Appendix E

Laboratory Reports

Douglas Partners
Geotechnics · Environment · Groundwater

CHAIN OF CUSTODY

Project Name: Randwick, Spectator and Stable Precincts – Contam Asses To: SGS Australia Pty Ltd
Project No: 71976.01.................... Sampler: ......NSA...................... Unit 16, Maddox Street, Alexandria
Project Mgr: Lidsay Rockett............Mob. Phone: 0409 773 636 (Nizam)...... Attn: Simon Mathews
Email: nizam.ahamed@douglaspartners.com.au........@douglaspartners.com.au ....Phone: 02 8594 0400 Fax: 02 99872151
Date Required: STD Turn around......... Lab Quote No. ....

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type S - soil W – water	Container type	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	BTEX/ TPH	OCPs/ OPPs	PCBs	PAH	Total Phenols	VOCs	Other Asbestos	pH	EC	Notes
BH1/	0.3-0.5	1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓			
BH 2/	0.3-0.6	2				↓	↓	↓	↓	↓	↓	↓	↓	↓			↓			✓	✓	✓	Received 25/8/10
BH 2/	0.7-1.0	3				↓	↓	↓	↓	↓	↓	↓	↓	↓			↓				✓	✓	By CP; Time 1045
BH2/	4.1-4.5	4				↓	↓	↓	↓	↓	↓	↓	↓	↓			↓						Samples intact
BH3/	0.3-0.6	5				↓	↓	↓	↓	↓	↓	↓	↓	↓	✓	✓	↓	✓		✓			Ice/Cooler Pack; Temperature on Rec.
BH4/	0.4-0.6	6				↓	↓	↓	↓	↓	↓	↓	↓	↓	✓	✓	↓	✓		✓			Storage Location; SGS REF SE80889
BH5/	0-0.3	7				↓	↓	↓	↓	↓	↓	↓	↓	↓	✓	✓	↓			✓	✓	✓	
BH5/	3.4-3.9	8				↓	↓	↓	↓	↓	↓	↓	↓	↓			↓			ı	✓	✓	
BH6/	0.3-0.6	9				↓	↓	↓	↓	↓	↓	↓	↓	↓	✓	✓	↓	✓		✓			
BH6/	0.6-1.0	10				✓	✓	✓	✓	✓	✓	✓	✓	✓			✓						
BD1/	200810	11				✓	✓	✓	✓	✓	✓	✓	✓	TPH									
BD3/	200810	12				✓	✓	✓	✓	✓	✓	✓	✓	TPH									

Lab Report No. SE80889.............. Phone: (02) 9809 0666
Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114 Fax: (02) 9809 4095
Relinquished by: Nizam Signed: [signature] Date & Time: 25/8 8:30 Received By: CP Date & Time: 25/8/10 1045am
Relinquished by: Signed: Date & Time: Received By: Date & Time:

Douglas Partners
Geotechnics · Environment · Groundwater

CHAIN OF CUSTODY

Project Name: Randwick, Spectator and Stable Precincts – Contam AssesTo: SGS Australia Pty Ltd
Project No: 71976.01..... Sampler: .....NSA... .....
Project Mgr: Lidsay Rockett.....Mob. Phone: 0409 773 636.....
Email: nizam.ahamed@douglaspartners.com.au.....@douglaspartners.com.au
Date Required: STD Turn around..... Lab Quote No. .....

Unit 16, Maddox Street, Alexandria
Attn: Simon Mathews
..... Phone: 02 8594 0400 Fax: 02 99872151

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type S - soil W – water	Container type	Analytes: As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	BTEX/ TPH	OCPs/ OPPs	PCBs	PAH	Phenols	VOCs	Other: Asbestos	Notes
TP101	0-0.3	13				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
TP102	0-0.3	14													✓	✓		✓		✓	
TP102	0.4-0.8	15																		✓	
TP110	0-0.2	16													✓	✓		✓		✓	
TP110	0.5-1.0	17													✓	✓		✓		✓	
TP110	1.5-2.0	18													[illegible]	[illegible]				✓	
TP109	0-0.3	19													[illegible]	[illegible]				✓	
TP109	0.6-1.1	20													[illegible]	[illegible]				[illegible]	
TP108	0-0.3	21													✓	✓		✓		[illegible]	
TP108	0.6-1.1	22																		[illegible]	
TP107	0.4-0.8	23													✓	✓		✓		[illegible]	
TP107	0.8-1.3	24																			

Lab Report No. SE 80339
Phone: (02) 9809 0666
Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114 Fax: (02) 9809 4095
Relinquished by: Nizam Signed: Date & Time: 25/8 8:30 Received By: CP Date & Time: 25/8/10 1045 am
Relinquished by: Signed: Date & Time: Received By: Date & Time:

Douglas Partners
Geotechnics · Environment · Groundwater

CHAIN OF CUSTODY

Project Name: Randwick, Spectator and Stable Precincts – Contam AssesTo: SGS Australia Pty Ltd
Project No: 71976.01..... Sampler: .....NSA..... Unit 16, Maddox Street, Alexandria
Project Mgr: Lidsay Rockett.....Mob. Phone: 0409 773 636..... Attn: Simon Mathews
Email: nizam.ahamed@douglaspartners.com.au.....@douglaspartners.com.au ..... Phone: 02 8594 0400 Fax: 02 99872151
Date Required: STD Turn around..... Lab Quote No. .....

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type S - soil W – water	Container type	Analytes: As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	BTEX/ TPH	OCPs/ OPPs	PCBs	PAH	Phenols	VOCs	Other Asbestos	Notes
TP106/	0-0·3	25													✓	✓		✓		✓	
TP106/	0·4-1·0	26																			
TP105/	0·3-0·6	27													✓	✓		✓		✓	
TP105/	1-1·5	28																			
TP104/	0-0·2	29													✓	✓		✓		✓	
TP104/	0·3-0·8	30													QNR	ulf		ulf		✓	
TP104/	1-1·6	31																			
TP103/	0-0·3	32													✓	✓		✓		✓	
TP103/	0·4-0·9	33																			
TP107/	0-0·3	34													✓	✓	✓	✓		✓	
BD4/	230810	35				✓	✓	✓	✓	✓	✓	✓	✓	TPH	—	—	—	—	—	—	→ PLEASE FORWARD INTERLAB SAMPLE TO LABMARK.

Lab Report No. SE80889 Phone: (02) 9809 0666
Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114 Fax: (02) 9809 4095
Relinquished by: Nizam Signed: Date & Time: 25/8 8:30 Received By: CP Date & Time: 25/8/10 10:40 am
Relinquished by: Signed: Date & Time: Received By: Date & Time:

Douglas Partners
Geotechnics · Environment · Groundwater

CHAIN OF CUSTODY

Project Name: Randwick, Spectator and Stable Precincts – Contam AssesTo: SGS Australia Pty Ltd
Project No: 71976.01..... Sampler: .....NSA... ..... Unit 16, Maddox Street, Alexandria
Project Mgr: Lidsay Rockett.....Mob. Phone: 0409 773 636..... Attn: Simon Mathews
Email: nizam.ahamed@douglaspartners.com.au.....@douglaspartners.com.au ..... Phone: 02 8594 0400 Fax: 02 99872151
Date Required: STD Turn around..... Lab Quote No. .....

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type S - soil W – water	Container type	Analytes: As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	BTEX/ TPH	OCPs/ OPPs	PCBs	PAH	Phenols	VOCs	Other	pH	EC	Notes
BH2/	1-1.5	36																			L	L	
BH2/	1.6-2.0	37																					
BH2/	2.1-2.5	38																					
BH2/	2.6-3.0	39																					
BH2/	3.1-3.5	40																					
BH2/	3.6-4.0	41																					
BH2/	5.1-5.5	42																					
BH2/	4.6-5.0	43																					
BH5/	0.6-1.0	44																					
BH5/	1-1.5	45																					
BH5/	1.6-2.0	46																					
BH5/	2.1-2.5	47																					

Lab Report No. ..SE80889..... Phone: (02) 9809 0666
Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114 Fax: (02) 9809 4095
Relinquished by: Nizam Signed: Date & Time: 25/8 8:30 Received By: CP Date & Time: 25/8/10 10:45am
Relinquished by: Signed: Date & Time: Received By: Date & Time:

Douglas Partners
Geotechnics · Environment · Groundwater

CHAIN OF CUSTODY

Project Name: Randwick, Spectator and Stable Precincts – Contam Asses
Project No: 71976.01..... Sampler: .....NSA... .....
Project Mgr: Lidsay Rockett.....Mob. Phone: 0409 773 636.....
Email: nizam.ahamed@douglaspartners.com.au.....@douglaspartners.com.au
Date Required: STD Turn around..... Lab Quote No. .....

To: SGS Australia Pty Ltd
Unit 16, Maddox Street, Alexandria
Attn: Simon Mathews
..... Phone: 02 8594 0400 Fax: 02 99872151

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type S - soil W – water	Container type	Analytes: As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	BTEX/ TPH	OCPs/ OPPs	PCBs	PAH	Phenols	VOCs	Other	pH	Electrical conductivity	Notes
BH5/2	1.-3.0	48																			✓	✓	
BH5/4	-4.5	49																			↓	↓	
BH5/5	5-1.0	50																			↓	↓	
TB1/2	00810	51												✓									
TB/20	0810	52												✓									
TB/2	30 0810	53												✓									
TS/23	0810	54												✓									

Lab Report No. ...SE80889.....
Phone: (02) 9809 0666

Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114
Fax: (02) 9809 4095

Relinquished by: Nizam Signed: Date & Time: 25/2 8:30 Received By: QP Date & Time: 25/2/10 10:4 am

Relinquished by: Signed: Date & Time: Received By: Date & Time:

Douglas Partners
Geotechnics · Environment · Groundwater

CHAIN OF CUSTODY

Project Name: Randwick, Spectator and Stable Precincts – Contam Asses
Project No: 71976.01.................. Sampler: ......NSA... ....
Project Mgr: Lindsay Rockett...........Mob. Phone: 0409 773 636.......................
Email: nizam.ahamed@douglaspartners.com.au .... @douglaspartners.com.au
Date Required: STD Turn around......... Lab Quote No. ....

To: SGS Australia Pty Ltd
Unit 16, Maddox Street, Alexandria
Attn: Simon Mathews
.............................Phone: 02 8594 0400 Fax: 02 99872151

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type S - soil W – water	Container type	Analytes As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	BTEX/ TPH	OCPs/ OPPs	PCBs	PAH	Phenols	VOCs	Other Spec As	Asbestos	Notes SE80889 - 2
BH2/	0.3-0.6	1																		✓	✓	Sample was missing from previous batch
BH2/	3.6-4.0	2																		✓	[illegible]	
BH6/5.	1-5.5	3																		✓		
BH5/0	-0.3	4																		✓		
BH5/	2.1-2.5	5																		✓		
BH5/	5.5-6.0	6																		✓		

Stamp: 1/9/10 ... Samples intact ... Cooler/Pack ... Temperature on ... 20 ... Storage ... SE81056

Lab Report No. ....
Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114
Phone: (02) 9809 0666
Fax: (02) 9809 4095
Relinquished by: Nizam Signed: [signature] Date & Time: 1/9/2010 10am Received By: [signature] Date & Time: 1/9/10 5pm
Relinquished by: Signed: Date & Time: Received By: Date & Time:

Form COC - Rev0/November 2006

Douglas Partners
Geotechnics · Environment · Groundwater

CHAIN OF CUSTODY

Project Name: Randwick, Spectator and Stable Precincts – Contam Asses
Project No: 71976.01.................... Sampler: ......NSA... ....
Project Mgr: Lindsay Rockett...........Mob. Phone: 0409 773 636.........................
Email: nizam.ahamed@douglaspartners.com.au .... @douglaspartners.com.au
Date Required: STD Turn around......... Lab Quote No. ....

