 July 1966

REGISTRAR OF TITLES

Colton Oil (Australia) Pty. Limited.

now seized of an Estate in fee-simple in the within land

Transfer No. 2913039 Produced 11 Aug 1967 / 1036a

Registered 5 Aug 1967

REGISTRAR OF TITLES

THE DESCRIPTION OF THE WITHIN LAND IS CONVERTED TO LOT 2

ON REGISTERED PLAN No. 106025

12 FEB 1987

REGISTRAR OF TITLES

(C)

QUEENSLAND

[CERTIFICATE OF TITLE

Dealing No. D248104

Reference to previous

Register Book

Volume Folio

VOL: 3802 FOLIO: 227

Vol. 3802 Folio 227

1185

36



13802227



sch4p4(6) Personal information and

are

now seized as joint tenants of an Estate in Fee-simple, subject nevertheless to such encumbrances, liens, and interests as are by memorandum notified hereon, in All that piece of Land situated in the County of Aubigny Parish of Drayton City of

Containing Thirty two perches and six tenths of a perch

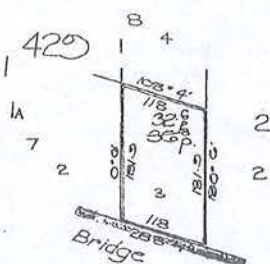
more or less, as shown on the Plan hereon, and therein edged red, Being Resubdivision 3 of subdivision 8 of resubdivision 1A of subdivision 1 of Portion 429 on registered Plan No. 106025

Saving Always to the Crown all the rights and interests reserved to it by Deed of Grant No. 4212

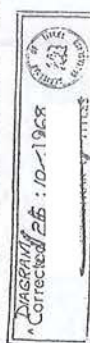
In Witness whereof, I have hereunto signed my name and affixed my seal, this twenty third day of September One thousand nine hundred and sixty five

Signed, Sealed, and Delivered in presence of

Scale, 1/2 chains per inch.



REGISTRAR OF TITLES



mtg
D653091

Pen/Rd
D9/3048

09/3049

as joint tenants
now seized of an Estate in fee-simple in the within land.
Transfer No. D653091 Produced 23 Oct 1968 at 2.00 pm.
Registered 18 Nov 1968



No. D653091
to The Company of 1968 Limited
Produced 23 Oct 1968
Registered 18 Nov 1968



REGISTRAR OF TITLES

Callan A. (Australia) Pty. Limited
now seized of an Estate in fee-simple in the within land.
Transfer No. D9/3048 Produced 4 Aug 1970 at 10.30 am.
Registered 18 Aug 1970



REGISTRAR OF TITLES

THE DESCRIPTION OF THE WITHIN LAND IS CONVERTED
TO LOT(S) 3

ON REGISTERED PLAN No. 106025

6 FEB 1987

REGISTRAR OF TITLES



1118503E

No. 199296

QUEENSLAND
GOVERNMENT

(C)

No. of PREVIOUS

REGISTER BOOK, VOL. 1185 FOLIO 36

CERTIFICATE OF TITLE.

of Robert Grant. W. D. Wall of Northampton, _____
pursuant to Memorandum of Conveyance No. 520084 _____ produced the _____ day of
October _____ 1911, registered the _____ day of October _____ 1911 is now seized _____ of
an Estate in Fee-simple, subject nevertheless to such encumbrances, liens, and interests as are by memorandum notified hereon, in
all that piece of Land situated in the County of Salisbury _____ Parish of Daylesham
Being subdivisions one of subdivision one of section 1029 _____

containing by admeasurement Eighteen acre seven perches and two luths of a perch
more or less, commencing on the south west boundary of the portion six chains fifty links
from the south west corner and bounded thence on the west by a line of a
chain of S. thirty chains twenty five links and one luth of a link on the north by
a right bearing $339^{\circ} 41'$ six chains eighty links and half a link on the east by
a line bearing $339^{\circ} 41'$ thirty three chains eighty links and half a link
and on the south by a right bearing $258^{\circ} 7'$ six chains nine luths and two luths
of a link to the point of commencement.

originally granted by Deed of Grant No. 14212

Saving Always to the Crown all the rights and interests reserved to it by the said Deed of Grant.

In Witness whereof, I have herunto signed my name and affixed my seal this Twenty third
day of March One thousand nine hundred and Eleven

Signed, Sealed, and Delivered, the 23
day of October 1911, in presence of

Parrish of ^{Michigan}
Dryden 18

PK

Scale, 10 Chains per inch.

EX-107 CANCELLED



REGISTRAR OF TITLES

PURSUANT to Memo. of TRANSFER No. A/16016 produced
19 Feb 1930, at 11:26 a.m. registered 24 Feb 1930

of Labigny is now SEISED of an Estate IN FEE
SIMPLE in the WHO! F of the within 1 and

sch4p4(6) Personal information



REGISTRAR OF TITLES

PURSUANT to Memo. of TRANSFER No. A134004 produced
13 Oct 1930 at 10.40 a.m., registered 15 Oct 1930

of now now SEISED of an Estate IN FEE
SIMPLE in the WHOLE of the within Land.



REGISTRAR OF TITLES

No. A134005 Bill of Mortgage produced 13 Oct
1930 at 10.40 a.m., registered 15 Oct 1930

from the Bill of Mortgage
to secure the payment of the monies and interest therein referred to.
RELEASED on the production of the Bill of Mortgage No. A134005 produced 13 Oct 1930 at 10.40 a.m., registered 15 Oct 1930.



REGISTRAR OF TITLES

PURSUANT to Memo. of TRANSFER No. A148601 produced
1 June 1931 at 2.6 p.m., registered 10 Feb 1932

of now now SEISED of an Estate IN FEE
SIMPLE in the WHOLE of the within Land as joint
tenants.



REGISTRAR OF TITLES

No. A148602 Bill of Mortgage produced 1 June
1931 at 2.6 p.m., registered 10 Feb 1932

from to the Building
to secure the payment of the monies and interest therein referred to.
RELEASED on the production of the Bill of Mortgage No. A148602 produced 1 June 1931 at 2.6 p.m., registered 10 Feb 1932.



REGISTRAR OF TITLES

PURSUANT to Memo. of TRANSFER No. A1571496 produced
7 May 1935 at 3.1 p.m., registered 28 May 1935

of now now SEISED of an Estate IN FEE
SIMPLE in the WHOLE of the within Land
Subject to Bill of Mortgage No. A148602



REGISTRAR OF TITLES

PURSUANT to Memo. of TRANSFER No. A174218 produced
15 Oct 1935 at 2.19 p.m., registered 11 Oct 1935

of now now SEISED of an Estate IN FEE
SIMPLE in the WHOLE of the within Land as joint tenants



REGISTRAR OF TITLES

QUEENSLAND
GOVERNMENT

No. B643627 TRANSFER of 2 rods 15 to 6 to

Produced
7 May 1959 at 12.7 p.m., registered 1 June 1959
Cancelled as above vide Vol. 3381 fol. 42



REGISTRAR OF TITLES

No. B643628 TRANSFER of 2 rods 16 to 6 to

Produced
7 May 1959 at 12.7 p.m., registered 1 June 1959
Cancelled as above vide Vol. 3381 fol. 42



REGISTRAR OF TITLES

No. B643631 TRANSFER of 2 rods 15 to 6 to

Produced
7 May 1959 at 12.7 p.m., registered 1 June 1959
Cancelled as above vide Vol. 3381 fol. 42



REGISTRAR OF TITLES

No. A141332 By Plan Cat. No. 75894

the within land
is subdivided into Sub 1 to 10
Produced 25 June 1958 at 4.40 p.m.
Registered 2 Mar 1961



REGISTRAR OF TITLES

No. B737378 TRANSFER of 2 rods 9 to 6 to

Produced
11 May 1960 at 1.5 p.m., registered 2 Mar 1961
Cancelled as above vide Vol. 3381 fol. 42



