

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

92456



Philippines: ☐ 3rd Floor, JMT Bldg, ADB Ave, Ortigas Ctr, Pasig City, Metro Manila; Philippines Tel (+63) (2) 638 9686 Fax (+63) (2) 687 3518
 ACT: ☐ 2/54 Northbourne Ave, Canberra ACT 2601 Tel (02) 6248 7366 Fax (02) 6248 7157
 NSW: ☐ Level 1, 3 Rider Blvd, Rhodes NSW 2138 Tel (02) 8083 1600 Fax (02) 8765 0762
☐ Lot 101, 19 Warabrook Blvd, Warabrook NSW 2304 Tel (02) 4016 2300 Fax (02) 4016 2380
☐ 1/222 Berkeley Rd, Unanderra NSW 2526 Tel (02) 4272 6071 Fax (02) 4272 6075

QLD: ☐ 47 Doggett St, Newstead QLD 4006 Tel (07) 3608 2500 Fax (07) 3852 2805
 SA: ☐ Level 1, 2-3 Greenhill Rd, Wayville SA 5034 Tel (08) 7221 3500 Fax (08) 8172 1968
 TAS: ☐ Coffey Business Centre, 2 Melville St, Hobart TAS 7000 Tel (03) 6108 0100 Fax (03) 6108 0199
 VIC: ☐ 126 Trenerry Cres, Abbotsford VIC 3067 Tel (03) 9473 1400 Fax (03) 9473 1450
☐ Level 1, 23 West Fyans St, Newtown VIC 3220 Tel (03) 5215 4600 Fax (03) 5224 1368
 WA: ☐ 61 Duke St, Albany WA 6330 Tel (08) 9892 6400 Fax (08) 9892 6444
☐ Suite 2, 53 Burswood Rd, Burswood WA 6100 Tel (08) 9355 7100 Fax (08) 9355 7111
☐ Suite 3 & 4, 236 Naturaliste Tce, Dunsborough WA 6281 Tel (08) 9756 7869 Fax (08) 9756 8878

Project No: GEOTLCON24303AD

Task No:

Project Name: SICEEP Darling Harbour

Laboratory: MGT LabMark

Samplers Name: Priscilla Duss

Project Manager: Matthew Locke

Special Instructions:

NOTES: BTEX/TPH/PAH TO BE ANALYSED AS SUITE BA

Analysis Request Section

Lab. No.	Sample ID	Sample Location	Sample Depth	Sample Date	Time	Matrix (Soil ... etc)	Container Type & Preservative*	T-A-T (Specify)	BTEX/TPH/PAH (BA)	METALS (Cd, Pb, Cu, Zn, Ni, Cr, Mn, Fe, Al, Ag, As, Ba, Be, Bi, Br, Ca, Co, Cs, D, Dy, Eu, Ga, Ge, Hg, In, Ir, K, Li, Mg, Mo, Na, Nb, Os, Pd, P, Pt, Rb, S, Se, Si, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zr)	OCs/OPs	Wet	Asbestos	PH Field	PH Fox	NOTES
	CBH9 ASS5	5.0m		26/7/12		Soil		Standard								
	CBH9 ASS6	5.5m														
	TS3															
	TS3															
	RBI					Water										
	CBH10 (0.5-0.6m)					Soil										
	CBH10 (1.0-1.1m)															
	CBH10 (1.5-1.6m)															
	CBH10 (2.0-2.1m)															
	CBH10 (2.5-2.6m)															
	CBH10 (3.0-3.1m)															
	CBH10 (3.5-3.6m)															
	CBH10 (3.9-4.0m)															
	DUP5															
	DUP5A															

RELINQUISHED BY:

RECEIVED BY:

Signature: [Signature] Date: 26/7/12
 Company: Coffey Environments Time: 3:30 p.m.
 Signature: [Signature] Date: [Blank]
 Company: [Blank] Time: [Blank]

Signature: [Signature] Date: 26/7/12
 Company: MGT Time: 3:30
 Signature: [Signature] Date: 26/7/12
 Company: [Signature] Time: 16:15

Sample Receipt Advice: (Lab Use Only)

All Samples Received in Good Condition... ☒All Documentation is in Proper Order..... ☒Samples Received Properly Chilled..... ☒

Lab. Ref/Batch No.

346021

* Container Type & Preservation Codes: P - Plastic, G - Solvent Washed Acid Rinsed Glass Bottle, V - Vial, N - Nitric Acid Preserved
 C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice

Received: 270712 16:03 [Signature]

92457



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	☐ Lot 101, 19 Warabrook Blvd, Warabrook NSW 2304	Tel (02) 4016 2300	Fax (02) 4016 2380
	☐ 1/222 Berkeley Rd, Unanderra NSW 2526	Tel (02) 4272 6071	Fax (02) 4272 6075

QLD:	☐ 47 Doggett St, Newstead QLD 4006	Tel (07) 3608 2500.....	Fax (07) 3852 2805
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VIC:	☐ 126 Trenerry Cres, Abbotsford VIC 3067	Tel (03) 9473 1400.....	Fax (03) 9473 1450
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	☐ Suite 3 & 4, 236 Naturaliste Tce, Dunsborough WA 6281	Tel (08) 9756 7869.....	Fax (08) 9756 8878

Project No: SE07LCOV24303AD	Task No:
Project Name: SHEEP Durling Harbour	Laboratory: MGT LabMark
Samplers Name: Roger Duss	Project Manager: Matthew Locke
Special Instructions:	

NOTES: BTEX/TPH/PAH TO BE ANALYSED AS SITE B4

Analysis Request Section

[illegible]

RELINQUISHED BY:

RECEIVED BY:

Sample Receipt Advice: *(Lab Use Only)*

Signature: <i>[Signature]</i>	Date: <i>20/7/12</i>
Company: <i>Colley Environments</i>	Time: <i>3:30 p.m.</i>
Signature:	Date:
Company:	Time:

Signature: <i>S.W.</i>	Date: <i>26/7/12</i>
Company: <i>MGT Labmark</i>	Time: <i>3:30</i>
Signature: <i>[Signature]</i>	Date: <i>26/7/12</i>
Company: <i>MGT Labmark</i>	Time: <i>16:15</i>

All Samples Received in Good Condition . . . ☒

All Documentation is in Proper Order ☒

Samples Received Properly Chilled..... ☒

Lab. Ref/Batch No. 346021

* Container Type & Preservation Codes: P - Plastic, G - Solvent Washed Acid Rinsed Glass Bottle, V - Val, N - Nitric Acid Preserved
C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice

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CHAIN OF CUSTODY AND ANALYSIS REQUEST

ISSUE: 3

ISSUE DATE: 10/07/08

175 4-15 26/7/12

Coffey Geotechnics Pty Ltd Chatswood
Level 19, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: Matthew Locke

Report 346177-S
Client Reference SICEEP DARLING HARBOUR GEOTLCOV24303AD
Received Date Jul 31, 2012



Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Client Sample ID			CBH11_(1.0-1.1m)	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH11_ASS1_3.5m
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-JI23737	S12-JI23739	S12-JI23741	S12-JI23745
Date Sampled			Jul 26, 2012	Jul 26, 2012	Jul 26, 2012	Jul 26, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	-
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	-
TRH C15-C28	100	mg/kg	540	< 100	< 100	-
TRH C29-C36	100	mg/kg	280	< 100	< 100	-
TRH C10-36 (Total)	100	mg/kg	820	< 100	< 100	-
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	-
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	-
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	-
4-Bromofluorobenzene (surr.)	1	%	95	91	96	-
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	1.0	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	59	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	58	< 50	< 50	-
TRH >C16-C34	100	mg/kg	710	< 100	< 100	-
TRH >C34-C40	100	mg/kg	150	< 100	< 100	-
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	2.0	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	0.7	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	5.1	1.0	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	11	1.8	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	7.5	1.1	< 0.5	-
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	13	2.0	< 1	-
Benzo(g,h,i)perylene	0.5	mg/kg	3.2	0.5	< 0.5	-
Chrysene	0.5	mg/kg	6.7	1.3	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	18	3.5	< 0.5	-
Fluorene	0.5	mg/kg	2.7	0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	3.5	< 0.5	< 0.5	-

Client Sample ID			CBH11_(1.0-1.1m)	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH11_ASS1_3.5m
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-JI23737	S12-JI23739	S12-JI23741	S12-JI23745
Date Sampled			Jul 26, 2012	Jul 26, 2012	Jul 26, 2012	Jul 26, 2012
Test/Reference	LOR	Unit				
Naphthalene	0.5	mg/kg	1.0	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	16	3.2	< 0.5	-
Pyrene	0.5	mg/kg	18	3.7	< 0.5	-
Total PAH	1	mg/kg	110	19	< 1	-
2-Fluorobiphenyl (surr.)	1	%	89	89	106	-
p-Terphenyl-d14 (surr.)	1	%	96	95	118	-
Acid Sulphate Soils Field pH Test						
pH-F (Field pH test)	0.1	units	-	-	-	8.2
pH-FOX (Field pH Peroxide test)	0.1	units	-	-	-	2.6
Reaction Ratings		comment	-	-	-	volcanic
% Moisture	0.1	%	7.5	15	14	-
Asbestos			ASET Report	ASET Report	-	-

Client Sample ID			CBH11_ASS2_4.0m	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-JI23746	S12-JI23750	S12-JI23752	S12-JI23753
Date Sampled			Jul 26, 2012	Jul 27, 2012	Jul 27, 2012	Jul 27, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	-	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	-	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	-	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	-	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	-	< 100	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	-	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	-	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	-	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	-	91	92	91
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	-	< 1	< 1	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	0.7	0.9
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	0.6	0.9
Total PAH	1	mg/kg	-	< 1	1.3	2.3
2-Fluorobiphenyl (surr.)	1	%	-	101	96	97
p-Terphenyl-d14 (surr.)	1	%	-	108	103	110
Acid Sulphate Soils Field pH Test						
pH-F (Field pH test)	0.1	units	7.7	-	-	-
pH-FOX (Field pH Peroxide test)	0.1	units	3.0	-	-	-
Reaction Ratings		comment	high	-	-	-

Client Sample ID			CBH11_ASS2_4.0m	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-JI23746	S12-JI23750	S12-JI23752	S12-JI23753
Date Sampled			Jul 26, 2012	Jul 27, 2012	Jul 27, 2012	Jul 27, 2012
Test/Reference	LOR	Unit				
% Moisture	0.1	%	-	6.7	10	19
Asbestos			-	ASET Report	ASET Report	-

Client Sample ID			DUP7	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-JI23754	S12-JI23825	S12-JI23827	S12-JI23829
Date Sampled			Jul 27, 2012	Jul 27, 2012	Jul 27, 2012	Jul 27, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	< 100	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	< 100	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	88	93	88	85
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.8	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.9	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	1.4	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.8	< 0.5	1.6	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.8	< 0.5	1.7	< 0.5
Total PAH	1	mg/kg	1.6	< 1	7.6	< 1
2-Fluorobiphenyl (surr.)	1	%	99	98	100	95
p-Terphenyl-d14 (surr.)	1	%	107	104	98	96
% Moisture	0.1	%	19	11	13	15
Asbestos			-	ASET Report	ASET Report	-