To: SGS Australia Pty Ltd
Unit 16, Maddox Street, Alexandria
Attn: Simon Mathews
..............................Phone: 02 8594 0400 Fax: 02 99872151

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type (S - soil, W – water)	Container type	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	BTEX/ TPH	OCPs/ OPPs	PCBs	PAH	Phenols	VOCs	Other: Spocas	Asbestos	Notes (SE80889 - 2)
BH2/	0.5-0.6	1																		✓	✓	Sample was missing from previous batch
BH3/	3.6-4.0	2																		✓		
BH4/5	1-5.5	3																		✓		
BH5/0	-0.3	4																		✓		
BH5/	2.1-2.5	5																		✓		
BH5/	5.5-6.0	6																		✓		

Samples intact
Temperature on receipt
SE80886

Lab Report No. ....
Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114 Phone: (02) 9809 0666 Fax: (02) 9809 4095
Relinquished by: Nizam Signed: [signature] Date & Time: 1/9/2010 10am Received By: [signature] Date & Time: 1/9/10 5pm
Relinquished by: Signed: Date & Time: Received By: Date & Time:

Douglas Partners
Geotechnics · Environment · Groundwater

CHAIN OF CUSTODY

Project Name: Randwick, Spec and Stable Precinct Contam Assessment ...
Project No: 71976.01.................. Sampler: ......NSA... ....
Project Mgr: Lindsay Rockett...........Mob. Phone: 0409 773 636........................
Email: nizam.ahamed@douglaspartners.com.au .... @douglaspartners.com.au
Date Required: STD Turn around......... Lab Quote No. ....

To: SGS Australia Pty Ltd
Unit 16, Maddox Street, Alexandria
Attn: Simon Mathews
.... Phone: 02 8594 0400 Fax: 02 99872151

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type (S - soil, W – water)	Container type	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	BTEX/ TPH	OCPs/ OPPs TRACE	PCBs TRACE	PAH	Phenols	VOCs	Other: CHLORIDE	Other: SULPHATE	PH	Notes
BH2		1				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	
BH5		2				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	
BD1/030910		3				✓	✓	✓	✓	✓	✓	✓	✓				✓						
BD2/030910						✓	✓	✓	✓	✓	✓	✓	✓				✓						→ INTERLAB SAMPLE. PLEASE FORWARD TO LABMARK.
TS1		4												✓									
TB1		5												✓									

SGS 6/9/10 3 0 W153-153 SE 81160

Lab Report No. ....
Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114
Phone: (02) 9809 0666
Fax: (02) 9809 4095

Relinquished by: Nizam Signed: [signature] Date & Time: 06/9/10 11am Received By: CP Date & Time: 6/9/10 3pm
Relinquished by: Signed: Date & Time: Received By: Date & Time:

mgt LabMark
ENVIRONMENTAL LABORATORIES

ilac-MRA NATA
Accreditation No. 1645

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No:	E049886	Cover Page 1 of 3
Client Name:	Douglas Partners	plus Sample Results
Client Reference:	Randwick, Spectator and Stable Precincts	
Contact Name:	Lindsay Rockett	
Chain of Custody No:	na	Date Received: 26/08/2010
Sample Matrix:	SOIL	Date Reported: 14/09/2010

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occured within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy:	matrix spike:	1 in first 5-20, then 1 every 20 samples
	lcs, crm, method:	1 per analytical batch
	surrogate spike:	addition per target organic method
Precision:	laboratory duplicate:	1 in first 5-10, then 1 every 10 samples
	laboratory triplicate:	re-extracted & reported when duplicate RPD values exceed acceptance criteria
Holding Times:	soils, waters:	Refer to LabMark Preservation & THT table VOC's 14 days water / soil VAC's 7 days water or 14 days acidified VAC's 14 days soil SVOC's 7 days water, 14 days soil Pesticides 7 days water, 14 days soil Metals 6 months general elements Mercury 28 days
Confirmation:	target organic analysis:	GC/MS, or confirmatory column
Sensitivity:	EQL:	Typically 2-5 x Method Detection Limit (MDL)

QUALITY CONTROL GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy:	spike, lcs, crm surrogate:	general analytes 70% - 130% recovery phenol analytes 50% - 130% recovery organophosphorous pesticide analytes 60% - 130% recovery phenoxy acid herbicides, organotin 50% - 130% recovery
	anion/cation bal:	+/- 10% (0-3 meq/l), +/- 5% (>3 meq/l)
Precision:	method blank:	not detected >95% of the reported EQL
	duplicate lab RPD (metals):	0-30% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)
	duplicate lab RPD:	0-50% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)

QUALITY CONTROL ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy:	spike, lcs, crm surrogate:	analyte specific recovery data <3xsd of historical mean
Uncertainty:	spike, lcs:	measurement calculated from historical analyte specific control charts

RESULT ANNOTATION

Data Quality Objective	s:	matrix spike recovery	p:	pending	bcs: batch specific lcs
Data Quality Indicator	d:	laboratory duplicate	lcs:	laboratory control sample	bmb: batch specific mb
Estimated Quantitation Limit	t:	laboratory triplicate	crm:	certified reference material	
not applicable	r:	RPD relative % difference	mb:	method blank	

Laura Schofield
Quality Control (Report signatory)
laura.schofield@labmark.com.au

Laura Schofield
Authorising Chemist (NATA signatory)
laura.schofield@labmark.com.au

Ryan Hamilton
Authorising Chemist (NATA signatory)
ryan.hamilton@labmark.com.au

Laboratory Report: E049886

Cover Page 2 of 3

NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.

B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.

C. Laboratory QA/QC samples are specific to this project.

D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.

E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.

F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.

G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomolous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.

H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.

I. LabMark shall maintain an official copy of this Certificate of Analysis for all tracable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

A. SRN issued to client upon sample receipt & login verification.

B. Preservation & sampling date details specified on COC and SRN, unless noted.

C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

A. NATA accreditation held for each in-house method and sample matrix type reported, unless noted below (Refer to subcontracted test reports for NATA accreditation status).

B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.

C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.

Reported by mgt LabMark Environmental Melbourne, NATA accreditation No. 1645.

Environmental Laboratory Industry Group
Foundation Member

Laboratory Report: E049886

Cover Page 3 of 3

4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	Volatile TPH by P&T (vTPH)	1	0	0%	0	0	0%
2	Petroleum Hydrocarbons (TPH)	1	0	0%	0	0	0%
3	Acid extractable metals - mercury	1	0	0%	0	0	0%
4	Acid extractable metals	1	0	0%	0	0	0%
5	Analysis by MGT LabMark	1	0	0%	0	0	0%
6	Moisture	1	--	--	--	--	--

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

5. ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

A. All tests were conducted by LabMark Environmental Sydney, NATA accreditation No. 13542, unless indicated below.

B. Report reissued with amendments made to metals results

LabMark
ENVIRONMENTAL LABORATORIES

Laboratory Report No: E049886
Client Name: Douglas Partners
Contact Name: Lindsay Rockett
Client Reference: Randwick, Spectator and Stable Precincts 71976.01

plus cover page
Date: 14/09/10
This report supercedes reports issued on: 06/09/10

Final
Certificate
of Analysis

Laboratory Identification		275900	lcs	mb							
Sample Identification		BD4/230810	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		23/8/10	--	--							
Laboratory Extraction (Preparation) Date		27/8/10	27/8/10	27/8/10							
Laboratory Analysis Date		30/8/10	27/8/10	27/8/10							
Method : E029.2/E016.2											
Volatile TPH by P&T (vTPH)	**EQL**										
C6 - C9 Fraction	10	<10	115%	<10							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E029.2/E016.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID/MSD.

Laboratory Identification		**275900**	**lcs**	**mb**							
Sample Identification		BD4/230810	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		23/8/10	--	--							
Laboratory Extraction (Preparation) Date		27/8/10	27/8/10	27/8/10							
Laboratory Analysis Date		28/8/10	28/8/10	28/8/10							
Method : E006.2											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10 - C14 Fraction	50	<50	--	<50							
C15 - C28 Fraction	100	<100	98%	<100							
C29 - C36 Fraction	100	<100	--	<100							
Sum of TPH C10 - C36	--	--	--	--							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/FID.

Laboratory Identification		275900	crm	lcs	mb						
Sample Identification		BD4/230810	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		23/8/10	--	--	--						
Laboratory Extraction (Preparation) Date		27/8/10	27/8/10	27/8/10	27/8/10						
Laboratory Analysis Date		3/9/10	27/8/10	27/8/10	27/8/10						
Method : E026.2											
Acid extractable metals - mercury	**EQL**										
Mercury	0.05	<0.05	87%	93%	<0.05						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		275900	lcs	mb							
Sample Identification		BD4/230810	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		23/8/10	--	--							
Laboratory Extraction (Preparation) Date		27/8/10	27/8/10	27/8/10							
Laboratory Analysis Date		31/8/10	30/8/10	30/8/10							
Method : E020.2/E030.2											
Acid extractable metals	**EQL**										
Arsenic	1	1	107%	<1							
Cadmium	0.1	<0.1	98%	<0.1							
Chromium	1	<1	102%	<1							
Copper	2	<2	93%	<2							
Lead	2	<2	105%	<2							
Nickel	1	<1	99%	<1							
Zinc	5	<5	110%	<5							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E020.2/E030.2: 0.5g digested with nitric/hydrochloric acid . Analysis by AAS and/or ICP-OES.

LabMark
ENVIRONMENTAL LABORATORIES

Laboratory Report No: E049886
Client Name: Douglas Partners
Contact Name: Lindsay Rockett
Client Reference: Randwick, Spectator and Stable Precincts 71976.01

Date: 14/09/10

This report supercedes reports issued on: 06/09/10

Final
Certificate
of Analysis

Laboratory Identification		275900									
Sample Identification		BD4/230810									
Depth (m)		--									
Sampling Date recorded on COC		23/8/10									
Laboratory Extraction (Preparation) Date		27/8/10									
Laboratory Analysis Date		30/8/10									
Method : E005.2											
Moisture	**EQL**										
Moisture	--	4									

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

mgt LabMark ENVIRONMENTAL LABORATORIES

Report Date : 27/08/2010
Report Time : 8:44:23AM

Sample Receipt Notice (SRN) for E049886

Quality, Service, Support

Client Details		Laboratory Reference Information	
Client Name:	Douglas Partners	Please have this information ready when contacting MGT Labmark.	
Client Phone:	02 9809 0666		
Client Fax:	02 98094095	Laboratory Report:	E049886
Contact Name:	Lindsay Rockett	Quotation Number:	- Not provided, standard prices apply
Contact Email:	rockettl@douglaspartners.com.au	Laboratory Address:	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	96 Hermitage Road West Ryde NSW 2114	Phone:	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Randwick, Spectator and Stable Precincts	Sample Receipt Contact:	Leanne Knowles
Project Number:	71976.01	Email:	leanne.knowles@labmark.com.au
CoC Serial Number:	- Not provided -	Reporting Contact:	Leanne Knowles
Purchase Order:	- Not provided -	Email:	leanne.knowles@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL		
Date Sampled (earliest date):	23/08/2010	NATA Accreditation:	13542
Date Samples Received:	26/08/2010	AQIS Approval:	NO356 (Sydney)
Date Sample Receipt Notice issued:	27/08/2010	AQIS Entry Permit:	200521534 (Sydney)
Date Preliminary Report Due:	06/09/2010		
Client TAT Request Date:	06/09/2010		

Reporting Requirements: Electronic Data Download required: No

Invoice Number: 10EA11215

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not used .
Sample container & chemical preservation suitable .