REGISTRAR OF TITLES

No. B643627 TRANSFER of 2 rods 15 to 6 to

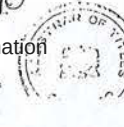
Produced
7 May 1959 at 3.27 p.m., registered 2 Mar 1961
Cancelled as above vide Vol. 3381 fol. 42



REGISTRAR OF TITLES

No. B643628 TRANSFER of 2 rods 16 to 6 to

Produced
7 May 1959 at 3.27 p.m., registered 2 Mar 1961
Cancelled as above vide Vol. 3381 fol. 42



REGISTRAR OF TITLES

sch4p4(6) Personal information

No. 643631 TRANSFER of Sub 15 of Sub 3
 - 5 -
 Produced
7 May 1966 at 3.27pm, registered 22 Jan 1966
 Cancelled as above vide Vol. 3393 Fol. 9
 REGISTRAR OF TITLES

No. _____ TRANSFER of _____
 Produced
 19____ at _____m, registered _____
 Cancelled as above vide Vol. _____ Fol. _____
 REGISTRAR OF TITLES

No. D57987 Record of Death of _____
 on 26 June 1963
 Produced 20 Feb 1964 at 12.4pm, Entered 12 Oct 1964
 do for as subject to Sub 4 and 6 to D.
 REGISTRAR OF TITLES

No. D173919 By Plan C. 111, 106025 Sub 3
 the within land is subdivided into
Sub 10 is resumed
 Produced 2 Dec 1964 at 2.54p
 Registered 22 Apr 1965
 REGISTRAR OF TITLES

No. D248104 Transfer of Sub 3 of Sub 8 to
Hallon Produced 4 Aug 1965 at 1.29m
 Registered 27 Aug 1965
 Vol. 3502
 Fol. 227
 REGISTRAR OF TITLES

No. D290527 Transfer of Sub 1 of Sub 6 to
and
 Produced 16 Dec 1965 at 11.35am
 Registered 24 Dec 1965
 Vol. 3842
 Fol. 58
 REGISTRAR OF TITLES

No. D334555 Transfer of Sub 2 of Sub 7 to -
 Produced 76 May 1966 at 11.53am
 Registered 2 June 1966
 Vol. 39021
 Fol. 138
 REGISTRAR OF TITLES

D334554 Transfer of Subs 4 and 5 of Sub 6
and 8 to
 Produced 16 May 1966 at 11.53am
 Registered 8 July 1966
 Vol. 3914
 Fol. 18
 REGISTRAR OF TITLES

D334554 Transfer of Subs 4, 9 and 10 to
 Produced 14 May 1966 at 11.53am
 Registered 8 July 1966
 Vol. 3912
 Fol. 18/9
 REGISTRAR OF TITLES

D87987

D234955
D35055

D248104
A2/1
D354572
54,9,10A413

D270527
A.7.

D334554
54.9/10

D371...

1773...

D...
R41
31/4/66

FULLY CANCELLED

RTI DL Release - EHP

APPENDIX B
PHOTOGRAPH LOG

PHOTOGRAPH LOG
 APPENDIX B

Date	Photograph #	Description
19/5/98	1	A view of the service station before decommissioning began. The two bollards to the left of the vehicle indicate the former position of one of the bowzers (previously removed). The boarded entrance to the left of the photograph is the service bay. The aspect of the photograph is to the north-east.
19/5/98	2	Looking to the south-west at the waste oil AST. Hydrocarbon surface staining can be seen on the concrete under the AST and along the wall to the left. The triple interceptor trap is located inside the building behind this wall.
21/5/98	3	The UST cavity after the five tanks have been removed. Stockpile Areas A-2, A-3 and A-4 can be seen from right to left, respectively. The photograph orientation is to the south-east.
21/5/98	4	A view to the north-west over the UST cavity. Stockpile Area A-1 can be seen in the background.
21/5/98	5	Looking south-west at the former waste oil AST location. Hydrocarbon staining can be seen on the brick wall as well as the ground.
21/5/98	6	Looking north-west at the former position of the triple interceptor trap. The annex enclosing it was demolished to access the interceptor.
3/6/98	7	A view of the former UST cavity looking to the south-east after backfilling with imported clean fill and remediated soil.
3/6/98	8	A view to the north-west of the interceptor excavation after backfilling.



1



2



3



4



5



6



7



8

RTI DL Release - EHP

APPENDIX C
ANALYTICAL DATA

ENVIRONMENTAL AND INDUSTRIAL SERVICES DIVISION

Trading as Australian Analytical Laboratories Pty Ltd
ACN 009 076 555

Correspondence to:
508 City Road
STH MELB VIC 3205

508 City Road
SOUTH MELBOURNE VIC 3205
Telephone: (03) 9699 8332
Facsimile: (02) 9699 9695

CERTIFICATE OF ANALYSIS

Contents :

- 1) Cover Page
- 2) Analysis Report Pages
- 3) QA/QC Appendix

REPORT No : 8B00200
ATTENTION : Ms Stephanie Williams
CLIENT : OTEK Australia
SAMPLES : 31
REFERENCE : B98080/10637
DATE RECEIVED : 22/05/98
DATE REPORTED : 29/05/98

<u>Method</u>	<u>Description</u>
E7500	Moisture (%w/w)
E1220	Total Petroleum Hydrocarbons
E1010	Benzene, Toluene, Ethylbenzene & Xylene
E5980	Metals by AAS

RESULTS

All samples were analysed as received. This report relates specifically to the samples 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 schemes indicated with * NATA registration does not cover the performance of this service.

PLEASE SEE ATTACHED PAGES FOR RESULTS

sch4p4(6) Personal information

S. MATHESON
Manager Environmental Melbourne

W. BOBOSKIC
Senior Chemist

Job Number : 8B00200
 Client : OTEK Australia
 Reference : B98080/10637

Page 1 of 6
 plus Cover Page

Analyte	Lab No	E00167	E00168	E00169	E00170	E00171
	Sample Id	S-1	S-2	S-3	S-4	S-5
	PQL					
Moisture Content	1	21	21	25	20	24
E1220 TPH in Soil						
Total C6-C36	10	nd	nd	nd	nd	nd
C6-C9 Fraction	10	nd	nd	nd	nd	nd
C10-C14 Fraction	10	nd	nd	nd	nd	nd
C15-C28 Fraction	20	nd	nd	nd	nd	nd
C29-C36 Fraction	20	nd	nd	nd	nd	nd
E1010 BTEX (P&T) in Soil						
Benzene	0.5	nd	nd	nd	nd	nd
Toluene	1	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd
Total Xylenes	3	nd	nd	nd	nd	nd
Metals by AAS						
Lead	10	nd	nd	nd	nd	nd

PQL = Practical Quantitation Limit
 LNR = Samples Listed not Received
 nd = Not Detected (<PQL)
 -- = Not Applicable