Client Sample ID			CBH5A_(3.5-3.6m)	CBH5A_ASS1_3.5m	DUP8
Sample Matrix			Soil	Soil	Soil
mgt-LabMark Sample No.			S12-JI23830	S12-JI23835	S12-JI23837
Date Sampled			Jul 27, 2012	Jul 27, 2012	Jul 27, 2012
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	10	mg/kg	< 10	-	< 10
TRH C10-C14	50	mg/kg	< 50	-	< 50
TRH C15-C28	100	mg/kg	< 100	-	< 100
TRH C29-C36	100	mg/kg	< 100	-	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	-	< 100
BTEX					
Benzene	0.5	mg/kg	< 0.5	-	< 0.5
Toluene	0.5	mg/kg	< 0.5	-	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	-	< 1
o-Xylene	0.5	mg/kg	< 0.5	-	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	-	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	-	< 1.5
4-Bromofluorobenzene (surr.)	1	%	87	-	89
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *					
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100
Polyaromatic Hydrocarbons (PAH)					
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	1.0	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.9	-	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	1.4	-	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	0.9	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	2.1	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	1.1	-	< 0.5
Pyrene	0.5	mg/kg	2.0	-	< 0.5
Total PAH	1	mg/kg	9.4	-	< 1
2-Fluorobiphenyl (surr.)	1	%	98	-	94
p-Terphenyl-d14 (surr.)	1	%	98	-	94
Acid Sulphate Soils Field pH Test					
pH-F (Field pH test)	0.1	units	-	7.5	-
pH-FOX (Field pH Peroxide test)	0.1	units	-	5.7	-
Reaction Ratings		comme nt	-	high	-

Client Sample ID			CBH5A_(3.5-3.6m)	CBH5A_ASS1_3.5m	DUP8
Sample Matrix			Soil	Soil	Soil
mgt-LabMark Sample No.			S12-JI23830	S12-JI23835	S12-JI23837
Date Sampled			Jul 27, 2012	Jul 27, 2012	Jul 27, 2012
Test/Reference	LOR	Unit			
% Moisture	0.1	%	20	-	15

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
mgt-LabMark Suite 4			
Polyaromatic Hydrocarbons (PAH)	Sydney	Aug 02, 2012	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
BTEX	Sydney	Aug 02, 2012	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *	Sydney	Aug 02, 2012	14 Day
- Method: LM-LTM-ORG2010			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Aug 02, 2012	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
Acid Sulphate Soils Field pH Test	Sydney	Aug 02, 2012	7 Day
- Method: Acid Sulphate Soils Guideline Series			
% Moisture	Sydney	Aug 02, 2012	28 Day
- Method: E005 Moisture Content			
Asbestos	Sydney	Aug 02, 2012	

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Client Job No.: SICEEP DARLING HARBOUR GEOTLCOV24303AD

Order No.:
Report #: 346177
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jul 31, 2012 2:50 PM
Due: Aug 7, 2012
Priority: 5 Day
Contact Name: Matthew Locke

mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	mgt-LabMark Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
CBH11_(1.0-1.1m)	Jul 26, 2012		Soil	S12-JI23737	X	X			X
CBH11_(1.5-1.6m)	Jul 26, 2012		Soil	S12-JI23738			X		
CBH11_(2.0-2.1m)	Jul 26, 2012		Soil	S12-JI23739	X	X			X
CBH11_(2.5-2.6m)	Jul 26, 2012		Soil	S12-JI23740			X		
CBH11_(3.0-3.1m)	Jul 26, 2012		Soil	S12-JI23741	X				X

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Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	mgt-LabMark Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
CBH11_(3.5-3.6m)	Jul 26, 2012		Soil	S12-JI23742			X		
CBH11_(3.9-4.0m)	Jul 26, 2012		Soil	S12-JI23743			X		
DUP6	Jul 26, 2012		Soil	S12-JI23744			X		
CBH11_ASS1_3.5m	Jul 26, 2012		Soil	S12-JI23745				X	
CBH11_ASS2_4.0m	Jul 26, 2012		Soil	S12-JI23746				X	
TB4	Jul 27, 2012		Soil	S12-JI23747			X		
TS4	Jul 27, 2012		Soil	S12-JI23748			X		

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Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	mgt-LabMark Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
CBH7A_(0.5-0.6m) 1	Jul 27, 2012		Soil	S12-JI23749			X		
CBH7A_(1.0-1.1m) 1	Jul 27, 2012		Soil	S12-JI23750	X	X			X
CBH7A_(1.5-1.6m) 1	Jul 27, 2012		Soil	S12-JI23751			X		
CBH7A_(2.0-2.1m)	Jul 27, 2012		Soil	S12-JI23752	X	X			X
CBH7A_(2.9-3.0m)	Jul 27, 2012		Soil	S12-JI23753	X				X
DUP7	Jul 27, 2012		Soil	S12-JI23754	X				X
CBH7A_(3.5-3.6m)	Jul 27, 2012		Soil	S12-JI23755			X		

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mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	mgt-LabMark Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
CBH7A_(4.0-4.1m)	Jul 27, 2012		Soil	S12-JI23756			X		
CBH7A_(4.5-4.6m)	Jul 27, 2012		Soil	S12-JI23757			X		
CBH7A_(5.0-5.1m)	Jul 27, 2012		Soil	S12-JI23758			X		
CBH7A_(5.4-5.5m)	Jul 27, 2012		Soil	S12-JI23759			X		
CBH7A_(5.9-6.0m)	Jul 27, 2012		Soil	S12-JI23760			X		
CBH7A_ASS1_5.0m	Jul 27, 2012		Soil	S12-JI23761			X		

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Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	mgt-LabMark Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
CBH7A_ASS2_5.5m	Jul 27, 2012		Soil	S12-JI23762			X		
CBH7A_ASS3_6.0m	Jul 27, 2012		Soil	S12-JI23763			X		
CBH7A_ASS3_4.0m	Jul 27, 2012		Soil	S12-JI23823			X		
CBH5A_(0.4-0.5m)	Jul 27, 2012		Soil	S12-JI23824			X		
CBH5A_(1.0-1.1m)_1	Jul 27, 2012		Soil	S12-JI23825	X	X			X
CBH5A_(1.5-1.6m)_1	Jul 27, 2012		Soil	S12-JI23826			X		

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mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	mgt-LabMark Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
CBH5A_(2.0-2.1m)_1	Jul 27, 2012		Soil	S12-JI23827	X	X			X
CBH5A_(2.5-2.6m)	Jul 27, 2012		Soil	S12-JI23828			X		
CBH5A_(3.0-3.1m)	Jul 27, 2012		Soil	S12-JI23829	X				X
CBH5A_(3.5-3.6m)	Jul 27, 2012		Soil	S12-JI23830	X				X
CBH5A_(4.0-4.1m)	Jul 27, 2012		Soil	S12-JI23831			X		
CBH5A_(4.5-4.6m)	Jul 27, 2012		Soil	S12-JI23832			X		

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mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	mgt-LabMark Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
CBH5A_(5.0-5.1m)	Jul 27, 2012		Soil	S12-JI23833			X		
CBH5A_(5.9-6.0m)	Jul 27, 2012		Soil	S12-JI23834			X		
CBH5A_ASS1_3.5m	Jul 27, 2012		Soil	S12-JI23835				X	
CBH5A_ASS2_6.0m	Jul 27, 2012		Soil	S12-JI23836			X		
DUP8	Jul 27, 2012		Soil	S12-JI23837	X				X
TS4LAB	Jul 27, 2012		Soil	S12-JI23838			X		

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis, unless otherwise stated.
- Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001)

For samples received on the last day of holding time, notification of testing requirements should have been received at least

6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as an RPD

UNITS

mg/kg: milligrams per Kilogram

µg/L: micrograms per litre

ppb: Parts per billion

org/100mL: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/L: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Nephelometric Turbidity Units

TERMS

Dry:	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR:	Limit Of Reporting.
SPIKE:	Addition of the analyte to the sample and reported as percentage recovery.
RPD:	Relative Percent Difference between two Duplicate pieces of analysis.
LCS:	Laboratory Control Sample - reported as percent recovery.
CRM:	Certified Reference Material - reported as percent recovery.
Method Blank:	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate:	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate:	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate:	A second piece of analysis from a sample outside of the client's batch of samples but run within the laboratory batch of analysis.
Batch SPIKE:	Spike recovery reported on a sample from outside of the client's batch of samples but run within the laboratory batch of analysis.
USEPA:	U.S Environmental Protection Agency
APHA:	American Public Health Association
ASLP:	Australian Standard Leaching Procedure (AS4439.3)
TCLP:	Toxicity Characteristic Leaching Procedure
COC:	Chain Of Custody
SRA:	Sample Receipt Advice
CP:	Client Parent - QC was performed on samples pertaining to this report
NC:	Non-Client Parent - QC was performed on samples not pertaining to this report, however QC is representative of the sequence or batch that client samples were analysed within