Comments: Hg subcontracted to MGT Labmark Melbourne - results may be delayed | TPH as C6-C36 unless otherwise instructed

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:
MGT LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from MGT LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:
Reported by MGT LabMark Environmental Melbourne, NATA accreditation No. 1645.

Thank you for choosing MGT Labmark to analyse your project samples.
Additional information on www.mgtlabmark.com.au

mgt LabMark ENVIRONMENTAL LABORATORIES

Report Date : 27/08/2010
Report Time : 8:44:23AM

Sample **Receipt** Notice (SRN) for **E049886**

Quality, Service, Support

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request (refer to SRN comments section on first page for external subcontracting method details). Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

				Requested Analysis																				
No.	**Date**	**Depth**	**Client Sample ID**	Acid extractable metals - mercury	Acid extractable metals	Moisture	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	External Analysis by MGT LabMark														
275900	23/08		BD4/230810	●	●	●	●	●	●	●														
			Totals:	1	1	1	1	1	1	1														

'PREP Not Reported' refers to an internal laboratory instruction - client confirmation of this parameter is not required.

Thank you for choosing MGT Labmark to analyse your project samples.
Additional information on www.mgtlabmark.com.au

mgt LabMark ENVIRONMENTAL LABORATORIES

Report Date : 27/08/2010
Report Time : 8:44:23AM

Sample **Receipt** Notice (SRN) for **E049886**

Quality, Service, Support

No.	Date	Depth	Client Sample ID	Requested Analysis																			
				M7 - MET-AAS_S	HG-T_S Mercury																		
275900	23/08		BD4/230810	●	●																		
			Totals:	1	1																		

Thank you for choosing MGT Labmark to analyse your project samples.
Additional information on www.mgtlabmark.com.au

Douglas Partners
Geotechnics • Environment • Groundwater

CHAIN OF CUSTODY

Project Name: Randwick, Spectator and Stable Precincts – Contam Asses
Project No: 71976.01..... Sampler: .....NSA... .....
Project Mgr: Lidsay Rockett.....Mob. Phone: 0409 773 636.....
Email: nizam.ahamed@douglaspartners.com.au.....@douglaspartners.com.au
Date Required: STD Turn around..... Lab Quote No. .....

To: SGS Australia Pty Ltd
Unit 16, Maddox Street, Alexandria
Attn: Simon Mathews
..... Phone: 02 8594 0400 Fax: 02 99872151

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type S - soil W – water	Container type	Analytes: As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	BTEX/ TPH	OCPs/ OPPs	PCBs	PAH	Phenols	VOCs	Other Asbestos	Notes
TP106/	0-0.3	25													✓	✓		✓		✓	
TP106/	0.4-1.0	26																			
TP105/	0.3-0.6	27													✓	✓		✓		✓	
TP105/	1-1.5	28																			
TP104/	0-0.2	29													✓	✓		✓		✓	
TP104/	0.3-0.8	30													✓	✓		✓		✓	
TP104/	1-1.6	31																			
TP103/	0-0.3	32													✓	✓		✓		✓	
TP103/	0.4-0.9	33																			
TP107/	0-0.3	34	26/8	CD											✓	✓		✓		✓	
BD4/230810		35	25/8	900		✓	✓	✓	✓	✓	✓	✓	✓	TPH							→ PLEASE FORWARD INTERLAB SAMPLE TO LABMARK.

Lab Report No. E049886
Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114
Phone: (02) 9809 0666
Fax: (02) 9809 4095

Relinquished by: Nizam Signed: Date & Time: 25/8 8:30 Received By: CP Date & Time: 25/8/10 10:40 am

Relinquished by: Signed: Date & Time: Received By: Date & Time:

mgt LabMark
ENVIRONMENTAL LABORATORIES

ilac-MRA NATA
Accreditation No. 1645

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No:	E050032	Cover Page 1 of 3
Client Name:	Douglas Partners	plus Sample Results
Client Reference:	Randwick, Spec and Stable Precinct Contam	
Contact Name:	Lindsay Rockett	
Chain of Custody No:	na	Date Received: 07/09/2010
Sample Matrix:	WATER	Date Reported: 15/09/2010

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occured within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy:	matrix spike:	1 in first 5-20, then 1 every 20 samples
	lcs, crm, method:	1 per analytical batch
	surrogate spike:	addition per target organic method
Precision:	laboratory duplicate:	1 in first 5-10, then 1 every 10 samples
	laboratory triplicate:	re-extracted & reported when duplicate RPD values exceed acceptance criteria
Holding Times:	soils, waters:	Refer to LabMark Preservation & THT table VOC's 14 days water / soil VAC's 7 days water or 14 days acidified VAC's 14 days soil SVOC's 7 days water, 14 days soil Pesticides 7 days water, 14 days soil Metals 6 months general elements Mercury 28 days
Confirmation:	target organic analysis:	GC/MS, or confirmatory column
Sensitivity:	EQL:	Typically 2-5 x Method Detection Limit (MDL)

QUALITY CONTROL GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy:	spike, lcs, crm surrogate:	general analytes 70% - 130% recovery phenol analytes 50% - 130% recovery organophosphorous pesticide analytes 60% - 130% recovery phenoxy acid herbicides, organotin 50% - 130% recovery
	anion/cation bal:	+/- 10% (0-3 meq/l), +/- 5% (>3 meq/l)
Precision:	method blank:	not detected >95% of the reported EQL
	duplicate lab RPD (metals):	0-30% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)
	duplicate lab RPD:	0-50% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)

QUALITY CONTROL ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy:	spike, lcs, crm surrogate:	analyte specific recovery data <3xsd of historical mean
Uncertainty:	spike, lcs:	measurement calculated from historical analyte specific control charts

RESULT ANNOTATION

Data Quality Objective	s:	matrix spike recovery	p:	pending	bcs: batch specific lcs
Data Quality Indicator	d:	laboratory duplicate	lcs:	laboratory control sample	bmb: batch specific mb
Estimated Quantitation Limit	t:	laboratory triplicate	crm:	certified reference material	
not applicable	r:	RPD relative % difference	mb:	method blank	

Laura Schofield
Quality Control (Report signatory)
laura.schofield@labmark.com.au

Laura Schofield
Authorising Chemist (NATA signatory)
laura.schofield@labmark.com.au

Ryan Hamilton
Authorising Chemist (NATA signatory)
ryan.hamilton@labmark.com.au

Environmental Laboratory Industry Group
Foundation Member

Laboratory Report: E050032

NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.

B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.

C. Laboratory QA/QC samples are specific to this project.

D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.

E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.

F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.

G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomolous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.

H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.

I. LabMark shall maintain an official copy of this Certificate of Analysis for all tracable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

A. SRN issued to client upon sample receipt & login verification.

B. Preservation & sampling date details specified on COC and SRN, unless noted.

C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

A. NATA accreditation held for each in-house method and sample matrix type reported, unless noted below (Refer to subcontracted test reports for NATA accreditation status).

B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 1645.

C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.
Reported by mgt LabMark Environmental Melbourne, NATA accreditation No. 1645.

Laboratory Report: E050032

Cover Page 3 of 3

4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **WATER**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	Polyaromatic Hydrocarbons (PAH)	1	0	0%	0	0	0%
2	Filtered mercury	1	0	0%	0	0	0%

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

5. ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

A. All tests were conducted by mgt LabMark Environmental Sydney, NATA accreditation No. 13542, unless indicated below.
B. The following test was conducted by mgt LabMark Environmental Melbourne, NATA accreditation No. 1645. :- Metals. Please see attached report.

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

LabMark
ENVIRONMENTAL LABORATORIES

Laboratory Report No: E050032
Client Name: Douglas Partners
Contact Name: Lindsay Rockett
Client Reference: Randwick, Spec and Stable Precinct Contam 71976.01

Date: 15/09/10
This report supercedes reports issued on: N/A

Final
Certificate
of Analysis

Laboratory Identification		277132	lcs	mb							
Sample Identification		BD2/030910	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		3/9/10	--	--							
Laboratory Extraction (Preparation) Date		9/9/10	9/9/10	9/9/10							
Laboratory Analysis Date		10/9/10	10/9/10	10/9/10							
Method : E007.1											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	1	<1	80%	<1							
Acenaphthylene	1	<1	104%	<1							
Acenaphthene	1	<1	74%	<1							
Fluorene	1	<1	76%	<1							
Phenanthrene	1	<1	78%	<1							
Anthracene	1	<1	85%	<1							
Fluoranthene	1	<1	79%	<1							
Pyrene	1	<1	76%	<1							
Benz(a)anthracene	1	<1	81%	<1							
Chrysene	1	<1	76%	<1							
Benzo(b)&(k)fluoranthene	2	<2	74%	<2							
Benzo(a) pyrene	1	<1	94%	<1							
Indeno(1,2,3-c,d)pyrene	1	<1	80%	<1							
Dibenz(a,h)anthracene	1	<1	77%	<1							
Benzo(g,h,i)perylene	1	<1	93%	<1							
Sum of reported PAHs	--	--	--	--							
2-FBP (Surr @ 250ug/l)	--	*82%*	*75%*	*78%*							
TP-d14 (Surr @ 250ug/l)	--	*83%*	*80%*	*80%*							

Results expressed in ug/l unless otherwise specified

Comments:

E007.1: Triple extraction with DCM. Analysis by GC/MS.

LabMark
ENVIRONMENTAL LABORATORIES

Laboratory Report No: E050032
Client Name: Douglas Partners
Contact Name: Lindsay Rockett
Client Reference: Randwick, Spec and Stable Precinct Contam 71976.01

Date: 15/09/10

This report supercedes reports issued on: N/A

Final
Certificate
of Analysis

Laboratory Identification		277132	lcs	mb							
Sample Identification		BD2/030910	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		3/9/10	--	--							
Laboratory Extraction (Preparation) Date		9/9/10	9/9/10	9/9/10							
Laboratory Analysis Date		10/9/10	10/9/10	10/9/10							
Method : E026.1											
Filtered mercury	**EQL**										
Mercury	0.1	<0.1	94%	<0.1							

Results expressed in ug/l unless otherwise specified

Comments:

E026.1: Analysis by CV-ICP-MS or FIMS following BrCl pre-treatment.

mgt LabMark
ENVIRONMENTAL LABORATORIES

Certificate of Analysis

mgt-LabMark
Unit 1/8 Leighton Place
Asquith
NSW 2077

Attention: Ryan Hamilton

NATA
WORLD RECOGNISED ACCREDITATION

NATA Accredited
Laboratory Number 1645

The tests covered by this document have been performed in accordance with NATA and ISO/IES 17025 and are traceable to national standards of measurement.

Project	276075
Client Reference	E050032 DOUGLAS_SY
Received Date	Sep 09, 2010

Client Sample ID			**BD2/030910**
Sample Matrix			**Water**
mgt-Labmark Sample No.			**10-Se21395**
Date Sampled			**Sep 03, 2010**
Test/Reference	PQL	Unit	
Metals (7) filtered			
Arsenic (filtered)	0.005	mg/L	< 0.005
Cadmium (filtered)	0.0002	mg/L	< 0.0002
Chromium (filtered)	0.005	mg/L	< 0.005
Copper (filtered)	0.005	mg/L	< 0.005
Lead (filtered)	0.005	mg/L	< 0.005
Nickel (filtered)	0.005	mg/L	< 0.005
Zinc (filtered)	0.005	mg/L	0.009

Sample History

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

Description	Testing Site	Extracted	Analysed
Metals (7) filtered - Method: LM-LTM-MET-3100	Clayton	Sep 09, 2010	Sep 10, 2010

mgt-Labmark Internal Quality Control Review

General

1. 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.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Result are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on water are performed on homogenized, unfiltered sample, unless noted otherwise.
6. Samples were analysed on an as received basis.
7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sampling and Preservation Chart for Soils & Waters' for holding times. (LM-FOR-ADM-020)
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, suitability qualified results may still be reported.