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

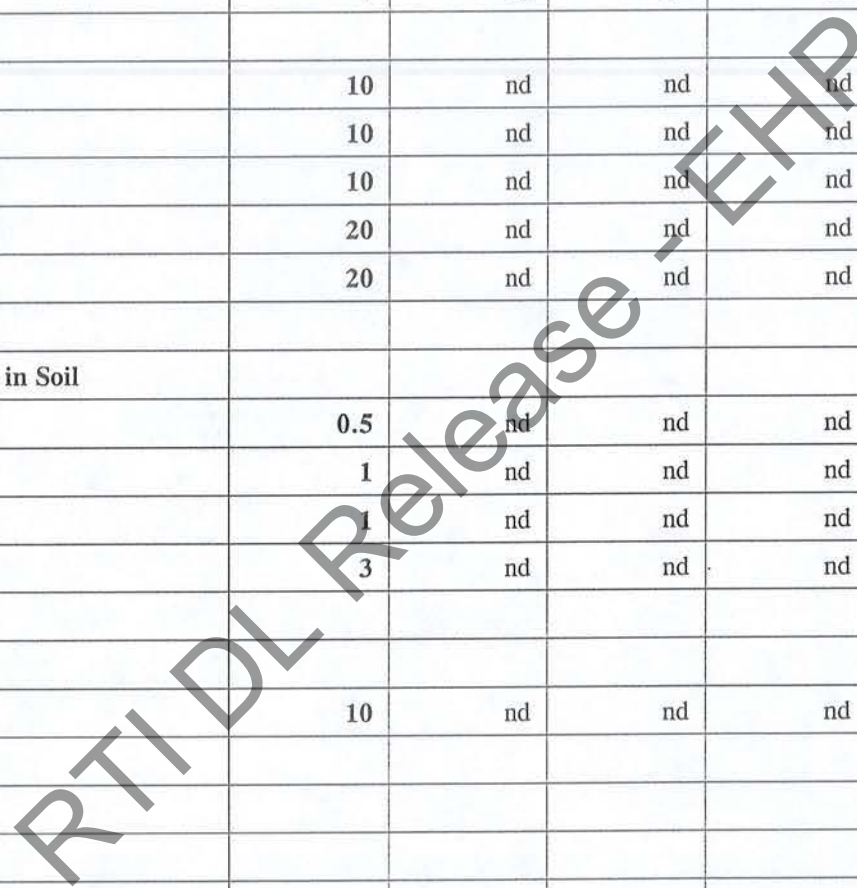
Job Number : 8B00200
 Client : OTEK Australia
 Reference : B98080/10637

Page 2 of 6
 plus Cover Page

Analyte	Lab No	E00172	E00173	E00174	E00175	E00176
	Sample Id	S-6	S-7	S-8	S-9	S-10
	PQL					
Moisture Content	1	20	22	21	22	22
E1220 TPH in Soil						
Total C6-C36	10	nd	nd	nd	nd	nd
C6-C9 Fraction	10	nd	nd	nd	nd	nd
C10-C14 Fraction	10	nd	nd	nd	nd	nd
C15-C28 Fraction	20	nd	nd	nd	nd	nd
C29-C36 Fraction	20	nd	nd	nd	nd	nd
E1010 BTEX (P&T) in Soil						
Benzene	0.5	nd	nd	nd	nd	nd
Toluene	1	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd
Total Xylenes	3	nd	nd	nd	nd	nd
Metals by AAS						
Lead	10	nd	nd	nd	nd	nd

PQL = Practical Quantitation Limit
 LNR = Samples Listed not Received
 nd = Not Detected (<PQL)
 -- = Not Applicable

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



Page 3 of 6
plus Cover Page

[illegible]

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

Job Number : 8B00200
 Client : OTEK Australia
 Reference : B98080/10637

Page 4 of 6
 plus Cover Page

Analyte	Lab No	E00182	E00183	E00184	E00185	E00186
	Sample Id	S-16	S-17	S-18	S-19	S-20
	PQL					
Moisture Content	1	23	24	23	23	23
E1220 TPH in Soil						
Total C6-C36	10	nd	nd	nd	nd	nd
C6-C9 Fraction	10	nd	nd	nd	nd	nd
C10-C14 Fraction	10	nd	nd	nd	nd	nd
C15-C28 Fraction	20	nd	nd	nd	nd	nd
C29-C36 Fraction	20	nd	nd	nd	nd	nd
E1010 BTEX (P&T) in Soil						
Benzene	0.5	nd	nd	nd	nd	nd
Toluene	1	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd
Total Xylenes	3	nd	nd	nd	nd	nd
Metals by AAS						
Lead	10	nd	nd	nd	nd	nd

PQL = Practical Quantitation Limit
 LNR = Samples Listed not Received
 nd = Not Detected (<PQL)
 -- = Not Applicable

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

Job Number : 8B00200
 Client : OTEK Australia
 Reference : B98080/10637

Page 5 of 6
 plus Cover Page

Analyte	Lab No	E00187	E00189	E00192	E00193	E00194
	Sample Id	S-21	S-23	S-26	S-27	S-28
	PQL					
Moisture Content	1	15	22	14	16	10
E1220 TPH in Soil						
Total C6-C36	10	nd	--	nd	nd	nd
C6-C9 Fraction	10	nd	--	nd	nd	nd
C10-C14 Fraction	10	nd	--	nd	nd	nd
C15-C28 Fraction	20	nd	--	nd	nd	nd
C29-C36 Fraction	20	nd	--	nd	nd	nd
E1010 BTEX (P&T) in Soil						
Benzene	0.5	nd	nd	nd	nd	nd
Toluene	1	nd	nd	nd	nd	nd
Ethylbenzene	1	nd	nd	nd	nd	nd
Total Xylenes	3	nd	nd	nd	nd	nd
Metals by AAS						
Lead	10	nd	--	38	47	nd

PQL = Practical Quantitation Limit
 LNR = Samples Listed not Received
 nd = Not Detected (< PQL)
 -- = Not Applicable

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

	Lab No	E00195	E00196	E00197		
Analyte	Sample Id	S-29	QS-1	COMP-1		
	PQL					
Moisture Content	1	13	22	21		
E1220 TPH in Soil						
Total C6-C36	10	nd	nd	nd		
C6-C9 Fraction	10	nd	nd	nd		
C10-C14 Fraction	10	nd	nd	nd		
C15-C28 Fraction	20	nd	nd	nd		
C29-C36 Fraction	20	nd	nd	nd		
E1010 BTEX (P&T) in Soil						
Benzene	0.5	nd	nd	--		
Toluene	1	nd	nd	--		
Ethylbenzene	1	nd	nd	--		
Total Xylenes	3	nd	nd	--		
Metals by AAS						
Lead	10	nd	nd	nd		

PQL = Practical Quantitation Limit

LNR = Samples Listed not Received

nd = Not Detected (<PQL)

-- = Not Applicable

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

Waters : mg/L (ppm) unless otherwise specified

Leachates : mg/L (ppm) in leachate

QA/QC APPENDIX NO. 8B00200

<u>Method</u>	<u>Description</u>
E1220	Total Petroleum Hydrocarbons
E1010	Benzene, Toluene, Ethylbenzene & Xylene
E5980	Metals by AAS

Chromatography QA/QC

	Yes	No	N/A
Retention Time Window Within Acceptance Criteria($\pm 2\%$)	✓		
Check Standard Within Acceptance Criteria($\pm 10\%$)	✓		
Recalibration Within Acceptance Criteria($\pm 15\%$)	✓		

Other QA/QC

Holding time conforming With Method Specification	✓
Chain of Custody Attached	✓

N/A = Not Applicable

Comments

1. Laboratory QA/QC including Duplicates, Matrix Spike Duplicates, and check/reference samples are included in this QA/QC appendix. (Where applicable)
2. Inter-Laboratory proficiency trial results available on request. (Where applicable)
3. Surrogate description and recoveries are recorded in the Report. (Where applicable)
4. Acceptance criteria for specific analytes are listed on each QA/QC page.
5. Practical Quantitation Limit (PQL is typically 2-10 x method detection limit (MDL)).
6. PQL's are matrix dependent and are increased accordingly where sample extracts are diluted.
7. Results are uncorrected for matrix spike or surrogate recoveries.

sch4p4(6) Personal information

S. MATHESON
Manager Environmental Melbourne

W. BOBOSKIC
Seniot Chemist

QAQC : Laboratory Duplicates

[illegible]

PQL = Practical Quantitation Limit

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/L (ppm)

```
nd      = Not I
--      = Not A
```

All results are within the acceptance criteria:

Refer to Amdel-Sydney Quality Control Manual SPM-01 4th Edition 1/7/97

QAQC : Method Blank

[illegible]