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample
- Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data below the LOR with a positive RPD - eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	mg/kg	< 10			10	Pass	
TRH C10-C14	mg/kg	< 50			50	Pass	
TRH C15-C28	mg/kg	< 100			100	Pass	
TRH C29-C36	mg/kg	< 100			100	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.5			0.5	Pass	
Total m+p-Xylenes	mg/kg	< 1			1	Pass	
o-Xylene	mg/kg	< 0.5			0.5	Pass	
Xylenes(ortho.meta and para)	mg/kg	< 1.5			1.5	Pass	
Total BTEX	mg/kg	< 1.5			1.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions * LM-LTM-ORG2010							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/kg	< 1			1	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	%	101			70-130	Pass	
TRH C10-C14	%	81			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	100			70-130	Pass	
Toluene	%	101			70-130	Pass	
Ethylbenzene	%	102			70-130	Pass	
Total m+p-Xylenes	%	102			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
o-Xylene	%	101			70-130	Pass	
Xylenes(ortho.meta and para)	%	101			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions * LM-LTM-ORG2010							
Naphthalene	%	84			70-130	Pass	
TRH C6-C10	%	101			70-130	Pass	
TRH >C10-C16	%	83			70-130	Pass	
LCS - % Recovery							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	106			70-130	Pass	
Acenaphthylene	%	99			70-130	Pass	
Anthracene	%	97			70-130	Pass	
Benz(a)anthracene	%	122			70-130	Pass	
Benzo(a)pyrene	%	92			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	%	102			70-130	Pass	
Benzo(g,h,i)perylene	%	76			70-130	Pass	
Chrysene	%	88			70-130	Pass	
Dibenz(a,h)anthracene	%	86			70-130	Pass	
Fluoranthene	%	106			70-130	Pass	
Fluorene	%	106			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	88			70-130	Pass	
Naphthalene	%	103			70-130	Pass	
Phenanthrene	%	98			70-130	Pass	
Pyrene	%	101			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	S12-JI23737	CP	%	105			70-130	Pass	
Toluene	S12-JI23737	CP	%	101			70-130	Pass	
Ethylbenzene	S12-JI23737	CP	%	102			70-130	Pass	
Total m+p-Xylenes	S12-JI23737	CP	%	101			70-130	Pass	
o-Xylene	S12-JI23737	CP	%	101			70-130	Pass	
Xylenes(ortho.meta and para)	S12-JI23737	CP	%	101			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1					
Naphthalene	S12-JI23737	CP	%	118			70-130	Pass	
TRH C6-C10	S12-JI23737	CP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S	NCP	%	95			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S12-JI23825	CP	%	80			70-130	Pass	
TRH C10-C14	S12-JI23825	CP	%	82			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S12-JI23825	CP	%	89			70-130	Pass	
Toluene	S12-JI23825	CP	%	88			70-130	Pass	
Ethylbenzene	S12-JI23825	CP	%	90			70-130	Pass	
Total m+p-Xylenes	S12-JI23825	CP	%	90			70-130	Pass	
o-Xylene	S12-JI23825	CP	%	91			70-130	Pass	
Xylenes(ortho.meta and para)	S12-JI23825	CP	%	90			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1					
Naphthalene	S12-JI23825	CP	%	76			70-130	Pass	
TRH C6-C10	S12-JI23825	CP	%	79			70-130	Pass	
TRH >C10-C16	S12-JI23825	CP	%	84			70-130	Pass	
Spike - % Recovery									
Polyaromatic Hydrocarbons (PAH)				Result 1					
Acenaphthene	S12-JI23825	CP	%	105			70-130	Pass	
Acenaphthylene	S12-JI23825	CP	%	103			70-130	Pass	
Anthracene	S12-JI23825	CP	%	100			70-130	Pass	
Benz(a)anthracene	S12-JI23825	CP	%	113			70-130	Pass	
Benzo(a)pyrene	S12-JI23825	CP	%	81			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-JI23825	CP	%	87			70-130	Pass	
Benzo(g,h,i)perylene	S12-JI23825	CP	%	82			70-130	Pass	
Chrysene	S12-JI23825	CP	%	103			70-130	Pass	
Dibenz(a,h)anthracene	S12-JI23825	CP	%	73			70-130	Pass	
Fluoranthene	S12-JI23825	CP	%	110			70-130	Pass	
Fluorene	S12-JI23825	CP	%	102			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S12-JI23825	CP	%	74			70-130	Pass	
Naphthalene	S12-JI23825	CP	%	104			70-130	Pass	
Phenanthrene	S12-JI23825	CP	%	102			70-130	Pass	
Pyrene	S12-JI23825	CP	%	110			70-130	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S12-JI23737	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S12-JI23737	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S12-JI23737	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total m+p-Xylenes	S12-JI23737	CP	mg/kg	< 1	< 1	<1	30%	Pass	
o-Xylene	S12-JI23737	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes(ortho.meta and para)	S12-JI23737	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Total BTEX	S12-JI23737	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD			
Naphthalene	S12-JI23737	CP	mg/kg	1.0	1.0	4.0	30%	Pass	
TRH C6-C10	S12-JI23737	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S12-JI23737	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S12-JI23825	CP	mg/kg	< 50	< 50	3.0	30%	Pass	
TRH C15-C28	S12-JI23825	CP	mg/kg	< 100	< 100	7.0	30%	Pass	
TRH C29-C36	S12-JI23825	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total m+p-Xylenes	S12-JI23825	CP	mg/kg	< 1	< 1	<1	30%	Pass	
o-Xylene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes(ortho.meta and para)	S12-JI23825	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Total BTEX	S12-JI23825	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD			
Naphthalene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD			
TRH C6-C10	S12-JI23825	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S12-JI23825	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S12-JI23825	CP	mg/kg	< 50	< 50	2.0	30%	Pass	
TRH >C16-C34	S12-JI23825	CP	mg/kg	< 100	< 100	5.0	30%	Pass	
TRH >C34-C40	S12-JI23825	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD			
Acenaphthene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-JI23825	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Benzo(g,h,i)perylene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S12-JI23825	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Comments

Please note: Asbestos was analysed by ASET. Report reference ASET30541/33721/1-6. NATA accreditation number 14484.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.

Authorised By

Jean Heng	Client Services
Laura Schofield	Senior Analyst-Volatile (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

mgt-LabMark shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall mgt-LabMark be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

92458



Philippines: ☐ 3rd Floor, JMT Bldg, ADB Ave, Ortigas Ctr, Pasig City, Metro Manila; Philippines Tel (+63) (2) 638 9686 Fax (+63) (2) 687 3518

ACT: ☐ 2/54 Northbourne Ave, Canberra ACT 2601 Tel (02) 6248 7366 Fax (02) 6248 7157

NSW: ☐ Level 19, 799 Pacific Hwy, Chatswood Tel (02) 8083 1000 Fax (02) 8765 0762

☐ Lot 101, 19 Warabrook Blvd, Warabrook NSW 2304 Tel (02) 4016 2300 Fax (02) 4016 2380

☐ 1/222 Berkeley Rd, Unanderra NSW 2526 Tel (02) 4272 6071 Fax (02) 4272 6075

QLD: ☐ 47 Doggett St, Newstead QLD 4006 Tel (07) 3608 2500 Fax (07) 3852 2805

SA: ☐ Level 1, 2-3 Greenhill Rd, Wayville SA 5034 Tel (08) 7221 3500 Fax (08) 8172 1968

TAS: ☐ Coffey Business Centre, 2 Melville St, Hobart TAS 7000 Tel (03) 6108 0100 Fax (03) 6108 0199

VIC: ☐ 126 Trenerry Cres, Abbotsford VIC 3067 Tel (03) 9473 1400 Fax (03) 9473 1450

☐ Level 1, 23 West Fyans St, Newtown VIC 3220 Tel (03) 5215 4600 Fax (03) 5224 1368

WA: ☐ 61 Duke St, Albany WA 6330 Tel (08) 9892 6400 Fax (08) 9892 6444

☐ Suite 2, 53 Burswood Rd, Burswood WA 6100 Tel (08) 9355 7100 Fax (08) 9355 7111

☐ Suite 3 & 4, 236 Naturaliste Tce, Dunsborough WA 6281 Tel (08) 9756 7869 Fax (08) 9756 8878

Project No: GEOTLCOV24303AD

Task No:

Project Name: SICEEP Darling Harbour

Laboratory: MGT LabMark

Samplers Name: Priya Dass

Project Manager: Matthew Locke

Special Instructions:

NOTE: BTEX/TPH/PAH TO BE ANALYSED AS SUITE B4

Analysis Request Section

Lab. No.	Sample ID	Sample Location	Sample Depth	Sample Date	Time	Matrix (Soil ... etc)	Container Type & Preservative*	T-A-T (Specify)	BTX/TPH	METALS	PAHs	OCs / OPs	Asbestos	PH Field / PH Tox	NOTES
	CBH11 (0.5-0.6m)			26/7/12		Soil		Standard							
	CBH11 (1.0-1.1m)														
	CBH11 (1.5-1.6m)														
	CBH11 (2.0-2.1m)														
	CBH11 (2.5-2.6m)														
	CBH11 (3.0-3.1m)														
	CBH11 (3.5-3.6m)														
	CBH11 (3.9-4.0m)														
	DUP6														
	CBH11_ASS 3.5m														
	CBH11_ASS2 4.0m														
	TB4			27/7/12											
	TS4														
	CBH7A (0.5-0.6m)														
	CBH7A (1.0-1.1m)														

RELINQUISHED BY:

RECEIVED BY:

Signature: *[Signature]* Date: 27/7/12

Company: Coffey Environments Time: 3:35pm

Signature: _____ Date: _____

Company: _____ Time: _____

Signature: *[Signature]* Date: 27/7/12

Company: MGT LabMark Time: 3:35pm

Signature: *[Signature]* Date: 31/07/12

Company: *[Signature]* Time: 14:50

Sample Receipt Advice: (Lab Use Only)

All Samples Received in Good Condition ... ☐All Documentation is in Proper Order ☐Samples Received Properly Chilled ☐

Lab. Ref/Batch No.

346177

* Container Type & Preservation Codes: P - Plastic, G - Solvent Washed Acid Rinsed Glass Bottle, V - Vial, N - Nitric Acid Preserved

C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

92459



Philippines: ☐ 3rd Floor, JMT Bldg, ADB Ave, Ortigas Ctr, Pasig City, Metro Manila; Philippines Tel (+63) (2) 638 9686 Fax (+63) (2) 687 3518

ACT: ☐ 2/54 Northbourne Ave, Canberra ACT 2601 Tel (02) 6248 7366 Fax (02) 6248 7157

NSW: ☒ Level 19, 340 Pacific Hwy, Chatswood Tel (02) 8083 1600 Fax (02) 8765 0762

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☐ Suite 3 & 4, 236 Naturaliste Tce, Dunsborough WA 6281 Tel (08) 9756 7869 Fax (08) 9756 8878

Project No: GEOTLCOV24303AD

Task No:

Project Name: SICEEP Darling Harbour

Laboratory: MGT LabMark

Samplers Name: Priya Dass

Project Manager: Matthew Locke

Special Instructions:

Analysis Request Section

Lab. No.	Sample ID	Sample Location	Sample Depth	Sample Date	Time	Matrix (Soil ... etc)	Container Type & Preservative*	T-A-T (Specify)	NOTES
	CBH7A(1.5-1.6m)			27/7/12		Soil		Standard	
	CBH7A(2.0-2.1m)								
	CBH7A(2.9-3.0m)								
	DUP7								
	DUP7A								
	CBH7A(3.5-3.6m)								
	CBH7A(4.0-4.1m)								
	CBH7A(4.5-4.6m)								
	CBH7A(5.0-5.1m)								
	CBH7A(5.4-5.5m)								
	CBH7A(5.9-6.0m)								
	CBH7A ASS 5.0m								
	CBH7A ASS 5.5m								
	CBH7A ASS 6.0m								
	CBH7A ASS 6.5m								
	CBH7A ASS 7.0m								

RELINQUISHED BY:

RECEIVED BY:

Signature: *[Signature]* Date: 27/7/12
 Company: Coffey Environments Time: 3:35 p.m.

Signature: _____ Date: _____
 Company: _____ Time: _____

Signature: *[Signature]* Date: 27/2/12
 Company: MGT LabMark Time: 3:35 PM

Signature: *[Signature]* Date: 31/07/12
 Company: MGT LabMark Time: 14:50

Sample Receipt Advice: (Lab Use Only)

All Samples Received in Good Condition ... ☐

All Documentation is in Proper Order ☐

Samples Received Properly Chilled ☐

Lab. Ref/Batch No.