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

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

UNITS

mg/kg: milligrams per Kilogram	**mg/l:** milligrams per litre
ug/l: micrograms per litre	**ppm:** Parts per million
ppb: Parts per billion	**%:** Percentage
org/100ml: Organisms per 100 millilitres	**NTU:** 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 clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE:	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA:	United States Environment Protection Authority
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

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 LOR : RPD must lie between 0-50%
Results >20 times LOR : RPD must lie between 0-20%
Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. 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.
2. 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 a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Orgaonchlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. 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.
6. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
7. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
8. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
9. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two 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.

Quality Control Results

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Method Blank							
Metals (7) filtered LM-LTM-MET-3100							
Arsenic (filtered)	mg/L	< 0.005			0.005	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium (filtered)	mg/L	< 0.005			0.005	Pass	
Copper (filtered)	mg/L	< 0.005			0.005	Pass	
Lead (filtered)	mg/L	< 0.005			0.005	Pass	
Nickel (filtered)	mg/L	< 0.005			0.005	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Metals (7) filtered LM-LTM-MET-3100		Result 1					
Arsenic (filtered)	%	95			70-130	Pass	
Cadmium (filtered)	%	98			70-130	Pass	
Chromium (filtered)	%	93			70-130	Pass	
Copper (filtered)	%	95			70-130	Pass	
Lead (filtered)	%	94			70-130	Pass	
Nickel (filtered)	%	94			70-130	Pass	
Zinc (filtered)	%	94			70-130	Pass	
[Duplicate of 10-Se21423 - BATCH]							
Metals (7) filtered		Result 1	Result 2	RPD			
Arsenic (filtered)	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Cadmium (filtered)	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Copper (filtered)	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Lead (filtered)	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Nickel (filtered)	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Zinc (filtered)	mg/L	0.013	0.013	1.0	30%	Pass	
[Spike of 10-Se21395] - % Recovery							
Metals (7) filtered		Result 1					
Arsenic (filtered)	%	98			70 - 130	Pass	
Cadmium (filtered)	%	107			70 - 130	Pass	
Chromium (filtered)	%	95			70 - 130	Pass	
Copper (filtered)	%	98			70 - 130	Pass	
Lead (filtered)	%	98			70 - 130	Pass	
Nickel (filtered)	%	97			70 - 130	Pass	
Zinc (filtered)	%	106			70 - 130	Pass	

Comments

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
Samples received with Zero Headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Glenn Jackson
NATA Signatory

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Report Date : 7/09/2010
Report Time : 3:21:07PM

mgt LabMark ENVIRONMENTAL LABORATORIES

Sample Receipt Notice (SRN) for E050032

Quality, Service, Support

Client Details

Client Name:	Douglas Partners
Client Phone:	02 9809 0666
Client Fax:	02 98094095
Contact Name:	Lindsay Rockett
Contact Email:	rockettl@douglaspartners.com.au
Client Address:	96 Hermitage Road West Ryde NSW 2114
Project Name:	Randwick, Spec and Stable Precinct Contam
Project Number:	71976.01
CoC Serial Number:	- Not provided -
Purchase Order:	- Not provided -
Surcharge:	No surcharge applied (results by 6:30pm on due date)
Sample Matrix:	WATER

Laboratory Reference Information

Please have this information ready when contacting MGT Labmark.

Laboratory Report:	**E050032**
Quotation Number:	- Not provided, standard prices apply
Laboratory Address:	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Phone:	61 2 9476 6533
Fax:	61 2 9476 8219
Sample Receipt Contact:	Leanne Knowles
Email:	leanne.knowles@labmark.com.au
Reporting Contact:	Leanne Knowles
Email:	leanne.knowles@labmark.com.au

Date Sampled (earliest date):	03/09/2010	**NATA Accreditation:**	13542
Date Samples Received:	07/09/2010	**AQIS Approval:**	NO356 (Sydney)
Date Sample Receipt Notice issued:	07/09/2010	**AQIS Entry Permit:**	200521534 (Sydney)
Date Preliminary Report Due:	16/09/2010		
Client TAT Request Date:	16/09/2010		

Reporting Requirements: Electronic Data Download required: No

Invoice Number: 10EA11362

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Ice bricks .
Samples received chilled.
Security seals not used .
Sample container & chemical preservation suitable .

Comments: Metals - As, Cd, Cr, Cu, Pb, Ni, Zn (Dissolved to reflect sample preservation) by MGT Labmark Melbourne - results may be delayed

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:
MGT LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from MGT LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:
Reported by MGT LabMark Environmental Melbourne, NATA accreditation No. 1645.

Thank you for choosing **MGT Labmark to analyse your project samples.**
Additional information on **www.mgtlabmark.com.au**

mgt LabMark
ENVIRONMENTAL LABORATORIES

Report Date : 7/09/2010
Report Time : 3:21:07PM

Sample **Receipt** Notice (SRN) for **E050032**

Quality, Service, Support

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request (refer to SRN comments section on first page for external subcontracting method details). Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

			Requested Analysis																		
No.	Date	Depth	Client Sample ID	Filtered mercury	Filtered metals (M7)	Polyaromatic Hydrocarbons (PAH)	PREP Not Reported	External Analysis by MGT LabMark													
277132	03/09		BD2/030910	●	●	●	●	●													
			Totals:	1	1	1	1	1													

'PREP Not Reported' refers to an internal laboratory instruction - client confirmation of this parameter is not required.

Thank you for choosing MGT Labmark to analyse your project samples.
Additional information on www.mgtlabmark.com.au

mgt LabMark ENVIRONMENTAL LABORATORIES

Report Date : 7/09/2010
Report Time : 3:21:07PM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E050032**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-F_W																			
277132	03/09		BD2/030910	●																			
			Totals:	1																			

Thank you for choosing MGT Labmark to analyse your project samples.
Additional information on www.mgtlabmark.com.au

Douglas Partners
Geotechnics · Environment · Groundwater

CHAIN OF CUSTODY

Project Name: Randwick, Spec and Stable Precinct Contam Assessment ...
Project No: 71976.01..... Sampler: .....NSA... .....
Project Mgr: Lindsay Rockett.....Mob. Phone: 0409 773 636.....
Email: nizam.ahamed@douglaspartners.com.au..... @douglaspartners.com.au
Date Required: STD Turn around..... Lab Quote No. ....

To: SGS Australia Pty Ltd
Unit 16, Maddox Street, Alexandria
Attn: Simon Mathews
..... Phone: 02 8594 0400 Fax: 02 99872151

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type S - soil W - water	Container type	Analytes: As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	BTEX/ TPH	OCPs/ OPPs TRACE	PCBs TRACE	PAH	Phenols	VOCs	Other: CHLORIDE	Other: SULPHATE	PH	Notes
BH2						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	
BH5						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	
BD1/0509/10						✓	✓	✓	✓	✓	✓	✓	✓				✓						
BD2/030910		277132	3/9/10	W		✓	✓	✓	✓	✓	✓	✓	✓				✓						→ INTERLAB
TS1/~~BB~~														✓									SAMPLE. PLEASE
~~TB2~~ TB1														✓									FORWARD TO LABMARK.

Lab Report No. E050032
Phone: (02) 9809 0666
Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114
Fax: (02) 9809 4095

Relinquished by:	Nizam	Signed:	Date & Time: 06/9/10 11am	Received By:	Date & Time:
Relinquished by:		Signed:	Date & Time:	Received By:	Date & Time: 7/9/10 1500

ANALYTICAL REPORT

1 September 2010

Douglas Partners Pty Ltd
96 Hermitage Road
WEST RYDE
NSW 2114

Attention: **Nizam Ahamed**

Your Reference: 71976-01 - Randwick-Spectator and Stable Precincts

Our Reference: SE80889 Samples: 54 Soils
Received: 25/08/2010

Preliminary Report Sent: 31/08/10

These samples were analysed in accordance with your written instructions.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Production Manager:	Huong Crawford	Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Dong Liang
Quality Manager

Ravee Sivasubramaniam
Asbestos Signatory

Ly Kim Ha
Organics Signatory

Huong Crawford
Metals Signatory

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

MBTEX in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 BH1/ 0.3-0.5 Soil	SE80889-2 BH2/ 0.3-0.6 Soil	SE80889-3 BH2/ 0.7-1.0 Soil	SE80889-4 BH2/ 4.1-4.5 Soil	SE80889-5 BH3/ 0.3-0.6 Soil
Date Extracted (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	73	66	71	68	67

MBTEX in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-6 BH4/ 0.4-0.6 Soil	SE80889-7 BH5/ 0-0.3 Soil	SE80889-8 BH5/ 3.4-3.9 Soil	SE80889-9 BH6/ 0.3-0.6 Soil	SE80889-10 BH6/ 0.6-1.0 Soil
Date Extracted (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	72	64	70	60	69

MBTEX in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-13 TP101/ 0-0.3 Soil	SE80889-14 TP102/ 0-0.3 Soil	SE80889-15 TP102/ 0.4-0.8 Soil	SE80889-16 TP110/ 0-0.3 Soil	SE80889-17 TP110/ 0.5-1.0 Soil
Date Extracted (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	64	65	61	63	76

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

MBTEX in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-18 TP110/ 1.5-2.0 Soil	SE80889-19 TP109/ 0-0.3 Soil	SE80889-20 TP109/ 0.6-1.1 Soil	SE80889-21 TP108/ 0-0.3 Soil	SE80889-22 TP108/ 0.6-1.1 Soil
Date Extracted (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	90	87	76	70	72

MBTEX in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-23 TP107/ 0.4-0.6 Soil	SE80889-24 TP107/ 0.8-1.3 Soil	SE80889-25 TP106/ 0-0.3 Soil	SE80889-26 TP106/ 0.4-1.0 Soil	SE80889-27 TP105/ 0.3-0.6 Soil
Date Extracted (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	65	66	73	73	67

MBTEX in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-28 TP105/ 1-1.5 Soil	SE80889-29 TP104/ 0-0.2 Soil	SE80889-30 TP104/ 0.3-0.8 Soil	SE80889-31 TP104/ 1-1.6 Soil	SE80889-32 TP103/ 0-0.3 Soil
Date Extracted (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	70	62	74	60	71

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

MBTEX in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-3 3 TP103/ 0.4-0.9 Soil	SE80889-3 4 TP107/ 0-0.3 Soil	SE80889-5 1 TB1/ 200810 Soil	SE80889-5 3 TB/ 230810 Soil
Date Extracted (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (MBTEX)		27/08/2010	27/08/2010	27/08/2010	27/08/2010
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	76	63	66	81

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

BTEX in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-52 TS/ 200810 Soil	SE80889-54 TS/ 230810 Soil
Date Extracted (BTEX)		27/08/2010	27/08/2010
Date Analysed (BTEX)		27/08/2010	27/08/2010
Benzene	mg/kg	60%	90%
Toluene	mg/kg	66%	83%
Ethylbenzene	mg/kg	84%	84%
Total Xylenes	mg/kg	84%	86%
BTEX Surrogate (%)	%	70	100

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 BH1/ 0.3-0.5 Soil	SE80889-2 BH2/ 0.3-0.6 Soil	SE80889-3 BH2/ 0.7-1.0 Soil	SE80889-4 BH2/ 4.1-4.5 Soil	SE80889-5 BH3/ 0.3-0.6 Soil
Date Extracted (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50	<50	<50