PQL = Practical Quantitation Limit

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/l (ppm)

nd = Not Detected
-- = Not Applicable



ACN 054 371 596

Fax: (07) 279 5377

[illegible]

PHONE 3869 5555

PROJECT #		PROJECT NAME										ANALYSIS REQUIRED		PRELIMINARY RESULTS BY:									
B92080		WILSONTON - AP												28/5/98 am/pm ☐ VERBAL ☒ FAX									
COLLECTORS NAME				LAB JOB #								FINAL REPORT BY:											
STEPHANIE WILLIAMS				S6DD200								4/6/98 am/pm											
SAMPLE ID	LAB #	MATRIX				PRESERVATION METHOD				SAMPLING DATE	No. OF CONTAINERS	REMARKS											
		WATER	SOIL	AIR	SLUDGE	ICE	ACIDIFIED	OTHER	NONE														
S-1	600167									21.5.98	1												
S-2	68																						
S-3	69																						
S-4	70																						
S-5	71																						
S-6	72																						
S-7	73																						
S-8	74																						
S-9	75																						
S-10	76																						
S-11	77																						
S-12	78																						
S-13	79																						
S-14	80																						
S-15	81																						

RTI DL Release - EHP
 LAYED

Relinquished by: Date Time Received by: Date Time Relinquished by: Date Time Received by: Date Time

21.5.98 4:20.

22/5/98 7:40

RTI 13-019
sch4p4(6) Personal information Collection 1
Page 141



OTEK Australia Pty. Ltd.
Suite 24,
500 Seventeen Mile Rocks Rd
Brisbane, QLD, 4073
ACN 054 371 596

Ph: (07)3279 5266
Fax: (07)3279 5377

CHAIN OF CUSTODY & ANALYSIS REQUEST

LAB ANDEL
ADDRESS FORT LANE, MILTON QLD
LAB CONTACT BILL STAVROPOULOS
PHONE 2369 5555

PROJECT # B98090 PROJECT NAME WILSONTON -AP

COLLECTORS NAME STEPHANIE WILLIAMS LAB JOB # S1300200

SAMPLE ID	LAB #	MATRIX				PRESERVATION METHOD				SAMPLING DATE	No. OF CONTAINERS
		WATER	SOIL	AIR	SLUDGE	ICE	ACIDIFIED	OTHER	NONE		
S-16	E00182		✓			✓				21-5-98	1
S-17	83										
S-18	84										
S-19	85										
S-20 <u>New ID:</u>	86										
S-21 <u>E01565</u>	87										
S-22	88										
S-23 <u>E01566</u>	89										
S-24	90										
S-25	91										
S-26	92										
S-27	93										
S-28	94										
S-29	95										
QS-1	96	✓				✓					

ANALYSIS REQUIRED

BTEX / Pb / TPH
Metals / PAH

PRELIMINARY RESULTS BY: 28/5/98 ☐ VERBAL ☒ FAX

FINAL REPORT BY: 4/6/98 ☐ am/pm ☒ pm

REMARKS

E00197
Composite sample BTEX
Analysis to be done



Relinquished by: <u>11</u>	Date <u>21-5-98</u>	Time Received by:	Date <u>21/5</u>	Time Relinquished by: <u>4:20</u>	Date	Time Received by:	Date	Time Received by:
Relinquished by:	Date	Time Received by:	Date	Time Relinquished by:	Date	Time Received by:	Date	Time Received by:

amdel
AMDEL LTD

INDUSTRIAL AND ENVIRONMENTAL SERVICES DIVISION

Trading as Australian Analytical Laboratories Pty Ltd

ACN 009 076 555

Correspondence to:
508 City Road
South Melb VIC 3205

508 City Road
South Melbourne VIC 3205
Telephone: (03) 9699 8333
Facsimile: (03) 9699 9695

SAMPLE RECEIPT ACKNOWLEDGMENT

TO: OTEK Australia
ATTN: Ms Stephanie Williams
FROM: Mrs Marie Christopolous
DATE: 22/05/98

FAX NO: 07 3279 5377

PAGES: 1 of

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 Ryan Hamilton.

Your Order Number : B98080/10637
Our Reference Number : SB00203
Date Received by Amdel : 22/05/98
Quotation Supplied : No / Yes Quote No.....

ANALYSIS REQUESTED

Total Petroleum Hydrocarbons
Benzene, Toluene, Ethylbenzene & Xylene
Metals by AAS

AMDEL METHOD
CODE
E1220
E1010
E5980

NUMBER OF
SAMPLES
27
27
27

ESTIMATED
REPORT DATE
28/5/98



50% SURCHARGE*

100% SURCHARGE*

* 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 PAUL ADORNO

ENVIRONMENTAL AND INDUSTRIAL SERVICES DIVISION

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ACN 009 076 555

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STH MELB VIC 3205

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SOUTH MELBOURNE VIC 3205
Telephone: (03) 9699 8332
Facsimile: (02) 9699 9695

CERTIFICATE OF ANALYSIS

Contents :

- 1) Cover Page
- 2) Analysis Report Pages
- 3) QA/QC Appendix

REPORT No : 8B00237
ATTENTION : Ms Stephanie Williams
CLIENT : OTEK Australia
SAMPLES : 14
REFERENCE : B98080/11701
DATE RECEIVED : 04/06/98
DATE REPORTED : 10/06/98

<u>Method</u>	<u>Description</u>
E7500	Moisture (%w/w)
E1220	Total Petroleum Hydrocarbons
E1010	Benzene, Toluene, Ethylbenzene & Xylene
E5980	Metals by AAS
E5910	Metals by ICP-AES
E1110	Polynuclear Aromatic Hydrocarbons

RESULTS

All samples were analysed as received. This report relates specifically to the samples 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 schemes indicated with * NATA registration does not cover the performance of this service.

PLEASE SEE ATTACHED PAGES FOR RESULTS

S. MATHESON
Manager Environmental Melbourne

sch4p4(6) Personal information

W. BOBOSKIC
Senior Chemist

Job Number : 8B00237
 Client : OTEK Australia
 Reference : B98080/11701

Page 3 of 5
 plus Cover Page

Analyte	Lab No	E01238	E01239	E01240	E01241	
	Sample Id	A-2/V-1	A-3/V-1	A-4/V-1	QS-2	
	PQL					
Moisture Content	1	7	15	9	10	
E1220 TPH in Soil						
Total C6-C36	10	80	nd	nd	nd	
C6-C9 Fraction	10	nd	nd	nd	nd	
C10-C14 Fraction	10	nd	nd	nd	nd	
C15-C28 Fraction	20	80	nd	nd	nd	
C29-C36 Fraction	20	nd	nd	nd	nd	
E1010 BTEX (P&T) in Soil						
Benzene	0.5	nd	nd	nd	nd	
Toluene	1	nd	nd	nd	nd	
Ethylbenzene	1	nd	nd	nd	nd	
Total Xylenes	3	nd	nd	nd	nd	
Metals by AAS						
Lead	10	14	34	61	nd	

PQL = Practical Quantitation Limit
 LNR = Samples Listed not Received
 nd = Not Detected (< PQL)
 -- = Not Applicable

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

Job Number : 8B00237
Client : OTEK Australia
Reference : B98080/11701

Page 4 of 5
plus Cover Page

[illegible]

PQL = Practical Quantitation Limit
LNR = Samples Listed not Received
nd = Not Detected (<PQL)
-- = Not Applicable