346177

* Container Type & Preservation Codes: P - Plastic, G - Solvent Washed Acid Rinsed Glass Bottle, V - Vial, N - Nitric Acid Preserved
 C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

92460-3



Philippines: ☐ 3rd Floor, JMT Bldg, ADB Ave, Ortigas Ctr, Pasig City, Metro Manila, Philippines Tel (+63) (2) 638 9686 Fax (+63) (2) 687 3518

ACT: ☐ 2/54 Northbourne Ave, Canberra ACT 2601 Tel (02) 6248 7366 Fax (02) 6248 7157

NSW: ☒ Level 1, 19 Warabrook Blvd, Warabrook NSW 2304 Tel (02) 4016 2300 Fax (02) 4016 2380

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☐ Level 1, 23 West Fyans St, Newtown VIC 3220 Tel (03) 5215 4600 Fax (03) 5224 1368

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☐ Suite 2, 53 Burswood Rd, Burswood WA 6100 Tel (08) 9355 7100 Fax (08) 9355 7111

☐ Suite 3 & 4, 236 Naturaliste Tce, Dunsborough WA 6281 Tel (08) 9756 7869 Fax (08) 9756 8878

Project No: GEOTLCOV24303AD

Task No:

Project Name: SICEEP Darling Harbour

Laboratory: MGT LabMark

Samplers Name: Priya Dass

Project Manager: Matthew Locke

Special Instructions:

NOTE: BTEX/TPH/PAH TO BE ANALYSED AS SUITE BA

Analysis Request Section

Lab. No.	Sample ID	Sample Location	Sample Depth	Sample Date	Time	Matrix (Soil ... etc)	Container Type & Preservative*	T-A-T (Specify)	Analysis Request Section	NOTES
	CBH5A (0.4-0.5m)							Standard	BTEX/TPH	
	CBH5A (1.0-1.1m) 1								PAHs	
	CBH5A (1.5-1.6m) 1								OCs/OPS	
	CBH5A (2.0-2.1m) 1								Asbestos	
	CBH5A (2.5-2.6m)								pH Field	
	CBH5A (3.0-3.1m)									
	CBH5A (3.5-3.6m)									
	CBH5A (4.0-4.1m)									
	CBH5A (4.5-4.6m)									
	CBH5A (5.0-5.1m)									
	CBH5A (5.4-6.0m)									
	DUP8									
	CBH5A ASS1 3.5m									
	CBH5A ASS2 6.0m									

RELINQUISHED BY:

RECEIVED BY:

Signature: *[Signature]* Date: 27/7/12

Company: Coffey Environments Time: 3:35 p.m.

Signature: _____ Date: _____

Company: _____ Time: _____

Signature: *[Signature]* Date: 27/7/12

Company: MGT Labmark Time: 3:35 p.m.

Signature: *[Signature]* Date: 31/07/12

Company: *[Signature]* Time: 14:50

Sample Receipt Advice: (Lab Use Only)

All Samples Received in Good Condition ... ☐All Documentation is in Proper Order ☐Samples Received Properly Chilled ☐

Lab. Ref/Batch No.

346177

* Container Type & Preservation Codes: P - Plastic, G - Solvent Washed Acid Rinsed Glass Bottle, V - Vial, N - Nitric Acid Preserved

C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice

From: Priya Dass [mailto:Priyaranjani_Dass@coffey.com]
Sent: Sunday, 29 July 2012 12:28 PM
To: Sample Receipt 1 Syd; Matthew Locke
Cc: Enviro Syd; Bob Symons
Subject: RE: CBH7 4.5-46 not received 2 x CBH5 4.5-4.6 received SICEEP DARLING HARBOUR GEOTLCOV24303AD

Hi Ellen,

Sorry I must have labelled the jars in a hurry.

Yes you are right:

Sample JL23757 is actually CBH7_(4.5-4.6m) – the red gravelly clay sample and;
Sample JL23832 is CBH5_(4.5-4.6m) – the dark grey sample.

I was unable to complete the COC with the extra samples at the time of lab pick-up and is now on the completed COC and may be emailed to you with the analysis request.

Regards,
Priya.

gnd # 346177

Priya Dass
Environmental Scientist
Coffey Environments
Level 19, Tower B - Citadel Tower
799 Pacific Highway, Chatswood NSW 2067
T +61 2 9406 1000 F +61 2 9406 1004 M +61 406 384 883
coffey.com

From: Sample Receipt 1 Syd [mailto:sample_syd_1@mgtlabmark.com.au]
Sent: Saturday, 28 July 2012 2:58 PM
To: Matthew Locke
Cc: Priya Dass; Enviro Syd; Bob Symons
Subject: CBH7 4.5-46 not received 2 x CBH5 4.5-4.6 received SICEEP DARLING HARBOUR GEOTLCOV24303AD

Hi Matt,
Upon the receipt of sample for Fridays SICEEP DARLING HARBOUR GEOTLCOV24303AD sample CBH7 4.5-4.6m was not received whilst there was 2 x CBH5 4.5-4.6 received; can you confirm which sample ID is that of one or the other? Apologies I cannot provide photos at this time they are samples (JL23757) suspected to be CBH7_(4.5-4.6) the red colour sample and CBH5 4.5-4.6 (JL23832) is the dark grey sample, I had compared them to the depths at 4.0-4.1m can you confirm if these details are correct.

Also there were a few extra samples received not on the COC CBH7_ASS_3.0m, CBH5 series & 2 CBH5_ASS (13 samples) and DUP 8 details of the additions will be on the summary.

Bob,
If required can you provide pictures of the above for easier reference if required.

Thank you

It is essential to include all correspondence to: enviro_syd@mgtlabmark.com.au

Ellen Wandala Gamage

Coffey Geotechnics Pty Ltd Chatswood
Level 19, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: Matthew Locke

Report 346471-S
Client Reference SICEEP DARLING HARBOUR GEOTLCOV24303AD
Received Date Jul 31, 2012



Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or
measurements included in this document are traceable
to Australian/national standards.

Client Sample ID			CBH1_(0.5-0.6m)	CBH1_(1.0-1.1m)	DUP11	CBH1_(2.0-2.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-Au00060	S12-Au00061	S12-Au00062	S12-Au00064
Date Sampled			Jul 31, 2012	Jul 31, 2012	Jul 31, 2012	Jul 31, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	< 10	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	< 50	< 50	< 50
TRH C15-C28	100	mg/kg	160	< 100	< 100	< 100
TRH C29-C36	100	mg/kg	110	< 100	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	270	< 100	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	95	94	95	91
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	250	110	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	1.8	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	4.6	1.5	1.6	< 0.5
Benzo(a)pyrene	0.5	mg/kg	4.8	1.8	1.8	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	7.4	2.8	2.7	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	2.6	1.0	0.9	< 0.5
Chrysene	0.5	mg/kg	4.3	1.4	1.4	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	9.9	2.6	2.6	< 0.5
Fluorene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	2.0	0.8	0.7	< 0.5

Client Sample ID			CBH1_(0.5-0.6m)	CBH1_(1.0-1.1m)	DUP11	CBH1_(2.0-2.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-Au00060	S12-Au00061	S12-Au00062	S12-Au00064
Date Sampled			Jul 31, 2012	Jul 31, 2012	Jul 31, 2012	Jul 31, 2012
Test/Reference	LOR	Unit				
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	7.7	1.7	1.5	< 0.5
Pyrene	0.5	mg/kg	9.6	2.6	2.5	< 0.5
Total PAH	1	mg/kg	56	16	16	< 1
2-Fluorobiphenyl (surr.)	1	%	75	106	98	98
p-Terphenyl-d14 (surr.)	1	%	73	111	101	102
% Moisture	0.1	%	11	9.2	9.6	9.9
Asbestos			-	ASET report	-	-

Client Sample ID			CBH1_ASS2_3 .0m	CBH1_ASS3_4 .0m	CBH2B (1.0- 1.1m)	CBH2B (2.0- 2.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-Au00074	S12-Au00075	S12-Au00080	S12-Au00082
Date Sampled			Jul 31, 2012	Jul 31, 2012	Jul 31, 2012	Jul 31, 2012
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	10	mg/kg	-	-	< 10	< 10
TRH C10-C14	50	mg/kg	-	-	< 50	< 50
TRH C15-C28	100	mg/kg	-	-	< 100	< 100
TRH C29-C36	100	mg/kg	-	-	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	-	-	< 100	< 100
BTEX						
Benzene	0.5	mg/kg	-	-	< 0.5	< 0.5
Toluene	0.5	mg/kg	-	-	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	-	-	< 1	< 1
o-Xylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	-	-	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	-	-	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	-	-	90	86
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	130	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	1.1	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	1.3	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	-	-	1.8	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	0.6	< 0.5
Chrysene	0.5	mg/kg	-	-	1.0	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	1.0	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	0.7	< 0.5
Pyrene	0.5	mg/kg	-	-	1.2	< 0.5
Total PAH	1	mg/kg	-	-	8.7	< 1
2-Fluorobiphenyl (surr.)	1	%	-	-	95	97
p-Terphenyl-d14 (surr.)	1	%	-	-	99	104
Acid Sulphate Soils Field pH Test						
pH-F (Field pH test)	0.1	units	7.5	7.0	-	-
pH-FOX (Field pH Peroxide test)	0.1	units	7.1	5.9	-	-
Reaction Ratings		comme nt	Low	Low	-	-

Client Sample ID			CBH1_ASS2_3 .0m	CBH1_ASS3_4 .0m	CBH2B_(1.0- 1.1m)	CBH2B_(2.0- 2.1m)
Sample Matrix			Soil	Soil	Soil	Soil
mgt-LabMark Sample No.			S12-Au00074	S12-Au00075	S12-Au00080	S12-Au00082
Date Sampled			Jul 31, 2012	Jul 31, 2012	Jul 31, 2012	Jul 31, 2012
Test/Reference	LOR	Unit				
% Moisture	0.1	%	-	-	12	9.0