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-6 BH4/ 0.4-0.6 Soil	SE80889-7 BH5/ 0-0.3 Soil	SE80889-8 BH5/ 3.4-3.9 Soil	SE80889-9 BH6/ 0.3-0.6 Soil	SE80889-10 BH6/ 0.6-1.0 Soil
Date Extracted (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50	<50	<50

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-11 BD1/ 200810 Soil	SE80889-12 BD3/ 200810 Soil	SE80889-13 TP101/ 0-0.3 Soil	SE80889-14 TP102/ 0-0.3 Soil	SE80889-15 TP102/ 0.4-0.8 Soil
Date Extracted (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	120	61	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	62	<50	<50

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-16 TP110/ 0-0.3 Soil	SE80889-17 TP110/ 0.5-1.0 Soil	SE80889-18 TP110/ 1.5-2.0 Soil	SE80889-19 TP109/ 0-0.3 Soil	SE80889-20 TP109/ 0.6-1.1 Soil
Date Extracted (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	62	160	460
TRH C_{29} - C_{36}	mg/kg	57	<50	<50	140	370

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-21 TP108/ 0-0.3 Soil	SE80889-22 TP108/ 0.6-1.1 Soil	SE80889-23 TP107/ 0.4-0.6 Soil	SE80889-24 TP107/ 0.8-1.3 Soil	SE80889-25 TP106/ 0-0.3 Soil
Date Extracted (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	79	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50	<50	<50

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-26 TP106/ 0.4-1.0 Soil	SE80889-27 TP105/ 0.3-0.6 Soil	SE80889-28 TP105/ 1-1.5 Soil	SE80889-29 TP104/ 0-0.2 Soil	SE80889-30 TP104/ 0.3-0.8 Soil
Date Extracted (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	150	<50	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	85	<50	<50	<50	<50

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-31 TP104/ 1-1.6 Soil	SE80889-32 TP103/ 0-0.3 Soil	SE80889-33 TP103/ 0.4-0.9 Soil	SE80889-34 TP107/ 0-0.3 Soil	SE80889-51 TB1/ 200810 Soil
Date Extracted (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C6-C9 PT)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (TRH C10-C36)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50	<50	<50

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-53 TB/ 230810 Soil
Date Extracted (TRH C6-C9 PT)		27/08/2010
Date Analysed (TRH C6-C9 PT)		27/08/2010
TRH C_6 - C_9 P&T	mg/kg	<20
Date Extracted (TRH C10-C36)		27/08/2010
Date Analysed (TRH C10-C36)		27/08/2010
TRH C_{10} - C_{14}	mg/kg	<20
TRH C_{15} - C_{28}	mg/kg	<50
TRH C_{29} - C_{36}	mg/kg	<50

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

PAHs in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 BH1/ 0.3-0.5 Soil	SE80889-2 BH2/ 0.3-0.6 Soil	SE80889-3 BH2/ 0.7-1.0 Soil	SE80889-4 BH2/ 4.1-4.5 Soil	SE80889-5 BH3/ 0.3-0.6 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	0.10	<0.10	<0.10	0.10
Pyrene	mg/kg	<0.10	0.10	<0.10	<0.10	0.10
Benzo[*a*]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Chrysene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[*b,k*]fluoranthene	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo[*a*]pyrene	mg/kg	<0.05	0.07	<0.05	<0.05	0.07
Indeno[*123-cd*]pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.7	<1.77	<1.7	<1.7	<1.77
Nitrobenzene-d5	%	94	93	93	90	92
2-Fluorobiphenyl	%	94	92	89	88	92
p -Terphenyl-*d14*	%	76	87	84	86	64

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

PAHs in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-6 BH4/ 0.4-0.6 Soil	SE80889-7 BH5/ 0-0.3 Soil	SE80889-8 BH5/ 3.4-3.9 Soil	SE80889-9 BH6/ 0.3-0.6 Soil	SE80889-10 BH6/ 0.6-1.0 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	0.34	<0.10	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	0.50	<0.10	<0.10	<0.10
Pyrene	mg/kg	<0.10	0.54	<0.10	0.11	<0.10
Benzo[*a*]anthracene	mg/kg	<0.10	0.34	<0.10	<0.10	<0.10
Chrysene	mg/kg	<0.10	0.28	<0.10	<0.10	<0.10
Benzo[*b,k*]fluoranthene	mg/kg	<0.20	0.52	<0.20	<0.20	<0.20
Benzo[*a*]pyrene	mg/kg	<0.05	0.30	<0.05	0.10	<0.05
Indeno[*123-cd*]pyrene	mg/kg	<0.10	0.15	<0.10	<0.10	<0.10
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	<0.10	0.13	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.7	<3.90	<1.7	<1.81	<1.7
Nitrobenzene-d5	%	92	92	83	90	96
2-Fluorobiphenyl	%	94	92	80	90	92
p -Terphenyl-*d14*	%	74	72	80	72	87

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

PAHs in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-13 TP101/ 0-0.3 Soil	SE80889-14 TP102/ 0-0.3 Soil	SE80889-15 TP102/ 0.4-0.8 Soil	SE80889-16 TP110/ 0-0.3 Soil	SE80889-17 TP110/ 0.5-1.0 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	0.43	0.23	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	0.19	0.11	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	4.6	2.0	0.33	<0.10	0.32
Anthracene	mg/kg	0.93	0.43	0.11	<0.10	<0.10
Fluoranthene	mg/kg	8.2	2.5	1.1	0.59	1.1
Pyrene	mg/kg	8.4	1.9	1.1	0.64	1.2
Benzo[*a*]anthracene	mg/kg	5.0	1.2	0.62	0.34	0.79
Chrysene	mg/kg	3.5	1.0	0.54	0.32	0.71
Benzo[*b,k*]fluoranthene	mg/kg	5.7	1.6	1.1	0.74	1.5
Benzo[*a*]pyrene	mg/kg	3.6	1.0	0.66	0.43	0.87
Indeno[*123-cd*]pyrene	mg/kg	1.5	0.47	0.34	0.25	0.54
Dibenzo[*ah*]anthracene	mg/kg	0.30	<0.10	<0.10	<0.10	0.11
Benzo[*ghi*]perylene	mg/kg	1.2	0.39	0.46	0.23	0.46
Total PAHs (sum)	mg/kg	<44.04	<13.44	<7.14	<4.44	<8.35
Nitrobenzene-d5	%	106	88	89	96	96
2-Fluorobiphenyl	%	106	90	87	96	90
p -Terphenyl-*d14*	%	88	62	82	72	82

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

PAHs in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-18 TP110/ 1.5-2.0 Soil	SE80889-19 TP109/ 0-0.3 Soil	SE80889-20 TP109/ 0.6-1.1 Soil	SE80889-21 TP108/ 0-0.3 Soil	SE80889-22 TP108/ 0.6-1.1 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Naphthalene	mg/kg	<0.10	0.17	0.12	<0.10	0.15
2-Methylnaphthalene	mg/kg	<0.10	0.12	<0.10	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	0.13	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	0.29	0.95	1.4	<0.10	1.2
Acenaphthene	mg/kg	<0.10	<0.10	0.20	<0.10	<0.10
Fluorene	mg/kg	<0.10	0.47	0.39	<0.10	0.19
Phenanthrene	mg/kg	0.65	4.0	5.9	0.61	3.0
Anthracene	mg/kg	0.34	1.2	2.2	0.14	0.97
Fluoranthene	mg/kg	2.6	6.0	17	1.2	7.2
Pyrene	mg/kg	2.8	5.6	17	1.2	6.7
Benzo[*a*]anthracene	mg/kg	1.7	3.2	13	0.64	4.2
Chrysene	mg/kg	1.6	2.6	10	0.43	3.3
Benzo[*b,k*]fluoranthene	mg/kg	3.7	5.6	18	0.79	7.2
Benzo[*a*]pyrene	mg/kg	2.3	3.1	11	0.40	4.1
Indeno[*123-cd*]pyrene	mg/kg	1.4	2.0	6.4	0.19	2.5
Dibenzo[*ah*]anthracene	mg/kg	0.24	0.37	1.6	<0.10	0.63
Benzo[*ghi*]perylene	mg/kg	2.0	2.4	7.8	0.14	2.8
Total PAHs (sum)	mg/kg	<20.06	<38.08	<112.34	<6.47	<44.37
Nitrobenzene-d5	%	89	87	94	90	90
2-Fluorobiphenyl	%	88	85	91	92	87
p -Terphenyl-*d14*	%	85	82	85	80	85

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

PAHs in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-23 TP107/ 0.4-0.6 Soil	SE80889-24 TP107/ 0.8-1.3 Soil	SE80889-25 TP106/ 0-0.3 Soil	SE80889-26 TP106/ 0.4-1.0 Soil	SE80889-27 TP105/ 0.3-0.6 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Naphthalene	mg/kg	0.10	<0.10	<0.10	0.27	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	0.26	<0.10	<0.10	1.8	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	0.24	<0.10	<0.10	0.53	<0.10
Phenanthrene	mg/kg	2.5	<0.10	0.23	6.2	<0.10
Anthracene	mg/kg	0.54	<0.10	<0.10	1.9	<0.10
Fluoranthene	mg/kg	2.6	<0.10	0.56	12	<0.10
Pyrene	mg/kg	2.4	<0.10	0.55	11	<0.10
Benzo[*a*]anthracene	mg/kg	1.2	<0.10	0.32	6.1	<0.10
Chrysene	mg/kg	0.88	<0.10	0.29	4.6	<0.10
Benzo[*b,k*]fluoranthene	mg/kg	1.2	<0.20	0.42	10	<0.20
Benzo[*a*]pyrene	mg/kg	0.60	<0.05	0.18	5.9	<0.05
Indeno[*123-cd*]pyrene	mg/kg	0.23	<0.10	<0.10	3.4	<0.10
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10	<0.10	0.82	<0.10
Benzo[*ghi*]perylene	mg/kg	0.16	<0.10	<0.10	3.8	<0.10
Total PAHs (sum)	mg/kg	<13.21	<1.7	<3.55	<68.14	<1.7
Nitrobenzene-d5	%	94	100	94	88	90
2-Fluorobiphenyl	%	88	95	88	88	96
p -Terphenyl-*d14*	%	74	92	78	85	76

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

PAHs in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-28 TP105/ 1-1.5 Soil	SE80889-29 TP104/ 0-0.2 Soil	SE80889-30 TP104/ 0.3-0.8 Soil	SE80889-31 TP104/ 1-1.6 Soil	SE80889-32 TP103/ 0-0.3 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	0.21	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	1.2	0.10	<0.10	0.15
Anthracene	mg/kg	<0.10	0.36	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	2.2	0.30	<0.10	<0.10
Pyrene	mg/kg	<0.10	2.4	0.31	<0.10	<0.10
Benzo[*a*]anthracene	mg/kg	<0.10	1.2	0.17	<0.10	<0.10
Chrysene	mg/kg	<0.10	1.1	0.16	<0.10	<0.10
Benzo[*b,k*]fluoranthene	mg/kg	<0.20	2.0	0.41	<0.20	<0.20
Benzo[*a*]pyrene	mg/kg	<0.05	1.2	0.21	<0.05	0.05
Indeno[*123-cd*]pyrene	mg/kg	<0.10	0.57	0.13	<0.10	<0.10
Dibenzo[*ah*]anthracene	mg/kg	<0.10	0.11	<0.10	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	<0.10	0.48	0.18	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.7	<13.54	<2.77	<1.7	<1.80
Nitrobenzene-d5	%	99	92	98	94	94
2-Fluorobiphenyl	%	97	98	95	91	100
p -Terphenyl-*d14*	%	89	70	87	84	74