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

Job Number : 8B00237
 Client : OTEK Australia
 Reference : B98080/11701

Page 5 of 5
 plus Cover Page

Analyte	Lab No	E01236	E01237			
	Sample Id	A-1/V-9	A-1/V-10			
	PQL					
E1110 PAH's in Soil						
Naphthalene	0.5	nd	nd			
Acenaphthylene	0.5	nd	nd			
Acenaphthene	0.5	nd	nd			
Fluorene	0.5	nd	nd			
Phenanthrene	0.5	nd	nd			
Anthracene	0.5	nd	nd			
Fluoranthene	0.5	nd	nd			
Pyrene	0.5	nd	nd			
Benz(a)anthracene	0.5	nd	nd			
Chrysene	0.5	nd	nd			
Benzo(b) & (k)fluoranthene	1	nd	nd			
Benzo(a)pyrene	0.5	nd	nd			
Indeno(1.2.3-cd)pyrene	0.5	nd	nd			
Dibenz(a,h)anthracene	0.5	nd	nd			
Benzo(g,h,i)perylene	0.5	nd	nd			
Total PAH	0.5	nd	nd			
2-Fluorobiphenyl-SURROGATE	-	110	112			
Anthracene-d10-SURROGATE	-	110	112			
d14-Terphenyl-SURROGATE	-	113	117			

PQL = Practical Quantitation Limit

LNR = Samples Listed not Received

nd = Not Detected (<PQL)

-- = Not Applicable

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

Waters : mg/L (ppm) unless otherwise specified

Leachates : mg/L (ppm) in leachate

QA/QC APPENDIX NO. 8B00237

<u>Method</u>	<u>Description</u>
E1220	Total Petroleum Hydrocarbons
E1010	Benzene, Toluene, Ethylbenzene & Xylene
E5980	Metals by AAS
E5910	Metals by ICP-AES
E1110	Polynuclear Aromatic Hydrocarbons

Chromatography QA/QC

	Yes	No	N/A
Retention Time Window Within Acceptance Criteria($\pm 2\%$)	✓		
Check Standard Within Acceptance Criteria($\pm 10\%$)	✓		
Recalibration Within Acceptance Criteria($\pm 15\%$)	✓		

Other QA/QC

Holding time conforming With Method Specification	✓
Chain of Custody Attached	✓

N/A = Not Applicable

Comments

1. Laboratory QA/QC including Duplicates, Matrix Spike Duplicates, and check/reference samples are included in this QA/QC appendix. (Where applicable)
2. Inter-Laboratory proficiency trial results available on request. (Where applicable)
3. Surrogate description and recoveries are recorded in the Report. (Where applicable)
4. Acceptance criteria for specific analytes are listed on each QA/QC page.
5. Practical Quantitation Limit (PQL is typically 2-10 x method detection limit (MDL)).
6. PQL's are matrix dependent and are increased accordingly where sample extracts are diluted.
7. Results are uncorrected for matrix spike or surrogate recoveries.

S. MATHESON
Manager Environmental Melbourne

sch4p4(6) Personal information

W. BOBOSKIC
Senior Chemist

QAQC : Matrix Spike / Laboratory Control Sample

[illegible]

PQL = Practical Quantitation Limit

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/l (ppm)

nd = Not Det
-- = Not App

All results are within the acceptance criteria:

Refer to Amdel-Melbourne Quality Control Manual SPM-01 4th Edition 15/7/97

QAQC : Method Blank

[illegible]

PQL = Practical Quantitation Limit

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/l (ppm)

nd = Not Detec
... = Not Applic

Page 6 of 8

QAQC : Method Blank

[illegible]

PQL = Practical Quantitation Limit

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/l (ppm)

nd = Not Detec
-- = Not Applic

QAQC : Matrix Spike / Laboratory Control Sample

Analyte	Level (ppm)	Level Detected		Recovery Details			
		Result1 (ppm)	Result2 (ppm)	Rec 1 (%)	Rec 2 (%)	Average (%)	RPD (%)
E1110 PAH's in Soil							
Naphthalene	1.67	1.84		110%		110%	
Acenaphthylene	1.67	2.09		125%		125%	
Acenaphthene	1.67	1.59		95%		95%	
Fluorene	1.67	1.63		98%		98%	
Phenanthrene	1.67	1.67		100%		100%	
Anthracene	1.67	1.75		105%		105%	
Fluoranthene	1.67	1.67		100%		100%	
Pyrene	1.67	1.67		100%		100%	
Benz(a)anthracene	1.67	1.59		95%		95%	
Chrysene	1.67	1.63		98%		98%	
Benzo(b) & (k)fluoranthene	3.34	1.57		47%		47%	
Benzo(a)pyrene	1.67	1.42		85%		85%	
Indeno(1.2.3-cd)pyrene	1.67	1.29		77%		77%	
Dibenz(a,h)anthracene	1.67	1.50		90%		90%	
Benzo(g,h,i)perylene	1.67	1.71		102%		102%	
Total PAH	-						
2-Fluorobiphenyl-SURROGATE	100	118		118%		118%	
Anthracene-d10-SURROGATE	100	110		110%		110%	
d14-Terphenyl-SURROGATE	100	115		115%		115%	

PQL = Practical Quantitation Limit

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/l (ppm)

nd = Not Detected
-- = Not Applicable

All results are within the acceptance criteria:

Refer to Amdel-Melbourne Quality Control Manual SPM-01 4th Edition 15/7/97

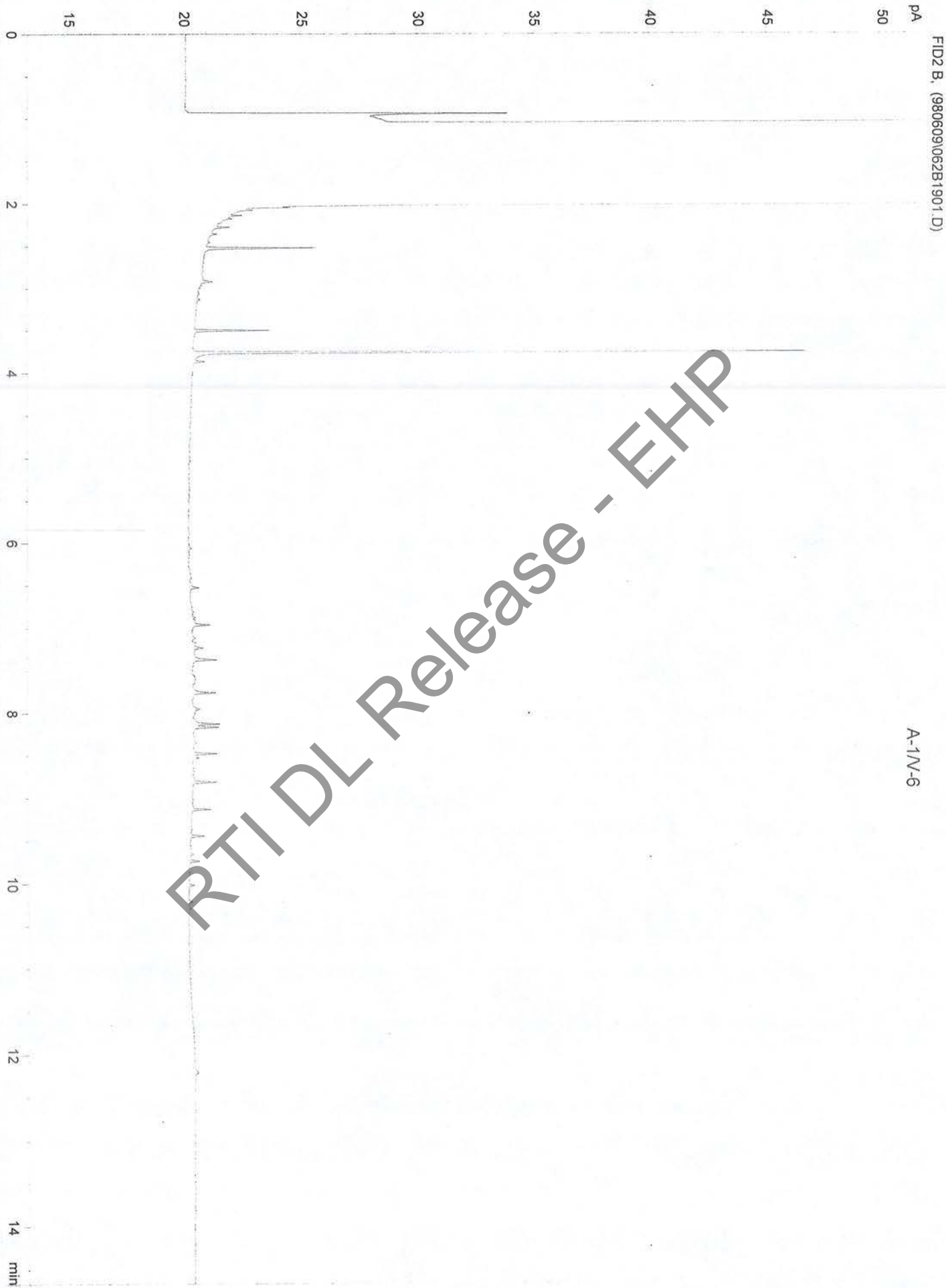
QAQC : Method Blank

ANALYTE	SAMPLE ID	Blank				
	PQL					
E1110 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 PAH	0.5	nd				
2-Fluorobiphenyl-SURROGATE	-	116				
Anthracene-d10-SURROGATE	-	110				
d14-Terphenyl-SURROGATE	-	113				

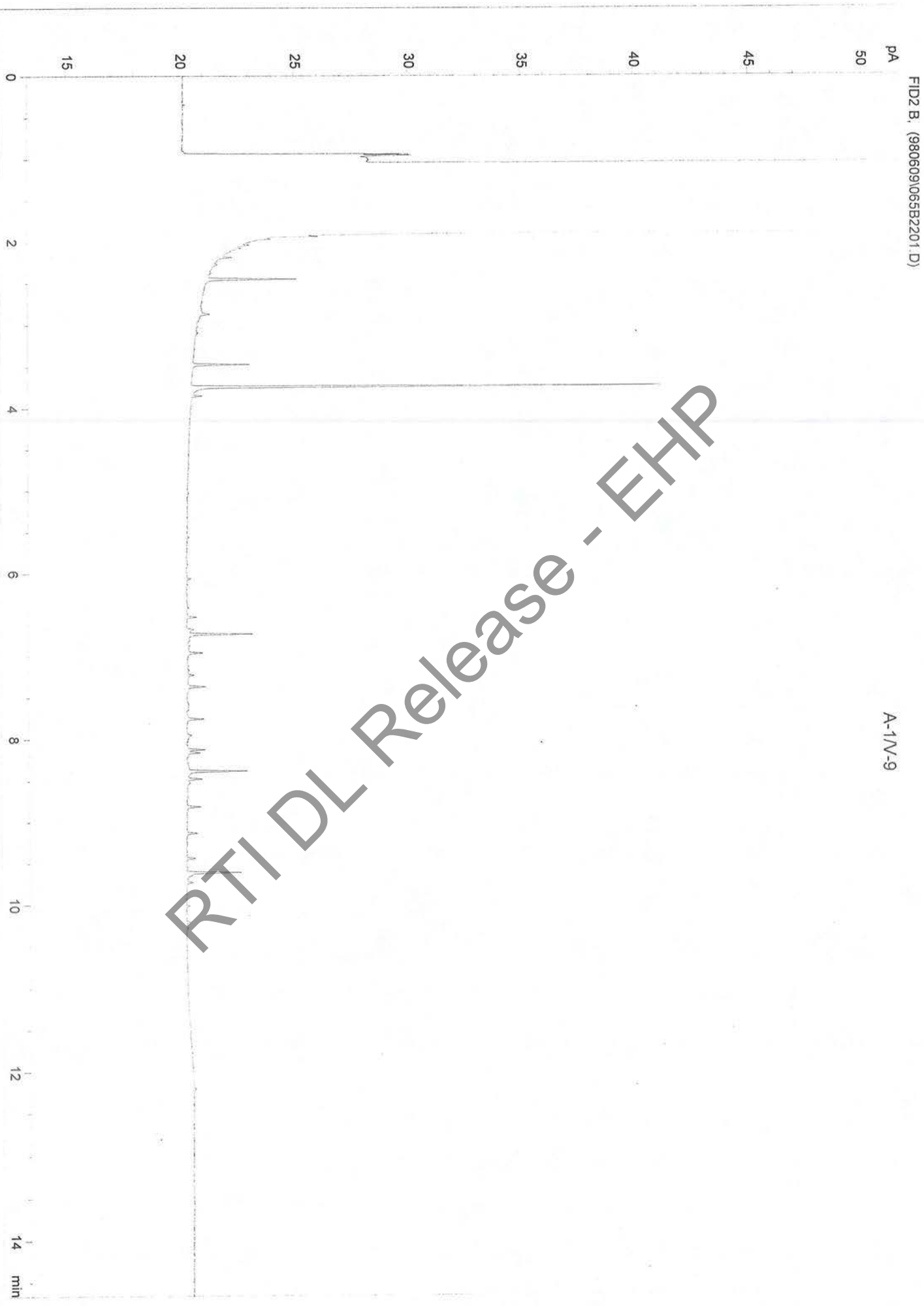
PQL = Practical Quantitation Limit

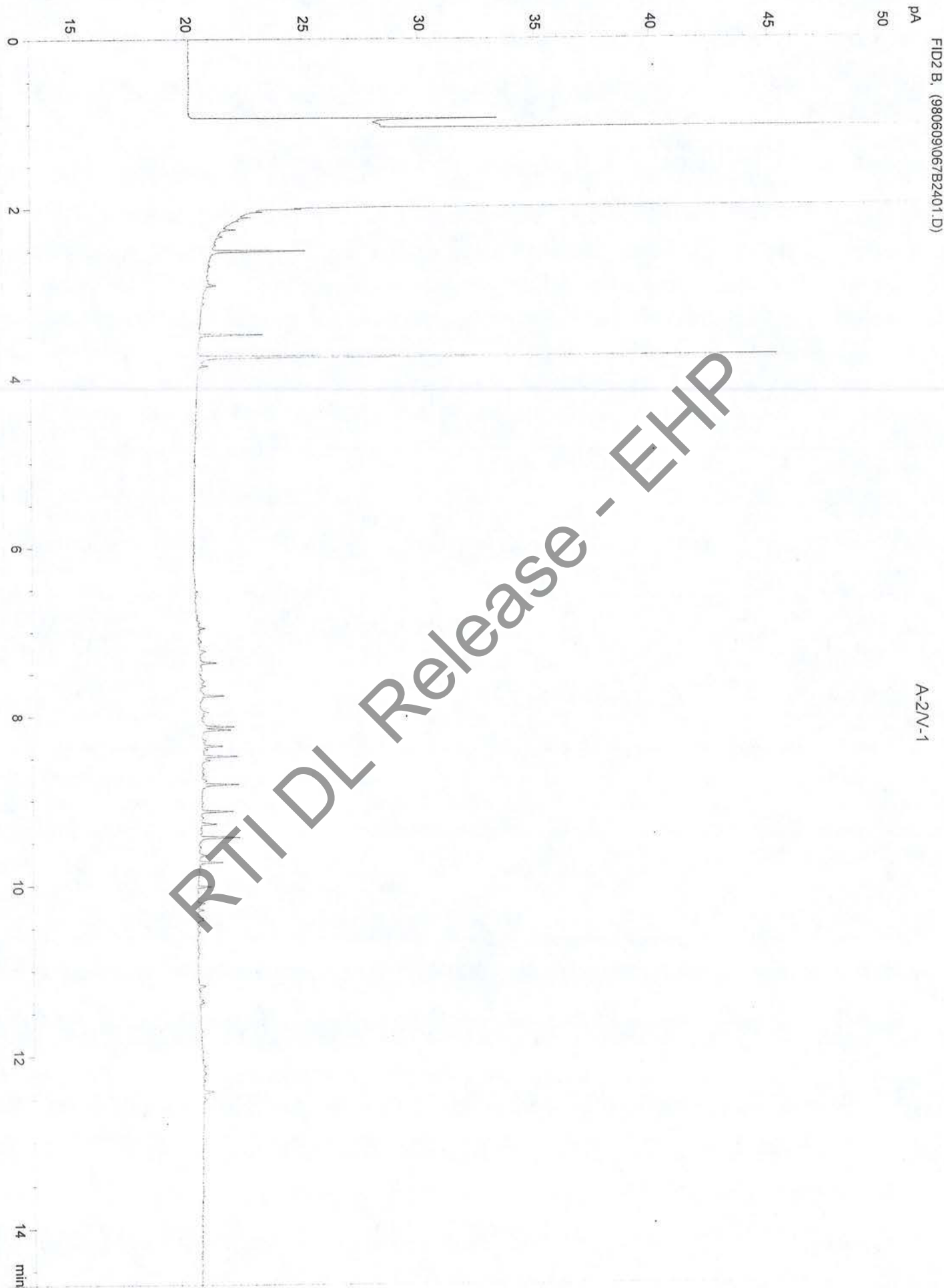
(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/l (ppm)