Client Sample ID			CBH2B_(2.5-2.6m)	CBH2B_(3.5-3.6m)	CBH2B_(4.5-4.6m)
Sample Matrix			Soil	Soil	Soil
mgt-LabMark Sample No.			S12-Au00083	S12-Au00085	S12-Au00087
Date Sampled			Jul 31, 2012	Jul 31, 2012	Jul 31, 2012
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	10	mg/kg	< 10	< 10	< 10
TRH C10-C14	50	mg/kg	< 50	54	< 50
TRH C15-C28	100	mg/kg	< 100	2300	< 100
TRH C29-C36	100	mg/kg	< 100	1600	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	4000	< 100
BTEX					
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Xylenes(ortho.meta and para)	1.5	mg/kg	< 1.5	< 1.5	< 1.5
Total BTEX	1.5	mg/kg	< 1.5	< 1.5	< 1.5
4-Bromofluorobenzene (surr.)	1	%	106	107	107
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *					
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	130	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	130	< 50
TRH >C16-C34	100	mg/kg	110	4000	150
TRH >C34-C40	100	mg/kg	< 100	530	< 100
Volatile Organic Compounds (VOC)					
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	5	mg/kg	< 5	< 5	< 5
2-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Hexanone	5	mg/kg	< 5	< 5	< 5
2-Pentanone	5	mg/kg	< 5	< 5	< 5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	5	mg/kg	< 5	< 5	< 5
Benzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			CBH2B_(2.5-2.6m)	CBH2B_(3.5-3.6m)	CBH2B_(4.5-4.6m)
Sample Matrix			Soil	Soil	Soil
mgt-LabMark Sample No.			S12-Au00083	S12-Au00085	S12-Au00087
Date Sampled			Jul 31, 2012	Jul 31, 2012	Jul 31, 2012
Test/Reference	LOR	Unit			
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromomethane	5	mg/kg	< 5	< 5	< 5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroethane	5	mg/kg	< 5	< 5	< 5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloromethane	5	mg/kg	< 5	< 5	< 5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	5	mg/kg	< 5	< 5	< 5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Methylene Chloride	5	mg/kg	< 5	< 5	< 5
n-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
o-Xylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
tert-Butylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1	< 1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	5	mg/kg	< 5	< 5	< 5
Vinyl acetate	5	mg/kg	< 5	< 5	< 5
Vinyl chloride	2	mg/kg	< 2	< 2	< 2
Toluene-d8 (surr.)	1	%	99	99	99
4-Bromofluorobenzene (surr.)	1	%	106	107	107
1.2-Dichloroethane-d4 (surr.)	1	%	108	108	106
Polyaromatic Hydrocarbons (PAH)					
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	0.6
Benz(a)anthracene	0.5	mg/kg	1.1	39	1.9
Benzo(a)pyrene	0.5	mg/kg	1.7	< 0.5	2.4
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	2.8	62	3.6
Benzo(g,h,i)perylene	0.5	mg/kg	1.1	< 0.5	1.2
Chrysene	0.5	mg/kg	1.2	< 0.5	1.8
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.9	94	4.9
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			CBH2B_(2.5-2.6m)	CBH2B_(3.5-3.6m)	CBH2B_(4.5-4.6m)
Sample Matrix			Soil	Soil	Soil
mgt-LabMark Sample No.			S12-Au00083	S12-Au00085	S12-Au00087
Date Sampled			Jul 31, 2012	Jul 31, 2012	Jul 31, 2012
Test/Reference	LOR	Unit			
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.8	< 0.5	1.0
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	51	1.5
Pyrene	0.5	mg/kg	1.9	84	4.9
Total PAH	1	mg/kg	13	330	24
2-Fluorobiphenyl (surr.)	1	%	92	111	97
p-Terphenyl-d14 (surr.)	1	%	96	120	101
Semivolatile Organic Compounds (SVOC)					
Comments				G01	
2-Chloronaphthalene	0.5	mg/kg	< 0.5	< 5	< 0.5
2-Chlorophenol	0.5	mg/kg	< 0.5	< 5	< 0.5
2-Methylnaphthalene	0.5	mg/kg	< 0.5	< 5	< 0.5
2-Methylphenol (o-Cresol)	0.5	mg/kg	< 0.5	< 5	< 0.5
2-Naphthylamine	0.5	mg/kg	< 0.5	< 5	< 0.5
2-Nitroaniline	1	mg/kg	< 1	< 10	< 1
2-Nitrophenol	0.5	mg/kg	< 0.5	< 5	< 0.5
3&4-Methylphenol (m&p-Cresol)	1	mg/kg	< 1	< 10	< 1
3-Methylcholanthrene	0.5	mg/kg	< 0.5	< 5	< 0.5
4-Aminobiphenyl	0.5	mg/kg	< 0.5	< 5	< 0.5
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	< 5	< 0.5
4-Chloro-3-methylphenol	0.5	mg/kg	< 0.5	< 5	< 0.5
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	< 5	< 0.5
4.4'-DDD	0.5	mg/kg	< 0.5	< 5	< 0.5
4.4'-DDE	0.5	mg/kg	< 0.5	< 5	< 0.5
4.4'-DDT	1	mg/kg	< 1	< 10	< 1
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acetophenone	0.5	mg/kg	< 0.5	< 5	< 0.5
Aldrin	0.5	mg/kg	< 0.5	< 5	< 0.5
Aniline	0.5	mg/kg	< 0.5	< 5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	0.6
Benz(a)anthracene	0.5	mg/kg	1.1	39	1.9
Benzo(a)pyrene	0.5	mg/kg	1.7	< 0.5	2.4
Benzo(g,h,i)perylene	0.5	mg/kg	1.1	< 0.5	1.2
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	< 5	< 0.5
Bis(2-ethylhexyl)phthalate	5	mg/kg	< 5	< 50	< 5
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	< 5	< 0.5
Chlorpyrifos	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	1.2	< 0.5	1.8
Coumaphos	0.5	mg/kg	< 0.5	< 0.5	< 0.5
d-BHC	0.5	mg/kg	< 0.5	< 5	< 0.5
Demeton-O	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Demeton-S	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	< 5	< 0.5
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	< 5	< 0.5
Diazinon	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibenzofuran	0.5	mg/kg	< 0.5	< 5	< 0.5
Dichlorvos	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			CBH2B_(2.5-2.6m)	CBH2B_(3.5-3.6m)	CBH2B_(4.5-4.6m)
Sample Matrix			Soil	Soil	Soil
mgt-LabMark Sample No.			S12-Au00083	S12-Au00085	S12-Au00087
Date Sampled			Jul 31, 2012	Jul 31, 2012	Jul 31, 2012
Test/Reference	LOR	Unit			
Dieldrin	0.5	mg/kg	< 0.5	< 5	< 0.5
Diethyl phthalate	0.5	mg/kg	< 0.5	< 5	< 0.5
Dimethoate	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dimethyl phthalate	0.5	mg/kg	< 0.5	< 5	< 0.5
Diphenylamine	0.5	mg/kg	< 0.5	< 5	< 0.5
Disulfoton	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Endosulfan sulphate	0.5	mg/kg	< 0.5	< 5	< 0.5
Endrin	0.5	mg/kg	< 0.5	< 5	< 0.5
Endrin aldehyde	0.5	mg/kg	< 0.5	< 5	< 0.5
Endrin ketone	0.5	mg/kg	< 0.5	< 5	< 0.5
Ethoprop	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fenitrothion	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fensulfothion	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fenthion	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.9	94	4.9
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
g-BHC (Lindane)	0.5	mg/kg	< 0.5	< 5	< 0.5
Heptachlor	0.5	mg/kg	< 0.5	< 5	< 0.5
Heptachlor epoxide	0.5	mg/kg	< 0.5	< 5	< 0.5
Hexachlorobenzene	0.5	mg/kg	< 0.5	< 5	< 0.5
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 5	< 0.5
Hexachlorocyclopentadiene	2	mg/kg	< 2	< 20	< 2
Hexachloroethane	0.5	mg/kg	< 0.5	< 5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.8	< 0.5	1.0
Malathion	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Methoxychlor	0.5	mg/kg	< 0.5	< 5	< 0.5
Methyl azinphos	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Methyl parathion	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Mevinphos	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Monocrotophos	10	mg/kg	< 10	< 10	< 10
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	< 5	< 0.5
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	< 5	< 0.5
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	< 5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Nitrobenzene	0.5	mg/kg	< 0.5	< 5	< 0.5
Parathion	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pentachlorobenzene	0.5	mg/kg	< 0.5	< 5	< 0.5
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	< 5	< 0.5
Pentachlorophenol	1	mg/kg	< 1	< 10	< 1
Phenanthrene	0.5	mg/kg	< 0.5	51	1.5
Phenol	0.5	mg/kg	< 0.5	< 5	< 0.5
Phorate	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Profenofos	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Prothiofos	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	1.9	84	4.9
Ronnel	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Stirophos	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichloronate	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	75	71	76



Client Sample ID			CBH2B_(2.5-2.6m)	CBH2B_(3.5-3.6m)	CBH2B_(4.5-4.6m)
Sample Matrix			Soil	Soil	Soil
mgt-LabMark Sample No.			S12-Au00083	S12-Au00085	S12-Au00087
Date Sampled			Jul 31, 2012	Jul 31, 2012	Jul 31, 2012
Test/Reference	LOR	Unit			
Nitrobenzene-d5 (surr.)	1	%	75	73	75
p-Terphenyl-d14 (surr.)	1	%	96	120	101
2-Fluorobiphenyl (surr.)	1	%	92	111	97
% Moisture	0.1	%	21	25	16

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
mgt-LabMark Suite 4			
BTEX	Sydney	Aug 06, 2012	14 Day
- Method: E029/E016 BTEX			
Polyaromatic Hydrocarbons (PAH)	Sydney	Aug 06, 2012	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Aug 06, 2012	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *	Sydney	Aug 06, 2012	14 Day
- Method: LM-LTM-ORG2010			
Volatile Organic Compounds (VOC)	Sydney	Aug 06, 2012	14 Day
- Method: E016 Volatile Organic Compounds (VOC)			
Semivolatile Organic Compounds (SVOC)	Sydney	Aug 06, 2012	14 Day
- Method: E017 Semivolatile Organic Compounds (SVOC)			
Acid Sulphate Soils Field pH Test	Sydney	Aug 06, 2012	7 Day
- Method: Acid Sulphate Soils Guideline Series			
% Moisture	Sydney	Aug 06, 2012	28 Day
- Method: E005 Moisture Content			
Asbestos	Sydney	Aug 06, 2012	

Company Name: Coffey Geotechnics Pty Ltd Chatswood
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NSW 2067

Client Job No.: SICEEP DARLING HARBOUR GEOTLCOV24303AD

Order No.:
Report #: 346471
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Aug 1, 2012 4:10 PM
Due: Aug 9, 2012
Priority: 5 Day
Contact Name: Matthew Locke

mgt-LabMark Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
TB6	Jul 31, 2012		Soil	S12-Au00057			X				
TS6	Jul 31, 2012		Soil	S12-Au00058			X				
RB2	Jul 31, 2012		Water	S12-Au00059			X				
CBH1_(0.5-0.6m)	Jul 31, 2012		Soil	S12-Au00060	X				X		
CBH1_(1.0-1.1m)	Jul 31, 2012		Soil	S12-Au00061	X	X			X		
DUP11	Jul 31, 2012		Soil	S12-Au00062	X				X		
CBH1_(1.5-1.6m)	Jul 31, 2012		Soil	S12-Au00063			X				

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Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
CBH1_(2.0-2.1m)	Jul 31, 2012		Soil	S12-Au00064	X				X		
CBH1_(2.5-2.6m)	Jul 31, 2012		Soil	S12-Au00065			X				
CBH1_(3.0-3.1m)	Jul 31, 2012		Soil	S12-Au00066			X				
CBH1_(3.5-3.6m)	Jul 31, 2012		Soil	S12-Au00067			X				
CBH1_(4.0-4.1m)	Jul 31, 2012		Soil	S12-Au00068			X				
CBH1_(4.5-4.6m)	Jul 31, 2012		Soil	S12-Au00069			X				

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Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
CBH1_(5.0-5.1m)	Jul 31, 2012		Soil	S12-Au00070			X				
CBH1_(5.5-5.6m)	Jul 31, 2012		Soil	S12-Au00071			X				
CBH1_(5.9-6.0m)	Jul 31, 2012		Soil	S12-Au00072			X				
CBH1_ASS1_2.5m	Jul 31, 2012		Soil	S12-Au00073			X				
CBH1_ASS2_3.0m	Jul 31, 2012		Soil	S12-Au00074				X			
CBH1_ASS3_4.0m	Jul 31, 2012		Soil	S12-Au00075				X			