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

PAHs in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-33 TP103/ 0.4-0.9 Soil	SE80889-34 TP107/ 0-0.3 Soil
Date Extracted		27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010
Naphthalene	mg/kg	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	<0.10
Pyrene	mg/kg	<0.10	<0.10
Benzo[*a*]anthracene	mg/kg	<0.10	<0.10
Chrysene	mg/kg	<0.10	<0.10
Benzo[*b,k*]fluoranthene	mg/kg	<0.20	<0.20
Benzo[*a*]pyrene	mg/kg	<0.05	0.05
Indeno[*123-cd*]pyrene	mg/kg	<0.10	<0.10
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.7	<1.7
Nitrobenzene-d5	%	93	90
2-Fluorobiphenyl	%	89	96
p -Terphenyl-*d14*	%	85	70

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

OC Pesticides in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 BH1/ 0.3-0.5 Soil	SE80889-5 BH3/ 0.3-0.6 Soil	SE80889-6 BH4/ 0.4-0.6 Soil	SE80889-7 BH5/ 0-0.3 Soil	SE80889-9 BH6/ 0.3-0.6 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
o,p-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Chlordane *(gamma)*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
cis-Chlordane *(alpha)*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p,p-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
o,p-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
o,p-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p,p-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p,p-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene *(Surrogate*	%	101	99	100	102	85

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

OC Pesticides in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-13 TP101/ 0-0.3 Soil	SE80889-14 TP102/ 0-0.3 Soil	SE80889-16 TP110/ 0-0.3 Soil	SE80889-17 TP110/ 0.5-1.0 Soil	SE80889-21 TP108/ 0-0.3 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
o,p-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Chlordane *(gamma)*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
cis-Chlordane *(alpha)*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p,p-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
o,p-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
o,p-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p,p-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p,p-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene *(Surrogate*	%	106	109	107	109	106

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

OC Pesticides in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-23 TP107/ 0.4-0.6 Soil	SE80889-25 TP106/ 0-0.3 Soil	SE80889-27 TP105/ 0.3-0.6 Soil	SE80889-29 TP104/ 0-0.2 Soil	SE80889-32 TP103/ 0-0.3 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
o,p-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Chlordane *(gamma)*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
cis-Chlordane *(alpha)*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
trans-Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p,p-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
o,p-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
o,p-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p,p-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
p,p-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene *(Surrogate*	%	101	88	97	97	99

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

OC Pesticides in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-3 4 TP107/ 0-0.3 Soil
Date Extracted		27/08/2010
Date Analysed		27/08/2010
HCB	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
Aldrin	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
o,p-DDE	mg/kg	<0.1
alpha-Endosulfan	mg/kg	<0.1
trans-Chlordane *(gamma)*	mg/kg	<0.1
cis-Chlordane *(alpha)*	mg/kg	<0.1
trans-Nonachlor	mg/kg	<0.1
p,p-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
o,p-DDD	mg/kg	<0.1
o,p-DDT	mg/kg	<0.1
beta-Endosulfan	mg/kg	<0.1
p,p-DDD	mg/kg	<0.1
p,p-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Endrin Ketone	mg/kg	<0.1
2,4,5,6-Tetrachloro-m-xylene *(Surrogate*	%	104

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

OP Pesticides in Soil by GCMS Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 BH1/ 0.3-0.5 Soil	SE80889-5 BH3/ 0.3-0.6 Soil	SE80889-6 BH4/ 0.4-0.6 Soil	SE80889-7 BH5/ 0-0.3 Soil	SE80889-9 BH6/ 0.3-0.6 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Dichlorvos	mg/kg	<1	<1	<1	<1	<1
Dimethoate	mg/kg	<1	<1	<1	<1	<1
Diazinon	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorpyrifos-ethyl	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Bromofos-ethyl	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
2-fluorobiphenyl (Surr)	%	94	92	94	92	90
d14-p-Terphenyl (Surr)	%	76	64	74	72	72

OP Pesticides in Soil by GCMS Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 3 TP101/ 0-0.3 Soil	SE80889-1 4 TP102/ 0-0.3 Soil	SE80889-1 6 TP110/ 0-0.3 Soil	SE80889-1 7 TP110/ 0.5-1.0 Soil	SE80889-2 1 TP108/ 0-0.3 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Dichlorvos	mg/kg	<1	<1	<1	<1	<1
Dimethoate	mg/kg	<1	<1	<1	<1	<1
Diazinon	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorpyrifos-ethyl	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Bromofos-ethyl	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
2-fluorobiphenyl (Surr)	%	106	90	96	90	92
d14-p-Terphenyl (Surr)	%	88	62	72	82	80

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

OP Pesticides in Soil by GCMS Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-23 TP107/ 0.4-0.6 Soil	SE80889-25 TP106/ 0-0.3 Soil	SE80889-27 TP105/ 0.3-0.6 Soil	SE80889-29 TP104/ 0-0.2 Soil	SE80889-32 TP103/ 0-0.3 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Dichlorvos	mg/kg	<1	<1	<1	<1	<1
Dimethoate	mg/kg	<1	<1	<1	<1	<1
Diazinon	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorpyrifos-ethyl	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Parathion-ethyl	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Bromofos-ethyl	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Methidathion	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Azinphos-methyl	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
2-fluorobiphenyl (Surr)	%	88	88	96	98	100
d14-p-Terphenyl (Surr)	%	74	78	76	70	74

OP Pesticides in Soil by GCMS Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-34 TP107/ 0-0.3 Soil
Date Extracted		27/08/2010
Date Analysed		27/08/2010
Dichlorvos	mg/kg	<1
Dimethoate	mg/kg	<1
Diazinon	mg/kg	<0.5
Fenitrothion	mg/kg	<0.2
Malathion	mg/kg	<0.20
Chlorpyrifos-ethyl	mg/kg	<0.2
Parathion-ethyl	mg/kg	<0.2
Bromofos-ethyl	mg/kg	<0.2
Methidathion	mg/kg	<0.5
Ethion	mg/kg	<0.2
Azinphos-methyl	mg/kg	<0.20
2-fluorobiphenyl (Surr)	%	96
d14-p-Terphenyl (Surr)	%	70

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

PCBs in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 BH1/ 0.3-0.5 Soil	SE80889-5 BH3/ 0.3-0.6 Soil	SE80889-6 BH4/ 0.4-0.6 Soil	SE80889-7 BH5/ 0-0.3 Soil	SE80889-9 BH6/ 0.3-0.6 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	101	99	100	102	85

PCBs in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 3 TP101/ 0-0.3 Soil	SE80889-1 4 TP102/ 0-0.3 Soil	SE80889-1 6 TP110/ 0-0.3 Soil	SE80889-1 7 TP110/ 0.5-1.0 Soil	SE80889-2 1 TP108/ 0-0.3 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	106	109	107	109	106

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

PCBs in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-23 TP107/ 0.4-0.6 Soil	SE80889-25 TP106/ 0-0.3 Soil	SE80889-27 TP105/ 0.3-0.6 Soil	SE80889-29 TP104/ 0-0.2 Soil	SE80889-32 TP103/ 0-0.3 Soil
Date Extracted		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	101	88	97	97	99

PCBs in Soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-34 TP107/ 0-0.3 Soil
Date Extracted		27/08/2010
Date Analysed		27/08/2010
Arochlor 1016	mg/kg	<0.1
Arochlor 1221	mg/kg	<0.1
Arochlor 1232	mg/kg	<0.1
Arochlor 1242	mg/kg	<0.1
Arochlor 1248	mg/kg	<0.1
Arochlor 1254	mg/kg	<0.1
Arochlor 1260	mg/kg	<0.1
Arochlor 1262	mg/kg	<0.1
Arochlor 1268	mg/kg	<0.1
Total Positive PCB	mg/kg	<0.90
PCB_Surrogate 1	%	104

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Total Phenolics in Soil Our Reference:	UNITS	SE80889-1	SE80889-5	SE80889-6	SE80889-9	SE80889-13
Your Reference	----------	BH1/ 0.3-0.5	BH3/ 0.3-0.6	BH4/ 0.4-0.6	BH6/ 0.3-0.6	TP101/ 0-0.3
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Extracted (Phenols)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Phenols)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Total Phenolics (as Phenol)	mg/kg	<0.1	<0.1	<0.1	<0.1	0.6

Total Phenolics in Soil Our Reference:	UNITS	SE80889-14	SE80889-16	SE80889-17	SE80889-21	SE80889-23
Your Reference	----------	TP102/ 0-0.3	TP110/ 0-0.3	TP110/ 0.5-1.0	TP108/ 0-0.3	TP107/ 0.4-0.6
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Extracted (Phenols)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Phenols)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Total Phenolics (as Phenol)	mg/kg	<0.1	0.4	0.8	0.7	<0.1

Total Phenolics in Soil Our Reference:	UNITS	SE80889-25	SE80889-27	SE80889-29	SE80889-32	SE80889-34
Your Reference	----------	TP106/ 0-0.3	TP105/ 0.3-0.6	TP104/ 0-0.2	TP103/ 0-0.3	TP107/ 0-0.3
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Extracted (Phenols)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Phenols)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Total Phenolics (as Phenol)	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Inorganics Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-2 BH2/ 0.3-0.6 Soil	SE80889-3 BH2/ 0.7-1.0 Soil	SE80889-7 BH5/ 0-0.3 Soil	SE80889-8 BH5/ 3.4-3.9 Soil	SE80889-3 6 BH2/ 1.1-1.5 Soil
Date Extracted- (pH 1:5 soil: Water)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (pH 1:5 Soil: Water)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
pH 1:5 soil:water	pH Units	9.1	7.0	7.2	5.5	6.5
Date Extracted (Conductivity)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Conductivity)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Electrical Conductivity 1:5 soil:water	µS/cm	97	13	15	14	13

Inorganics Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-3 7 BH2/ 1.6-2.0 Soil	SE80889-3 8 BH2/ 2.1-2.5 Soil	SE80889-3 9 BH2/ 2.6-3.0 Soil	SE80889-4 0 BH2/ 3.1-3.5 Soil	SE80889-4 1 BH2/ 3.6-4.0 Soil
Date Extracted- (pH 1:5 soil: Water)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (pH 1:5 Soil: Water)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
pH 1:5 soil:water	pH Units	7.0	7.9	7.1	7.4	7.3
Date Extracted (Conductivity)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Conductivity)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Electrical Conductivity 1:5 soil:water	µS/cm	18	27	77	40	38

Inorganics Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-4 2 BH2/ 5.1-5.5 Soil	SE80889-4 3 BH2/ 4.6-5.0 Soil	SE80889-4 4 BH5/ 0.6-1.0 Soil	SE80889-4 5 BH5/ 1.1-1.5 Soil	SE80889-4 6 BH5/ 1.6-2.0 Soil
Date Extracted- (pH 1:5 soil: Water)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (pH 1:5 Soil: Water)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
pH 1:5 soil:water	pH Units	6.5	6.4	6.7	6.4	6.1
Date Extracted (Conductivity)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Conductivity)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Electrical Conductivity 1:5 soil:water	µS/cm	23	26	6.0	7.2	5.5

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Inorganics Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-47 BH5/ 2.1-2.5 Soil	SE80889-48 BH5/ 2.6-3.0 Soil	SE80889-49 BH5/ 4-4.5 Soil	SE80889-50 BH5/ 5.5-6.0 Soil
Date Extracted- (pH 1:5 soil: Water)		27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (pH 1:5 Soil: Water)		27/08/2010	27/08/2010	27/08/2010	27/08/2010
pH 1:5 soil:water	pH Units	6.0	6.1	5.3	6.5
Date Extracted (Conductivity)		27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Conductivity)		27/08/2010	27/08/2010	27/08/2010	27/08/2010
Electrical Conductivity 1:5 soil:water	µS/cm	10	9.3	21	30