nd = Not Detected
-- = Not Applicable



A-1/N-6







AUSTRALIA PTY LTD

OTEK Australia Pty. Ltd.
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ACN 054 371 596

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CHAIN OF CUSTODY & ANALYSIS REQUEST

LAB AMDEL
ADDRESS FORT LAWE, MILTON
LAB CONTACT BILL STAVROPOULOS
PHONE 5369 5555

PROJECT # B98080		PROJECT NAME WILSONTON -AP		ANALYSIS REQUIRED										PRELIMINARY RESULTS BY: 9/6/98			
COLLECTORS NAME STEPHANIE WILLIAMS		LAB JOB # 8300237												am/pm ☐ VERBAL ☒ FAX			
SAMPLE ID	LAB #	MATRIX				PRESERVATION METHOD				SAMPLING DATE	No. OF CONTAINERS	BTEX/TPH/Pb	METALS	PAH	FINAL REPORT BY: 16/6/98	am/pm	REMARKS
		WATER	SOIL	AIR	SLUDGE	ICE	ACIDIFIED	OTHER	NONE								
A-1/V-1	E01228		✓			✓				3/6/98	1	✓					REQUIRE RESULTS ON TUESDAY/ THE NINTH AS EARLY AS POSSIBLE (URGENT)
A-1/V-2	29											✓					
A-1/V-3	30											✓					
A-1/V-4	31											✓					
A-1/V-5	32											✓					
A-1/V-6	33											✓					
A-1/V-7	34											✓					
A-1/V-8	35											✓				(BTEX/TPH/Pb BY SCV1) (METALS BY E5910) (PAH BY E1110)	
A-1/V-9	36											✓	✓	✓			
A-1/V-10	37											✓	✓	✓			
A-2/V-1	38											✓					
A-3/V-1	39											✓					
A-4/V-1	40											✓					
QS-2	41	✓				✓						✓					

Relinquished by:	Date	Time	Received by:	Date	Time	Relinquished by:	Date	Time	Received by:	Date	Time
	2.6.98			3/6/98							
				4/6/98	9:50						



INDUSTRIAL AND ENVIRONMENTAL SERVICES DIVISION

Trading as Australian Analytical Laboratories Pty Ltd

ACN 009 076 555

Correspondence to:
508 City Road
South Melb VIC 3205

508 City Road
South Melbourne VIC 3205
Telephone: (03) 9699 8333
Facsimile: (03) 9699 9695

SAMPLE RECEIPT ACKNOWLEDGMENT

TO: OTEK Australia
ATTN: Ms Stephanie Williams
FROM: Mrs Marie Christopolous
DATE: 04/06/98

FAX NO: 07 3279 5377

PAGES: 1 of

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 Marie Christopolous.

Your Order Number : B98080/11701
Our Reference Number : 8B00237
Date Received by Amdel : 04/06/98
Quotation Supplied : No / Yes Quote No.....

ANALYSIS REQUESTED	AMDEL METHOD CODE	NUMBER OF SAMPLES	ESTIMATED REPORT DATE
Total Petroleum Hydrocarbons	E1220	14	10/6/98 ↓
Benzene, Toluene, Ethylbenzene & Xylene	E1010	14	
Metals by AAS	E5980	12	
Metals by ICP-AES	E5910	2	
Polynuclear Aromatic Hydrocarbons	E1110	2	

____ 50% SURCHARGE*

____ 100% SURCHARGE*

* 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 PAUL ADORNO

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CERTIFICATE OF ANALYSIS

Contents :

- 1) Cover Page
- 2) Analysis Report Pages
- 3) QA/QC Appendix

REPORT No : 8B00200A
ATTENTION : Ms Stephanie Williams
CLIENT : OTEK Australia
SAMPLES : 2
REFERENCE : B98080/11701
DATE RECEIVED : 04/06/98
DATE REPORTED : 15/06/98

<u>Method</u>	<u>Description</u>
E7500	Moisture (%w/w)
E1110	Polynuclear Aromatic Hydrocarbons
E5910	Metals by ICP-AES

RESULTS

All samples were analysed as received. This report relates specifically to the samples 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 schemes indicated with * NATA registration does not cover the performance of this service.

PLEASE SEE ATTACHED PAGES FOR RESULTS

S. MATHESON
Manager Environmental Melbourne

sch4p4(6) Personal information

W. BOBOSKIC
Senior Chemist

Job Number : 8B00200A
 Client : OTEK Australia
 Reference : B98080/11701

Page 1 of 2
 plus Cover Page

Analyte	Lab No	E01565	E01566			
	Sample Id	S-21	COMP-1			
	PQL					
Moisture Content	1	15	21			
E1110 PAH's in Soil						
Naphthalene	0.5	nd	nd			
Acenaphthylene	0.5	nd	nd			
Acenaphthene	0.5	nd	nd			
Fluorene	0.5	nd	nd			
Phenanthrene	0.5	nd	nd			
Anthracene	0.5	nd	nd			
Fluoranthene	0.5	nd	nd			
Pyrene	0.5	nd	nd			
Benz(a)anthracene	0.5	nd	nd			
Chrysene	0.5	nd	nd			
Benzo(b) & (k)fluoranthene	1	nd	nd			
Benzo(a)pyrene	0.5	nd	nd			
Indeno(1.2.3-cd)pyrene	0.5	nd	nd			
Dibenz(a,h)anthracene	0.5	nd	nd			
Benzo(g,h,i)perylene	0.5	nd	nd			
Total PAH	0.5	nd	nd			
2-Fluorobiphenyl-SURROGATE	-	90	86			
Anthracene-d10-SURROGATE	-	94	92			
d14-Terphenyl-SURROGATE	-	93	92			

PQL = Practical Quantitation Limit
 LNR = Samples Listed not Received
 nd = Not Detected (<PQL)
 -- = Not Applicable

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

QA/QC APPENDIX NO. 8B00200A

<u>Method</u>	<u>Description</u>
E1110	Polynuclear Aromatic Hydrocarbons
E5910	Metals by ICP-AES

Chromatography QA/QC

	Yes	No	N/A
Retention Time Window Within Acceptance Criteria($\pm 2\%$)	✓		
Check Standard Within Acceptance Criteria($\pm 10\%$)	✓		
Recalibration Within Acceptance Criteria($\pm 15\%$)	✓		