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Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
CBH1_ASS4_5 .0m	Jul 31, 2012		Soil	S12-Au00076			X				
CBH1_ASS5_6 .0m	Jul 31, 2012		Soil	S12-Au00077			X				
CBH2A_(0.5- 0.6m)	Jul 31, 2012		Soil	S12-Au00078			X				
CBH2B_(0.5- 0.6m)	Jul 31, 2012		Soil	S12-Au00079			X				
CBH2B_(1.0- 1.1m)	Jul 31, 2012		Soil	S12-Au00080	X				X		
CBH2B_(1.5- 1.6m)	Jul 31, 2012		Soil	S12-Au00081			X				

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Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
CBH2B_(2.0-2.1m)	Jul 31, 2012		Soil	S12-Au00082	X				X		
CBH2B_(2.5-2.6m)	Jul 31, 2012		Soil	S12-Au00083	X				X	X	X
CBH2B_(3.0-3.1m)	Jul 31, 2012		Soil	S12-Au00084			X				
CBH2B_(3.5-3.6m)	Jul 31, 2012		Soil	S12-Au00085	X				X	X	X
CBH2B_(4.0-4.1m)	Jul 31, 2012		Soil	S12-Au00086			X				
CBH2B_(4.5-4.6m)	Jul 31, 2012		Soil	S12-Au00087	X				X	X	X

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Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
CBH2B_(5.0-5.1m)	Jul 31, 2012		Soil	S12-Au00088			X				
CBH2B_ASS1_2.5m	Jul 31, 2012		Soil	S12-Au00091			X				
CBH2B_ASS2_3.0m	Jul 31, 2012		Soil	S12-Au00092			X				
CBH2B_ASS3_3.5m	Jul 31, 2012		Soil	S12-Au00093			X				
CBH2B_ASS4_4.5m	Jul 31, 2012		Soil	S12-Au00094			X				
CBH2B_(5.3-5.4m)	Jul 31, 2012		Soil	S12-Au00095			X				

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Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	mgt-LabMark Suite 4	Semivolatile Organic Compounds (SVOC)	Volatile Organic Compounds (VOC)
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
CBH2B_ASS5_5.4m	Jul 31, 2012		Soil	S12-Au00096			X				
DUP13	Jul 31, 2012		Soil	S12-Au00620			X				
DUP12	Jul 31, 2012		Soil	S12-Au00621			X				
TSLAB6	Jul 31, 2012		Soil	S12-Au00623			X				

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis, unless otherwise stated.
- Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001)

For samples received on the last day of holding time, notification of testing requirements should have been received at least

6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as an RPD

UNITS

mg/kg: milligrams per Kilogram

µg/L: micrograms per litre

ppb: Parts per billion

org/100mL: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/L: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Nephelometric Turbidity Units

TERMS

Dry:	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR:	Limit Of Reporting.
SPIKE:	Addition of the analyte to the sample and reported as percentage recovery.
RPD:	Relative Percent Difference between two Duplicate pieces of analysis.
LCS:	Laboratory Control Sample - reported as percent recovery.
CRM:	Certified Reference Material - reported as percent recovery.
Method Blank:	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate:	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate:	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate:	A second piece of analysis from a sample outside of the client's batch of samples but run within the laboratory batch of analysis.
Batch SPIKE:	Spike recovery reported on a sample from outside of the client's batch of samples but run within the laboratory batch of analysis.
USEPA:	U.S Environmental Protection Agency
APHA:	American Public Health Association
ASLP:	Australian Standard Leaching Procedure (AS4439.3)
TCLP:	Toxicity Characteristic Leaching Procedure
COC:	Chain Of Custody
SRA:	Sample Receipt Advice
CP:	Client Parent - QC was performed on samples pertaining to this report
NCP:	Non-Client Parent - QC was performed on samples not pertaining to this report, however QC is representative of the sequence or batch that client samples were analysed within