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 BH1/ 0.3-0.5 Soil	SE80889-2 BH2/ 0.3-0.6 Soil	SE80889-3 BH2/ 0.7-1.0 Soil	SE80889-4 BH2/ 4.1-4.5 Soil	SE80889-5 BH3/ 0.3-0.6 Soil
Date Extracted (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Arsenic	mg/kg	<3	<3	<3	<3	<3
Cadmium	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium	mg/kg	2.7	3.8	<0.3	1.4	5.3
Copper	mg/kg	2.7	50	3.3	1.3	6.9
Lead	mg/kg	5	280	<1	<1	75
Nickel	mg/kg	1.2	1.5	<0.5	1.4	2.7
Zinc	mg/kg	16	92	15	3.3	33

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-6 BH4/ 0.4-0.6 Soil	SE80889-7 BH5/ 0-0.3 Soil	SE80889-8 BH5/ 3.4-3.9 Soil	SE80889-9 BH6/ 0.3-0.6 Soil	SE80889-1 0 BH6/ 0.6-1.0 Soil
Date Extracted (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Arsenic	mg/kg	<3	<3	<3	<3	<3
Cadmium	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium	mg/kg	<0.3	1.1	1.1	3.9	<0.3
Copper	mg/kg	0.6	9.8	<0.5	5.2	1.3
Lead	mg/kg	<1	26	<1	8	<1
Nickel	mg/kg	<0.5	0.7	<0.5	1.3	<0.5
Zinc	mg/kg	0.91	9.1	0.6	8.9	2.0

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-11 BD1/ 200810 Soil	SE80889-12 BD3/ 200810 Soil	SE80889-13 TP101/ 0-0.3 Soil	SE80889-14 TP102/ 0-0.3 Soil	SE80889-15 TP102/ 0.4-0.8 Soil
Date Extracted (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Arsenic	mg/kg	<3	<3	4	<3	<3
Cadmium	mg/kg	<0.3	<0.3	0.4	<0.3	<0.3
Chromium	mg/kg	1.8	<0.3	11	8.1	7.3
Copper	mg/kg	34	1.3	33	74	18
Lead	mg/kg	73	<1	69	71	120
Nickel	mg/kg	<0.5	<0.5	5.2	7.5	1.4
Zinc	mg/kg	58	2.2	75	83	94

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-16 TP110/ 0-0.3 Soil	SE80889-17 TP110/ 0.5-1.0 Soil	SE80889-18 TP110/ 1.5-2.0 Soil	SE80889-19 TP109/ 0-0.3 Soil	SE80889-20 TP109/ 0.6-1.1 Soil
Date Extracted (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Arsenic	mg/kg	<3	4	4	8	5
Cadmium	mg/kg	<0.3	0.4	0.4	2.5	0.9
Chromium	mg/kg	4.5	5.4	5.0	19	7.3
Copper	mg/kg	26	19	28	180	76
Lead	mg/kg	110	62	140	1,500	300
Nickel	mg/kg	7.4	10	14	19	6.8
Zinc	mg/kg	98	78	170	1,100	390

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-21 TP108/ 0-0.3 Soil	SE80889-22 TP108/ 0.6-1.1 Soil	SE80889-23 TP107/ 0.4-0.6 Soil	SE80889-24 TP107/ 0.8-1.3 Soil	SE80889-25 TP106/ 0-0.3 Soil
Date Extracted (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Arsenic	mg/kg	<3	4	<3	<3	<3
Cadmium	mg/kg	0.4	<0.3	<0.3	<0.3	<0.3
Chromium	mg/kg	4.7	11	4.6	<0.3	6.6
Copper	mg/kg	23	59	25	1.2	33
Lead	mg/kg	72	120	41	2	47
Nickel	mg/kg	15	3.1	13	<0.5	22
Zinc	mg/kg	120	120	39	1.7	75

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-26 TP106/ 0.4-1.0 Soil	SE80889-27 TP105/ 0.3-0.6 Soil	SE80889-28 TP105/ 1-1.5 Soil	SE80889-29 TP104/ 0-0.2 Soil	SE80889-30 TP104/ 0.3-0.8 Soil
Date Extracted (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Arsenic	mg/kg	4	<3	<3	<3	<3
Cadmium	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium	mg/kg	8.8	1.1	<0.3	3.0	3.8
Copper	mg/kg	43	6.3	<0.5	9.5	20
Lead	mg/kg	120	11	<1	30	44
Nickel	mg/kg	2.7	21	<0.5	7.0	12
Zinc	mg/kg	97	24	0.8	30	46

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix	UNITS --------- ----------	SE80889-3 1 TP104/ 1-1.6 Soil	SE80889-3 2 TP103/ 0-0.3 Soil	SE80889-3 3 TP103/ 0.4-0.9 Soil	SE80889-3 4 TP107/ 0-0.3 Soil
Date Extracted (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Metals)		27/08/2010	27/08/2010	27/08/2010	27/08/2010
Arsenic	mg/kg	<3	<3	<3	<3
Cadmium	mg/kg	<0.3	<0.3	<0.3	<0.3
Chromium	mg/kg	<0.3	7.8	2.6	3.8
Copper	mg/kg	<0.5	34	0.6	17
Lead	mg/kg	<1	12	2	39
Nickel	mg/kg	<0.5	51	1.2	11
Zinc	mg/kg	<0.5	45	1.2	42

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 BH1/ 0.3-0.5 Soil	SE80889-2 BH2/ 0.3-0.6 Soil	SE80889-3 BH2/ 0.7-1.0 Soil	SE80889-4 BH2/ 4.1-4.5 Soil	SE80889-5 BH3/ 0.3-0.6 Soil
Date Extracted (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Mercury	mg/kg	<0.05	0.22	<0.05	<0.05	0.24

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-6 BH4/ 0.4-0.6 Soil	SE80889-7 BH5/ 0-0.3 Soil	SE80889-8 BH5/ 3.4-3.9 Soil	SE80889-9 BH6/ 0.3-0.6 Soil	SE80889-1 0 BH6/ 0.6-1.0 Soil
Date Extracted (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Mercury	mg/kg	<0.05	0.07	<0.05	<0.05	<0.05

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 1 BD1/ 200810 Soil	SE80889-1 2 BD3/ 200810 Soil	SE80889-1 3 TP101/ 0-0.3 Soil	SE80889-1 4 TP102/ 0-0.3 Soil	SE80889-1 5 TP102/ 0.4-0.8 Soil
Date Extracted (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Mercury	mg/kg	0.10	<0.05	0.21	0.10	0.07

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 6 TP110/ 0-0.3 Soil	SE80889-1 7 TP110/ 0.5-1.0 Soil	SE80889-1 8 TP110/ 1.5-2.0 Soil	SE80889-1 9 TP109/ 0-0.3 Soil	SE80889-2 0 TP109/ 0.6-1.1 Soil
Date Extracted (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Mercury	mg/kg	0.08	0.07	<0.05	0.57	0.12

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-21 TP108/ 0-0.3 Soil	SE80889-22 TP108/ 0.6-1.1 Soil	SE80889-23 TP107/ 0.4-0.6 Soil	SE80889-24 TP107/ 0.8-1.3 Soil	SE80889-25 TP106/ 0-0.3 Soil
Date Extracted (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Mercury	mg/kg	0.10	0.35	<0.05	<0.05	0.06

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-26 TP106/ 0.4-1.0 Soil	SE80889-27 TP105/ 0.3-0.6 Soil	SE80889-28 TP105/ 1-1.5 Soil	SE80889-29 TP104/ 0-0.2 Soil	SE80889-30 TP104/ 0.3-0.8 Soil
Date Extracted (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010	27/08/2010
Mercury	mg/kg	0.62	0.07	<0.05	0.06	<0.05

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-31 TP104/ 1-1.6 Soil	SE80889-32 TP103/ 0-0.3 Soil	SE80889-33 TP103/ 0.4-0.9 Soil	SE80889-34 TP107/ 0-0.3 Soil
Date Extracted (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010
Date Analysed (Mercury)		27/08/2010	27/08/2010	27/08/2010	27/08/2010
Mercury	mg/kg	<0.05	<0.05	<0.05	<0.05

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Asbestos ID in soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 BH1/ 0.3-0.5 Soil	SE80889-2 BH2/ 0.3-0.6 Soil	SE80889-5 BH3/ 0.3-0.6 Soil	SE80889-6 BH4/ 0.4-0.6 Soil	SE80889-7 BH5/ 0-0.3 Soil
Date Analysed		30/08/2010	1/09/2010	30/08/2010	30/08/2010	30/08/2010
Sample Description		167g sand, soil	120g Sand	207g sand, soil	172g sand	198g soil, sand
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID in soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-9 BH6/ 0.3-0.6 Soil	SE80889-13 TP101/ 0-0.3 Soil	SE80889-14 TP102/ 0-0.3 Soil	SE80889-15 TP102/ 0.4-0.8 Soil	SE80889-16 TP110/ 0-0.3 Soil
Date Analysed		30/08/2010	30/08/2010	30/08/2010	30/08/2010	30/08/2010
Sample Description		274g sand, soil, rocks	186g sand, soil	215g sand, soil, rocks	189g sand, soil, rocks	145g sand, soil, rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected*	No asbestos detected Organic fibres detected*	No asbestos detected	Chrysotile asbestos detected	No asbestos detected Organic fibres detected*

Asbestos ID in soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-17 TP110/ 0.5-1.0 Soil	SE80889-18 TP110/ 1.5-2.0 Soil	SE80889-19 TP109/ 0-0.3 Soil	SE80889-21 TP108/ 0-0.3 Soil	SE80889-25 TP106/ 0-0.3 Soil
Date Analysed		30/08/2010	30/08/2010	30/08/2010	30/08/2010	30/08/2010
Sample Description		192g sand, soil, rocks	237g sand, soil, rocks	205g soil, plant matter	120g soil, rocks	95g soil, rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected*	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected Organic fibres detected*	No asbestos detected Organic fibres detected*	No asbestos detected Organic fibres detected*	No asbestos detected Organic fibres detected*

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Asbestos ID in soil Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-27 TP105/ 0.3-0.6 Soil	SE80889-29 TP104/ 0-0.2 Soil	SE80889-30 TP104/ 0.3-0.8 Soil	SE80889-32 TP103/ 0-0.3 Soil	SE80889-34 TP107/ 0-0.3 Soil
Date Analysed		30/08/2010	30/08/2010	30/08/2010	30/08/2010	30/08/2010
Sample Description		106g soil, rocks	237g soil, rocks	138g soil, rocks	189g soil, rocks	115g soil, rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected*	No asbestos detected Organic fibres detected*	No asbestos detected Organic fibres detected*	No asbestos detected Organic fibres detected*	No asbestos detected Organic fibres detected*

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Moisture Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-1 BH1/ 0.3-0.5 Soil	SE80889-2 BH2/ 0.3-0.6 Soil	SE80889-3 BH2/ 0.7-1.0 Soil	SE80889-4 BH2/ 4.1-4.5 Soil	SE80889-5 BH3/ 0.3-0.6 Soil
Date Analysed (moisture)		26/08/2010	26/08/2010	26/08/2010	26/08/2010	26/08/2010
Moisture	%	6	6	5	19	5

Moisture Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-6 BH4/ 0.4-0.6 Soil	SE80889-7 BH5/ 0-0.3 Soil	SE80889-8 BH5/ 3.4-3.9 Soil	SE80889-9 BH6/ 0.3-0.6 Soil	SE80889-10 BH6/ 0.6-1.0 Soil
Date Analysed (moisture)		26/08/2010	26/08/2010	26/08/2010	26/08/2010	26/08/2010
Moisture	%	2	6	15	8	4