Other QA/QC

Holding time conforming With Method Specification	✓
Chain of Custody Attached	✓

N/A = Not Applicable

Comments

1. Laboratory QA/QC including Duplicates, Matrix Spike Duplicates, and check/reference samples are included in this QA/QC appendix. (Where applicable)
2. Inter-Laboratory proficiency trial results available on request. (Where applicable)
3. Surrogate description and recoveries are recorded in the Report. (Where applicable)
4. Acceptance criteria for specific analytes are listed on each QA/QC page.
5. Practical Quantitation Limit (PQL is typically 2-10 x method detection limit (MDL)).
6. PQL's are matrix dependent and are increased accordingly where sample extracts are diluted.
7. Results are uncorrected for matrix spike or surrogate recoveries.

sch4p4(6) Personal information

S. MATHESON
Manager Environmental Melbourne

W. BOBOSKIC
Senior Chemist

QAQC : Matrix Spike / Laboratory Control Sample

Analyte	Level (ppm)	Level Detected		Recovery Details			
		Result1 (ppm)	Result2 (ppm)	Rec 1 (%)	Rec 2 (%)	Average (%)	RPD (%)
E1110 PAH's in Soil							
Naphthalene	1.67	1.84		110%		110%	
Acenaphthylene	1.67	1.84		110%		110%	
Acenaphthene	1.67	1.63		98%		98%	
Fluorene	1.67	1.67		100%		100%	
Phenanthrene	1.67	1.71		102%		102%	
Anthracene	1.67	1.75		105%		105%	
Fluoranthene	1.67	1.75		105%		105%	
Pyrene	1.67	1.75		105%		105%	
Benz(a)anthracene	1.67	1.42		85%		85%	
Chrysene	1.67	1.67		100%		100%	
Benzo(b) & (k)fluoranthene	3.34	3.00		90%		90%	
Benzo(a)pyrene	1.67	1.34		80%		80%	
Indeno(1.2.3-cd)pyrene	1.67	1.46		87%		87%	
Dibenz(a,h)anthracene	1.67	1.54		92%		92%	
Benzo(g,h,i)perylene	1.67	2.00		120%		120%	
Total PAH	-						
2-Fluorobiphenyl-SURROGATE	100	116		116%		116%	
Anthracene-d10-SURROGATE	100	110		110%		110%	
d14-Terphenyl-SURROGATE	100	113		113%		113%	

PQL = Practical Quantitation Limit

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/l (ppm)

nd = Not Detected
-- = Not Applicable

All results are within the acceptance criteria:

Refer to Amdel-Melbourne Quality Control Manual SPM-01 4th Edition 15/7/97

QAQC : Method Blank

ANALYTE	SAMPLE ID	Blank				
	PQL					
E1110 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 PAH	0.5					
2-Fluorobiphenyl-SURROGATE	-	96				
Anthracene-d10-SURROGATE	-	102				
d14-Terphenyl-SURROGATE	-	104				

PQL = Practical Quantitation Limit

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/l (ppm)

nd = Not Detected
-- = Not Applicable

[illegible]

PQL = Practical Quantitation Limit

All results are within the acceptance criteria:

QAQC : Method Blank

[illegible]

PQL = Practical Quantitation Limit

(S) Soils : mg/kg (ppm) dry weight
(W) Waters : mg/l (ppm)

nd = Not Detected
-- = Not Applicable

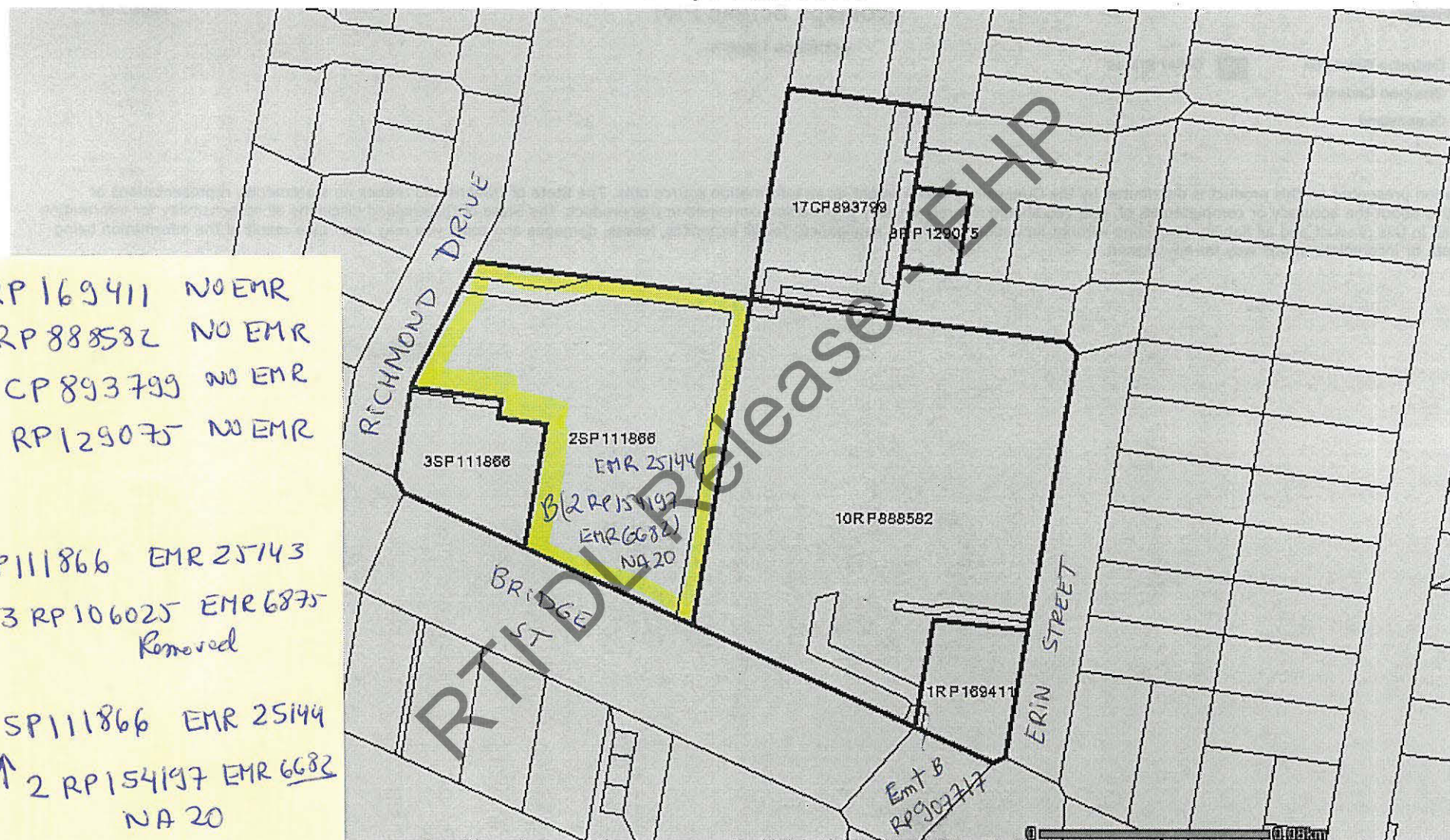
ecomaps

21/06/2007

Queensland Environmental Protection Agency

ecomaps Screen Plot

Page 1 of 2



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21/06/2007

- ☐ Cadastre Selection ☐ Other States
☒ Grouped Cadastre
☐ Queensland

ecomaps Screen Plot

ecomaps Layers

Queensland Environmental Protection Agency

Page 2 of 2

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RTI DL Release - QHP

Message *fax phone list*

To *Antane*
Date *18/8/98* Time *10:35 am*

While you were out.....

M *Mike Lisle -*
of *Toowoomba C.C.S.*
Phone No *(07) 4688 6834*

Telephoned	☒	Please Phone	☒
Called to see you	☐	Will Call Again	☐
Wants to see you	☐	URGENT	☐
Returned your call	☐		☐

Message *wants to talk about protocol etc*

*when answering people's questions
on contaminated land.*

OTEK - Bridge St - info in 1993. Caltex Gro

Let 23 RP106025 - Stephanie Williams

Received by *Sch4p4(6) Personal information*