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
- For Matrix Spikes and LCS results a dash " - " in the report means that the specific analyte was not added to the QC sample
- Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data below the LOR with a positive RPD - eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.5			0.5	Pass	
Total m+p-Xylenes	mg/kg	< 1			1	Pass	
o-Xylene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions * LM-LTM-ORG2010							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Volatile Organic Compounds (VOC) E016 Volatile Organic Compounds (VOC)							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromo-3-chloropropane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 5			5	Pass	
2-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
2-Hexanone	mg/kg	< 5			5	Pass	
2-Pentanone	mg/kg	< 5			5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 5			5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 5			5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 5			5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 5			5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 5			5	Pass	
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
n-Butylbenzene	mg/kg	< 0.5			0.5	Pass	
n-Propylbenzene	mg/kg	< 0.5			0.5	Pass	
p-Isopropyltoluene	mg/kg	< 0.5			0.5	Pass	
sec-Butylbenzene	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
tert-Butylbenzene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 5			5	Pass	
Vinyl acetate	mg/kg	< 5			5	Pass	
Vinyl chloride	mg/kg	< 2			2	Pass	
Method Blank							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/kg	< 1			1	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Semivolatile Organic Compounds (SVOC) E017 Semivolatile Organic Compounds (SVOC)							
2-Chloronaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2-Methylnaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.5			0.5	Pass	
2-Naphthylamine	mg/kg	< 0.5			0.5	Pass	
2-Nitroaniline	mg/kg	< 1			1	Pass	
2-Nitrophenol	mg/kg	< 0.5			0.5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 1			1	Pass	
3-Methylcholanthrene	mg/kg	< 0.5			0.5	Pass	
4-Aminobiphenyl	mg/kg	< 0.5			0.5	Pass	
4-Bromophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 0.5			0.5	Pass	
4-Chlorophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	
4,4'-DDD	mg/kg	< 0.5			0.5	Pass	
4,4'-DDE	mg/kg	< 0.5			0.5	Pass	
4,4'-DDT	mg/kg	< 1			1	Pass	
Acetophenone	mg/kg	< 0.5			0.5	Pass	
Aldrin	mg/kg	< 0.5			0.5	Pass	
Aniline	mg/kg	< 0.5			0.5	Pass	
Bis(2-chloroethoxy)methane	mg/kg	< 0.5			0.5	Pass	
Bis(2-ethylhexyl)phthalate	mg/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Butyl benzyl phthalate	mg/kg	< 0.5			0.5	Pass	
d-BHC	mg/kg	< 0.5			0.5	Pass	
Di-n-butyl phthalate	mg/kg	< 0.5			0.5	Pass	
Di-n-octyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dibenzofuran	mg/kg	< 0.5			0.5	Pass	
Dieldrin	mg/kg	< 0.5			0.5	Pass	
Diethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dimethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Diphenylamine	mg/kg	< 0.5			0.5	Pass	
Endosulfan sulphate	mg/kg	< 0.5			0.5	Pass	
Endrin	mg/kg	< 0.5			0.5	Pass	
Endrin aldehyde	mg/kg	< 0.5			0.5	Pass	
Endrin ketone	mg/kg	< 0.5			0.5	Pass	
g-BHC (Lindane)	mg/kg	< 0.5			0.5	Pass	
Heptachlor	mg/kg	< 0.5			0.5	Pass	
Heptachlor epoxide	mg/kg	< 0.5			0.5	Pass	
Hexachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Hexachlorocyclopentadiene	mg/kg	< 2			2	Pass	
Hexachloroethane	mg/kg	< 0.5			0.5	Pass	
Methoxychlor	mg/kg	< 0.5			0.5	Pass	
N-Nitrosodibutylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosodipropylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosopiperidine	mg/kg	< 0.5			0.5	Pass	
Nitrobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachloronitrobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	88			70-130	Pass	
Toluene	%	99			70-130	Pass	
Ethylbenzene	%	88			70-130	Pass	
Total m+p-Xylenes	%	90			70-130	Pass	
o-Xylene	%	89			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions * LM-LTM-ORG2010							
Naphthalene	%	86			70-130	Pass	
LCS - % Recovery							
Volatile Organic Compounds (VOC) E016 Volatile Organic Compounds (VOC)							
1.1-Dichloroethane	%	92			75-125	Pass	
1.1-Dichloroethene	%	92			70-130	Pass	
1.1.1-Trichloroethane	%	87			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	88			70-130	Pass	
1.1.2-Trichloroethane	%	90			70-130	Pass	
1.2-Dibromo-3-chloropropane	%	77			70-130	Pass	
1.2-Dibromoethane	%	95			70-130	Pass	
1.2-Dichlorobenzene	%	88			70-130	Pass	
1.2-Dichloroethane	%	88			70-130	Pass	
1.2-Dichloropropane	%	89			70-130	Pass	
1.2.3-Trichloropropane	%	87			70-130	Pass	
1.2.4-Trichlorobenzene	%	85			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.2.4-Trimethylbenzene	%	89			70-130	Pass	
1.3-Dichlorobenzene	%	88			70-130	Pass	
1.3-Dichloropropane	%	90			70-130	Pass	
1.3.5-Trimethylbenzene	%	88			70-130	Pass	
1.4-Dichlorobenzene	%	88			70-130	Pass	
2-Butanone (MEK)	%	92			70-130	Pass	
2-Chlorotoluene	%	87			70-130	Pass	
2-Hexanone	%	95			70-130	Pass	
2-Pentanone	%	105			70-130	Pass	
4-Chlorotoluene	%	88			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	90			70-130	Pass	
Bromobenzene	%	86			70-130	Pass	
Bromodichloromethane	%	89			70-130	Pass	
Bromoform	%	87			70-130	Pass	
Bromomethane	%	87			70-130	Pass	
Carbon disulfide	%	86			70-130	Pass	
Carbon Tetrachloride	%	89			70-130	Pass	
Chlorobenzene	%	87			70-130	Pass	
Chloroethane	%	90			70-130	Pass	
Chloroform	%	88			70-130	Pass	
Chloromethane	%	82			70-130	Pass	
cis-1.2-Dichloroethene	%	91			70-130	Pass	
cis-1.3-Dichloropropene	%	92			70-130	Pass	
Dibromochloromethane	%	85			70-130	Pass	
Dichlorodifluoromethane	%	71			70-130	Pass	
Hexachlorobutadiene	%	88			70-130	Pass	
Isopropyl benzene (Cumene)	%	90			70-130	Pass	
Methylene Chloride	%	97			70-130	Pass	
n-Butylbenzene	%	88			70-130	Pass	
n-Propylbenzene	%	88			70-130	Pass	
p-Isopropyltoluene	%	87			70-130	Pass	
sec-Butylbenzene	%	87			70-130	Pass	
Styrene	%	90			70-130	Pass	
tert-Butylbenzene	%	87			70-130	Pass	
Tetrachloroethene	%	90			70-130	Pass	
trans-1.2-Dichloroethene	%	89			70-130	Pass	
trans-1.3-Dichloropropene	%	92			70-130	Pass	
Trichloroethene	%	89			70-130	Pass	
Trichlorofluoromethane	%	86			70-130	Pass	
Vinyl acetate	%	94			70-130	Pass	
Vinyl chloride	%	87			70-130	Pass	
LCS - % Recovery							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	%	90			70-130	Pass	
Acenaphthylene	%	83			70-130	Pass	
Anthracene	%	84			70-130	Pass	
Benz(a)anthracene	%	87			70-130	Pass	
Benzo(a)pyrene	%	97			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	%	94			70-130	Pass	
Benzo(g,h,i)perylene	%	83			70-130	Pass	
Chrysene	%	90			70-130	Pass	
Dibenz(a,h)anthracene	%	75			70-130	Pass	
Fluoranthene	%	80			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluorene	%	83			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	81			70-130	Pass	
Naphthalene	%	86			70-130	Pass	
Phenanthrene	%	82			70-130	Pass	
Pyrene	%	91			70-130	Pass	
LCS - % Recovery							
Semivolatile Organic Compounds (SVOC) E017 Semivolatile Organic Compounds (SVOC)							
2-Chlorophenol	%	88			70-130	Pass	
4-Chloro-3-methylphenol	%	117			70-130	Pass	
N-Nitrosodipropylamine	%	81			70-130	Pass	
Pentachlorophenol	%	98			70-130	Pass	
Phenol	%	103			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S12-Au00060	CP	%	79		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S12-Au00060	CP	%	94		70-130	Pass	
Toluene	S12-Au00060	CP	%	93		70-130	Pass	
Ethylbenzene	S12-Au00060	CP	%	93		70-130	Pass	
Total m+p-Xylenes	S12-Au00060	CP	%	91		70-130	Pass	
o-Xylene	S12-Au00060	CP	%	92		70-130	Pass	
Xylenes(ortho.meta and para)	S12-Au00060	CP	%	91		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1				
Naphthalene	S12-Au00060	CP	%	102		70-130	Pass	
TRH C6-C10	S12-Au00060	CP	%	78		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S12-Au00083	CP	%	103		70-130	Pass	
Toluene	S12-Au00083	CP	%	105		70-130	Pass	
Ethylbenzene	S12-Au00083	CP	%	100		70-130	Pass	
Total m+p-Xylenes	S12-Au00083	CP	%	99		70-130	Pass	
o-Xylene	S12-Au00083	CP	%	99		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1				
Naphthalene	S12-Au00083	CP	%	112		70-130	Pass	
Spike - % Recovery								
Volatile Organic Compounds (VOC)				Result 1				
1.1-Dichloroethane	S12-Au00083	CP	%	105		75-125	Pass	
1.1-Dichloroethene	S12-Au00083	CP	%	111		70-130	Pass	
1.1.1-Trichloroethane	S12-Au00083	CP	%	101		70-130	Pass	
1.1.1.2-Tetrachloroethane	S12-Au00083	CP	%	102		70-130	Pass	
1.1.2-Trichloroethane	S12-Au00083	CP	%	108		70-130	Pass	
1.2-Dibromo-3-chloropropane	S12-Au00083	CP	%	101		70-130	Pass	
1.2-Dibromoethane	S12-Au00083	CP	%	116		70-130	Pass	
1.2-Dichlorobenzene	S12-Au00083	CP	%	105		70-130	Pass	
1.2-Dichloroethane	S12-Au00083	CP	%	105		70-130	Pass	
1.2-Dichloropropane	S12-Au00083	CP	%	104		70-130	Pass	
1.2.3-Trichloropropane	S12-Au00083	CP	%	113		70-130	Pass	
1.2.4-Trichlorobenzene	S12-Au00083	CP	%	92		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.2.4-Trimethylbenzene	S12-Au00083	CP	%	102			70-130	Pass	
1.3-Dichlorobenzene	S12-Au00083	CP	%	101			70-130	Pass	
1.3-Dichloropropane	S12-Au00083	CP	%	108			70-130	Pass	
1.3.5-Trimethylbenzene	S12-Au00083	CP	%	103			70-130	Pass	
1.4-Dichlorobenzene	S12-Au00083	CP	%	102			70-130	Pass	
2-Butanone (MEK)	S12-Au00083	CP	%	119			70-130	Pass	
2-Chlorotoluene	S12-Au00083	CP	%	103			70-130	Pass	
2-Hexanone	S12-Au00083	CP	%	110			70-130	Pass	
2-Pentanone	S12-Au00083	CP	%	110			70-130	Pass	
4-Chlorotoluene	S12-Au00083	CP	%	102			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S12-Au00083	CP	%	112			70-130	Pass	
Bromobenzene	S12-Au00083	CP	%	105			70-130	Pass	
Bromodichloromethane	S12-Au00083	CP	%	103			70-130	Pass	
Bromoform	S12-Au00083	CP	%	106			70-130	Pass	
Bromomethane	S12-Au00083	CP	%	105			70-130	Pass	
Carbon disulfide	S12-Au00083	CP	%	106			70-130	Pass	
Carbon Tetrachloride	S12-Au00083	CP	%	105			70-130	Pass	
Chlorobenzene	S12-Au00083	CP	%	100			70-130	Pass	
Chloroethane	S12-Au00083	CP	%	109			70-130	Pass	
Chloroform	S12-Au00083	CP	%	100			70-130	Pass	
Chloromethane	S12-Au00083	CP	%	128			70-130	Pass	
cis-1.2-Dichloroethene	S12-Au00083	CP	%	103			70-130	Pass	
cis-1.3-Dichloropropene	S12-Au00083	CP	%	103			70-130	Pass	
Dibromochloromethane	S12-Au00083	CP	%	101			70-130	Pass	
Dichlorodifluoromethane	S12-Au00083	CP	%	115			70-130	Pass	
Hexachlorobutadiene	S12-Au00083	CP	%	92			70-130	Pass	
Isopropyl benzene (Cumene)	S12-Au00083	CP	%	103			70-130	Pass	
Methylene Chloride	S12-Au00083	CP	%	108			70-130	Pass	
n-Butylbenzene	S12-Au00083	CP	%	97			70-130	Pass	
n-Propylbenzene	S12-Au00083	CP	%	104			70-130	Pass	
p-Isopropyltoluene	S12-Au00083	CP	%	101			70-130	Pass	
sec-Butylbenzene	S12-Au00083	CP	%	103			70-130	Pass	
Styrene	S12-Au00083	CP	%	103			70-130	Pass	
tert-Butylbenzene	S12-Au00083	CP	%	105			70-130	Pass	
Tetrachloroethene	S12-Au00083	CP	%	103			70-130	Pass	
trans-1.2-Dichloroethene	S12-Au00083	CP	%	103			70-130	Pass	
trans-1.3-Dichloropropene	S12-Au00083	CP	%	103			70-130	Pass	
Trichloroethene	S12-Au00083	CP	%	103			70-130	Pass	
Trichlorofluoromethane	S12-Au00083	CP	%	106			70-130	Pass	
Vinyl acetate	S12-Au00083	CP	%	106			70-130	Pass	
Vinyl chloride	S12-Au00083	CP	%	120			70-130	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S12-Au00060	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S12-Au00060	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S12-Au00060	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S12-Au00060	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total m+p-Xylenes	S12-Au00060	CP	mg/kg	< 1	< 1	<1	30%	Pass	
o-Xylene	S12-Au00060	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes(ortho.meta and para)	S12-Au00060	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	
Total BTEX	S12-Au00060	CP	mg/kg	< 1.5	< 1.5	<1	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD			
Naphthalene	S12-Au00060	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S12-Au00060	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S12-Au00060	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD			
Acenaphthene	S12-Au00060	CP	mg/kg	< 0.5	< 0.5	27	30%	Pass	
Acenaphthylene	S12-Au00060	CP	mg/kg	0.7	< 0.5	55	30%	Fail	Q15
Anthracene	S12-Au00060	CP	mg/kg	1.8	1.2	38	30%	Fail	Q15
Benz(a)anthracene	S12-Au00060	CP	mg/kg	4.6	3.4	28	30%	Pass	
Benzo(a)pyrene	S12-Au00060	CP	mg/kg	4.8	3.8	25	30%	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S12-Au00060	CP	mg/kg	7.4	5.8	25	30%	Pass	
Benzo(g,h,i)perylene	S12-Au00060	CP	mg/kg	2.6	2.0	28	30%	Pass	
Chrysene	S12-Au00060	CP	mg/kg	4.3	3.2	29	30%	Pass	
Dibenz(a,h)anthracene	S12-Au00060	CP	mg/kg	0.5	< 0.5	26	30%	Pass	
Fluoranthene	S12-Au00060	CP	mg/kg	9.9	7.2	32	30%	Fail	Q15
Fluorene	S12-Au00060	CP	mg/kg	0.5	< 0.5	47	30%	Fail	Q15
Indeno(1,2,3-cd)pyrene	S12-Au00060	CP	mg/kg	2.0	1.5	29	30%	Pass	
Naphthalene	S12-Au00060	CP	mg/kg	< 0.5	< 0.5	45	30%	Fail	Q15
Phenanthrene	S12-Au00060	CP	mg/kg	7.7	5.4	35	30%	Fail	Q15
Pyrene	S12-Au00060	CP	mg/kg	9.6	7.1	30	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total m+p-Xylenes	S12-Au00083	CP	mg/kg	< 1	< 1	<1	30%	Pass	
o-Xylene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *				Result 1	Result 2	RPD			
Naphthalene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organic Compounds (VOC)				Result 1	Result 2	RPD			
1.1-Dichloroethane	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromo-3-chloropropane	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S12-Au00083	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Chlorotoluene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Volatile Organic Compounds (VOC)				Result 1	Result 2	RPD			
2-Hexanone	S12-Au00083	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Pentanone	S12-Au00083	CP	mg/kg	< 5	< 5	<1	30%	Pass	
4-Chlorotoluene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S12-Au00083	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Bromobenzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S12-Au00083	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Carbon disulfide	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S12-Au00083	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Chloroform	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S12-Au00083	CP	mg/kg	< 5	< 5	<1	30%	Pass	
cis-1,2-Dichloroethene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1,3-Dichloropropene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S12-Au00083	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Hexachlorobutadiene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S12-Au00083	CP	mg/kg	< 5	< 5	<1	30%	Pass	
n-Butylbenzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
n-Propylbenzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
p-Isopropyltoluene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
sec-Butylbenzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
tert-Butylbenzene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1,2-Dichloroethene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1,3-Dichloropropene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S12-Au00083	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S12-Au00083	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Vinyl acetate	S12-Au00083	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Vinyl chloride	S12-Au00083	CP	mg/kg	< 2	< 2	<1	30%	Pass	

Comments

Please note: Asbestos analysed by ASET (Job : ASET30578/33758/1-1) NATA Accreditation : 14484

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
Q15	The RPD reported passes mgt-LabMark's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Laura Schofield	Senior Analyst-Volatile (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

mgt-LabMark shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall mgt-LabMark be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

#346471

coffey  environments

QLD:	☐ 47 Doggett St, Newstead QLD 4006	Tel (07) 3608 2500	Fax (07) 3852 2805
SA:	☐ Level 1, 2-3 Greenhill Rd, Wayville SA 5034	Tel (08) 7221 3500	Fax (08) 8172 1968
TAS:	☐ Coffey Business Centre, 2 Melville St, Hobart TAS 7000	Tel (03) 6108 0100	Fax (03) 6108 0199
VIC:	☐ 126 Trenery Cres, Abbotsford VIC 3067	Tel (03) 9473 1400	Fax (03) 9473 1450
	☐ Level 1, 23 West Fyans St, Newtown VIC 3220	Tel (03) 5215 4600	Fax (03) 5224 1368
WA:	☐ 61 Duke St, Albany WA 6330	Tel (08) 9892 6400	Fax (08) 9892 6444
	☐ Suite 2, 53 Burswood Rd, Burswood WA 6100	Tel (08) 9355 7100	Fax (08) 9355 7111
	☐ Suite 3 & 4, 236 Naturaliste Tce, Dunsborough WA 6281	Tel (08) 9756 7869	Fax (08) 9756 8878

Project No: GEOTLCOV24303AD	Task No:
Project Name: SICEEP Darling Harbour	Laboratory: MGT LabMark
Samplers Name: Priya Dass	Project Manager: Matthew Locke
Special Instructions:	

Analysis Request Section

[illegible]

Send to Envirologia

58
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 Send to Envinola p.
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RELINQUISHED BY:

RECEIVED BY:

Sample Receipt Advice: *(Lab Use Only)*

Signature: [Signature] Date: 31/7/12

Company: Coffee Equipments Time: _____

Signature: _____ Date: 3:45 p.m.

Company: _____ Time: _____

Signature: 

Company: MGT LabMarkt

Signature: 

Company: Mat-LabMark

Date: 3/7/2

Time: 3:45 PM

Date:

Time:

All Samples Received in Good Condition . . . ☐

All Documentation is in Proper Order ☐

Samples Received Properly Chilled ☐

Lab. Ref/Batch No.

* **Container Type & Preservation Codes:** **P** - Plastic, **G** - Solvent Washed Acid Rinsed Glass Bottle, **V** - Vial, **N** - Nitric Acid Preserved
C - Hydrochloric Acid Preserved, **S** - Sulphuric Acid Preserved, **I** - Ice

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Philippines: ☐ 3rd Floor, JMT Bldg, ADB Ave, Ortigas Ctr, Pasig City, Metro Manila, Philippines Tel (+63) (2) 638 9686 Fax (+63) (2) 687 3518

ACT: ☐ 2/54 Northbourne Ave, Canberra ACT 2601 Tel (02) 6248 7366 Fax (02) 6248 7157

NSW: ☒ Level 1, 3 Rider Blvd, Rhodes NSW 2138 Tel (02) 8083 1600 Fax (02) 8765 0762

☐ Lot 101, 19 Warabrook Blvd, Warabrook NSW 2304 Tel (02) 4016 2300 Fax (02) 4016 2380

☐ 1/222 Berkeley Rd, Unanderra NSW 2526 Tel (02) 4272 6071 Fax (02) 4272 6075

QLD: ☐ 47 Doggett St, Newstead QLD 4006 Tel (07) 3608 2500 Fax (07) 3852 2805

SA: ☐ Level 1, 2-3 Greenhill Rd, Wayville SA 5034 Tel (08) 7221 3500 Fax (08) 8172 1968

TAS: ☐ Coffey Business Centre, 2 Melville St, Hobart TAS 7000 Tel (03) 6108 0100 Fax (03) 6108 0199

VIC: ☐ 126 Trenerry Cres, Abbotsford VIC 3067 Tel (03) 9473 1400 Fax (03) 9473 1450

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☐ Suite 3 & 4, 236 Naturaliste Tce, Dunsborough WA 6281 Tel (08) 9756 7869 Fax (08) 9756 8878

Project No: GEOTLCOV24303AD

Task No:

Project Name: SICEEP, Darling Harbour

Laboratory: MGT LabMark

Samplers Name: Priya Dass

Project Manager: Matthew Locke

Special Instructions:

Analysis Request Section

Lab. No.	Sample ID	Sample Location	Sample Depth	Sample Date	Time	Matrix (Soil ... etc)	Container Type & Preservative*	T-A-T (Specify)	BTEX	METAL	PAHs	OCs	Hol	Hol	3035	3036	3037	3038	3039	3040	3041	3042	3043	3044	3045	3046	3047	3048	3049	3050	3051	3052	3053	3054	3055	3056	3057	3058	3059	3060	3061	3062	3063	3064	3065	3066	3067	3068	3069	3070	3071	3072	3073	3074	3075	3076	3077	3078	3079	3080	3081	3082	3083	3084	3085	3086	3087	3088	3089	3090	3091	3092	3093	3094	3095	3096	3097	3098	3099	3100	3101	3102	3103	3104	3105	3106	3107	3108	3109	3110	3111	3112	3113	3114	3115	3116	3117	3118	3119	3120	3121	3122	3123	3124	3125	3126	3127	3128	3129	3130	3131	3132	3133	3134	3135	3136	3137	3138	3139	3140	3141	3142	3143	3144	3145	3146	3147	3148	3149	3150	3151	3152	3153	3154	3155	3156	3157	3158	3159	3160	3161	3162	3163	3164	3165	3166	3167	3168	3169	3170	3171	3172	3173	3174	3175	3176	3177	3178	3179	3180	3181	3182	3183	3184	3185	3186	3187	3188	3189	3190	3191	3192	3193	3194	3195	3196	3197	3198	3199	3200	3201	3202	3203	3204	3205	3206	3207	3208	3209	3210	3211	3212	3213	3214	3215	3216	3217	3218	3219	3220	3221	3222	3223	3224	3225	3226	3227	3228	3229	3230	3231	3232	3233	3234	3235	3236	3237	3238	3239	3240	3241	3242	3243	3244	3245	3246	3247	3248	3249	3250	3251	3252	3253	3254	3255	3256	3257	3258	3259	3260	3261	3262	3263	3264	3265	3266	3267	3268	3269	3270	3271	3272	3273	3274	3275	3276	3277	3278	3279	3280	3281	3282	3283	3284	3285	3286	3287	3288	3289	3290	3291	3292	3293	3294	3295	3296	3297	3298	3299	3300	3301	3302	3303	3304	3305	3306	3307	3308	3309	3310	3311	3312	3313	3314	3315	3316	3317	3318	3319	3320	3321	3322	3323	3324	3325	3326	3327	3328	3329	3330	3331	3332	3333	3334	3335	3336	3337	3338	3339	3340	3341	3342	3343	3344	3345	3346	3347	3348	3349	3350	3351	3352	3353	3354	3355	3356	3357	3358	3359	3360	3361	3362	3363	3364	3365	3366	3367	3368	3369	3370	3371	3372	3373	3374	3375	3376	3377	3378	3379	3380	3381	3382	3383	3384	3385	3386	3387	3388	3389	3390	3391	3392	3393	3394	3395	3396	3397	3398	3399	3400	3401	3402	3403	3404	3405	3406	3407	3408	3409	3410	3411	3412	3413	3414	3415	3416	3417	3418	3419	3420	3421	3422	3423	3424	3425	3426	3427	3428	3429	3430	3431	3432	3433	3434	3435	3436	3437	3438	3439	3440	3441	3442	3443	3444	3445	3446	3447	3448	3449	3450	3451	3452	3453	3454	3455	3456	3457	3458	3459	3460	3461	3462	3463	3464	3465	3466	3467	3468	3469	3470	3471	3472	3473	3474	3475	3476	3477	3478	3479	3480	3481	3482	3483	3484	3485	3486	3487	3488	3489	3490	3491	3492	3493	3494	3495	3496	3497	3498	3499	3500	3501	3502	3503	3504	3505	3506	3507	3508	3509	3510	3511	3512	3513	3514	3515	3516	3517	3518	3519	3520	3521	3522	3523	3524	3525	3526	3527	3528	3529	3530	3531	3532	3533	3534	3535	3536	3537	3538	3539	3540	3541	3542	3543	3544	3545	3546	3547	3548	3549	3550	3551	3552	3553	3554	3555	3556	3557	3558	3559	3560	3561	3562	3563	3564	3565	3566	3567	3568	3569	3570	3571	3572	3573	3574	3575	3576	3577	3578	3579	3580	3581	3582	3583	3584	3585	3586	3587	3588	3589	3590	3591	3592	3593	3594	3595	3596	3597	3598	3599	3600	3601	3602	3603	3604	3605	3606	3607	3608	3609	3610	3611	3612	3613	3614	3615	3616	3617	3618	3619	3620	3621	3622	3623	3624	3625	3626	3627	3628	3629	3630	3631	3632	3633	3634	3635	3636	3637	3638	3639	3640	3641	3642	3643	3644	3645	3646	3647	3648	3649	3650	3651	3652	3653	3654	3655	3656	3657	3658	3659	3660	3661	3662	3663	3664	3665	3666	3667	3668	3669	3670	3671	3672	3673	3674	3675	3676	3677	3678	3679	3680	3681	3682	3683	3684	3685	3686	3687	3688	3689	3690	3691	3692	3693	3694	3695	3696	3697	3698	3699	3700	3701	3702	3703	3704	3705	3706	3707	3708	3709	3710	3711	3712	3713	3714	3715	3716	3717	3718	3719	3720	3721	3722	3723	3724	3725	3726	3727	3728	3729	3730	3731	3732	3733	3734	3735	3736	3737	3738	3739	3740	3741	3742	3743	3744	3745	3746	3747	3748	3749	3750	3751	3752	3753	3754	3755	3756	3757	3758	3759	3760	3761	3762	3763	3764	3765	3766	3767	3768	3769	3770	3771	3772	3773	3774	3775	3776	3777	3778	3779	3780	3781	3782	3783	3784	3785	3786	3787	3788	3789	3790	3791	3792	3793	3794	3795	3796	3797	3798	3799	3800	3801	3802	3803	3804	3805	3806	3807	3808	3809	3810	3811	3812	3813	3814	3815	3816	3817	3818	3819	3820	3821	3822	3823	3824	3825	3826	3827	3828	3829	3830	3831	3832	3833	3834	3835	3836	3837	3838	3839	3840	3841	3842	3843	3844	3845	3846	3847	3848	3849	3850	3851	3852	3853	3854	3855	3856	3857	3858	3859	3860	3861	3862	3863	3864	3865	3866	3867	3868	3869	3870	3871	3872	3873	3874	3875	3876	3877	3878	3879	3880	3881	3882	3883	3884	3885	3886	3887	3888	3889	3890	3891	3892	3893	3894	3895	3896	3897	3898	3899	3900	3901	3902	3903	3904	3905	3906	3907	3908	3909	3910	3911	3912	3913	3914	3915	3916	3917	3918	3919	3920	3921	3922	3923	3924	3925	3926	3927	3928	3929	3930	3931	3932	3933	3934	3935	3936	3937	3938	3939	3940	3941	3942	3943	3944	3945	3946	3947	3948	3949	3950	3951	3952	3953	3954	3955	3956	3957	3958	3959	3960	3961	3962	3963	3964	3965	3966	3967	3968	3969	3970	3971	3972	3973	3974	3975	3976	3977	3978	3979	3980	3981	3982	3983	3984	3985	3986	3987	3988	3989	3990	3991	3992	3993	3994	3995	3996	3997	3998	3999	4000	4001	4002	4003	4004	4005	4006	4007	4008	4009	4010	4011	4012	4013	4014	4015	4016	4017	4018	4019	4020	4021	4022	4023	4024	4025	4026	40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