Moisture Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-11 BD1/ 200810 Soil	SE80889-12 BD3/ 200810 Soil	SE80889-13 TP101/ 0-0.3 Soil	SE80889-14 TP102/ 0-0.3 Soil	SE80889-15 TP102/ 0.4-0.8 Soil
Date Analysed (moisture)		26/08/2010	26/08/2010	26/08/2010	26/08/2010	26/08/2010
Moisture	%	6	4	10	9	6

Moisture Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-16 TP110/ 0-0.3 Soil	SE80889-17 TP110/ 0.5-1.0 Soil	SE80889-18 TP110/ 1.5-2.0 Soil	SE80889-19 TP109/ 0-0.3 Soil	SE80889-20 TP109/ 0.6-1.1 Soil
Date Analysed (moisture)		26/08/2010	26/08/2010	26/08/2010	26/08/2010	26/08/2010
Moisture	%	8	21	6	15	8

Moisture Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-21 TP108/ 0-0.3 Soil	SE80889-22 TP108/ 0.6-1.1 Soil	SE80889-23 TP107/ 0.4-0.6 Soil	SE80889-24 TP107/ 0.8-1.3 Soil	SE80889-25 TP106/ 0-0.3 Soil
Date Analysed (moisture)		26/08/2010	26/08/2010	26/08/2010	26/08/2010	26/08/2010
Moisture	%	23	10	24	4	15

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Moisture Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-26 TP106/ 0.4-1.0 Soil	SE80889-27 TP105/ 0.3-0.6 Soil	SE80889-28 TP105/ 1-1.5 Soil	SE80889-29 TP104/ 0-0.2 Soil	SE80889-30 TP104/ 0.3-0.8 Soil
Date Analysed (moisture)		26/08/2010	26/08/2010	26/08/2010	26/08/2010	26/08/2010
Moisture	%	12	24	2	8	12

Moisture Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-31 TP104/ 1-1.6 Soil	SE80889-32 TP103/ 0-0.3 Soil	SE80889-33 TP103/ 0.4-0.9 Soil	SE80889-34 TP107/ 0-0.3 Soil	SE80889-36 BH2/ 1.1-1.5 Soil
Date Analysed (moisture)		26/08/2010	26/08/2010	26/08/2010	26/08/2010	26/08/2010
Moisture	%	4	7	3	27	4

Moisture Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-37 BH2/ 1.6-2.0 Soil	SE80889-38 BH2/ 2.1-2.5 Soil	SE80889-39 BH2/ 2.6-3.0 Soil	SE80889-40 BH2/ 3.1-3.5 Soil	SE80889-41 BH2/ 3.6-4.0 Soil
Date Analysed (moisture)		26/08/2010	26/08/2010	26/08/2010	26/08/2010	26/08/2010
Moisture	%	4	5	9	3	4

Moisture Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-42 BH2/ 5.1-5.5 Soil	SE80889-43 BH2/ 4.6-5.0 Soil	SE80889-44 BH5/ 0.6-1.0 Soil	SE80889-45 BH5/ 1.1-1.5 Soil	SE80889-46 BH5/ 1.6-2.0 Soil
Date Analysed (moisture)		26/08/2010	26/08/2010	26/08/2010	26/08/2010	26/08/2010
Moisture	%	12	21	3	5	3

Moisture Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE80889-47 BH5/ 2.1-2.5 Soil	SE80889-48 BH5/ 2.6-3.0 Soil	SE80889-49 BH5/ 4-4.5 Soil	SE80889-50 BH5/ 5.5-6.0 Soil	SE80889-51 TB1/ 200810 Soil
Date Analysed (moisture)		26/08/2010	26/08/2010	26/08/2010	26/08/2010	26/08/2010
Moisture	%	6	6	20	20	<1

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Moisture Our Reference:	UNITS	SE80889-5 3
Your Reference	----------	TB/ 230810
Sample Matrix	----------	Soil
Date Analysed (moisture)		26/08/2010
Moisture	%	<1

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
AN420	Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates, and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD/FID technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN289	Total Phenols - Determined by colourimetric method using Discrete Analyser, following distillation of the sample. Based on APHA 21st Edition 5530B and 5530D.
AN101	pH - Measured using pH meter and electrode based on APHA 21st Edition, 4500-H+. For water analyses the results reported are indicative only as the sample holding time requirement specified in APHA was not met (APHA requires that the pH of the samples are to be measured within 15 minutes after sampling).
SEI-037	Ammonia - Determined by salicylate colourimetric method using Discrete Analyser.
AN106	Conductivity and TDS by Calculation (cTDS) - Conductivity is measured using a conductivity cell and dedicated meter, in accordance with APHA 21st Edition, 2510. TDS is calculated by TDS(mg/L)=0.6 x Conductivity(µS/cm).
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Method ID	Methodology Summary
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL MBTEX in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (MBTEX)				27/08/10	SE80889-21	27/08/2010 || 27/08/2010
Date Analysed (MBTEX)				27/08/10	SE80889-21	27/08/2010 || 27/08/2010
Benzene	mg/kg	0.1	SEO-018	<0.1	SE80889-21	<0.1 || <0.1
Toluene	mg/kg	0.1	SEO-018	<0.1	SE80889-21	<0.1 || <0.1
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	SE80889-21	<0.1 || <0.1
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	SE80889-21	<0.3 || <0.3
BTEX Surrogate (%)	%	0	SEO-018	72	SE80889-21	70 || 68 || RPD: 3

QUALITY CONTROL BTEX in Soil	UNITS	LOR	METHOD	Blank
Date Extracted (BTEX)				27/08/10
Date Analysed (BTEX)				27/08/10
Benzene	mg/kg	0.1	SEO-018	<0.1
Toluene	mg/kg	0.1	SEO-018	<0.1
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1
Total Xylenes	mg/kg	0.3	SEO-018	<0.3
BTEX Surrogate (%)	%	0	SEO-018	72

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				27/08/10	SE80889-21	27/08/2010 || 27/08/2010	[NR]	[NR]
Date Analysed (TRH C6-C9 PT)				27/08/10	SE80889-21	27/08/2010 || 27/08/2010	[NR]	[NR]
TRH C_6 - C_9 P&T	mg/kg	20	SEO-018	<20	SE80889-21	<20 || <20	[NR]	[NR]
Date Extracted (TRH C10-C36)				27/08/2010	SE80889-21	27/08/2010 || 27/08/2010	SE80889-2	27/08/10
Date Analysed (TRH C10-C36)				28/08/2010	SE80889-21	27/08/2010 || 27/08/2010	SE80889-2	28/08/10
TRH C_{10} - C_{14}	mg/kg	20	SEO-020	<20	SE80889-21	<20 || [N/T]	SE80889-2	111%

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH C_{15} - C_{28}	mg/kg	50	SEO-020	<50	SE80889-21	<50 || [N/T]	SE80889-2	104%
TRH C_{29} - C_{36}	mg/kg	50	SEO-020	<50	SE80889-21	<50 || [N/T]	SE80889-2	96%

QUALITY CONTROL PAHs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				27/08/2010	SE80889-24	27/08/2010 || 27/08/2010	SE80889-3	27/08/2010
Date Analysed				27/08/2010	SE80889-24	27/08/2010 || 27/08/2010	SE80889-3	27/08/2010
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	SE80889-3	109%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	SE80889-3	96%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	SE80889-3	112%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	SE80889-3	109%
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	SE80889-3	105%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	SE80889-3	102%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	SE80889-3	108%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	[NR]	[NR]
Benzo[*b*,*k*]fluoranthene	mg/kg	0.2	SEO-030	<0.20	SE80889-24	<0.20 || <0.20	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.05	SEO-030	<0.05	SE80889-24	<0.05 || <0.05	SE80889-3	93%
Indeno[*123-cd*]pyrene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	0.1	SEO-030	<0.10	SE80889-24	<0.10 || <0.10	[NR]	[NR]

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL PAHs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Total PAHs (sum)	mg/kg	1.75	SEO-030	<1.7	SE80889-24	<1.7 || <1.7	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	96	SE80889-24	100 || 94 || RPD: 6	SE80889-3	95%
2-Fluorobiphenyl	%	0	SEO-030	94	SE80889-24	95 || 91 || RPD: 4	SE80889-3	92%
p -Terphenyl-*d* 14	%	0	SEO-030	92	SE80889-24	92 || 86 || RPD: 7	SE80889-3	89%

QUALITY CONTROL OC Pesticides in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				27/08/2010	SE80889-6	27/08/2010 || 27/08/2010	SE80889-7	27/08/2010
Date Analysed				27/08/2010	SE80889-6	27/08/2010 || 27/08/2010	SE80889-7	27/08/2010
HCB	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	SE80889-7	138%
Aldrin	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	SE80889-7	128%
beta-BHC	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
delta-BHC	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	SE80889-7	117%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
o,p-DDE	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
alpha-Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
trans-Chlordane *(gamma)*	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
cis-Chlordane *(alpha)*	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
trans-Nonachlor	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
p,p-DDE	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	SE80889-7	130%
Endrin	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	SE80889-7	137%
o,p-DDD	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
o,p-DDT	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
beta-Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
p,p-DDD	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
p,p-DDT	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	SE80889-7	130%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL OC Pesticides in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xylene *(Surrogate*	%	0	SEO-005	88	SE80889-6	100 || 100 || RPD: 0	SE80889-7	99%

QUALITY CONTROL OP Pesticides in Soil by GCMS	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				27/08/10	[NT]	[NT]	SE80889-5	28/08/10
Date Analysed				27/08/10	[NT]	[NT]	SE80889-5	28/08/10
Dichlorvos	mg/kg	1	AN420	<1	[NT]	[NT]	SE80889-5	112%
Dimethoate	mg/kg	1	AN420	<1	[NT]	[NT]	[NR]	[NR]
Diazinon	mg/kg	0.5	AN420	<0.5	[NT]	[NT]	SE80889-5	114%
Fenitrothion	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	[NR]	[NR]
Malathion	mg/kg	0.2	AN420	<0.20	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos-ethyl	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	SE80889-5	123%
Parathion-ethyl	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	[NR]	[NR]
Bromofos-ethyl	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	[NR]	[NR]
Methidathion	mg/kg	0.5	AN420	<0.5	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	SE80889-5	99%
Azinphos-methyl	mg/kg	0.2	AN420	<0.20	[NT]	[NT]	[NR]	[NR]
2-fluorobiphenyl (Surr)	%	0	AN420	98	[NT]	[NT]	SE80889-5	112%
d14-p-Terphenyl (Surr)	%	0	AN420	78	[NT]	[NT]	SE80889-5	104%

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL PCBs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				27/08/2010	SE80889-6	27/08/2010 || 27/08/2010	SE80889-9	27/08/2010
Date Analysed				27/08/2010	SE80889-6	27/08/2010 || 27/08/2010	SE80889-9	27/08/2010
Arochlor 1016	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
Arochlor 1260	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	SE80889-9	120%
Arochlor 1262	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
Arochlor 1268	mg/kg	0.1	SEO-005	<0.1	SE80889-6	<0.1 || <0.1	[NR]	[NR]
Total Positive PCB	mg/kg	0.9	SEO-005	<0.90	SE80889-6	<0.90 || <0.90	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	88	SE80889-6	100 || 100 || RPD: 0	SE80889-9	95%

QUALITY CONTROL Total Phenolics in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Phenols)				27/08/10	SE80889-1	27/08/2010 || 27/08/2010	SE80889-5	27/08/10
Date Analysed (Phenols)				27/08/10	SE80889-1	27/08/2010 || 27/08/2010	SE80889-5	27/08/10
Total Phenolics (as Phenol)	mg/kg	0.1	AN289	<0.1	SE80889-1	<0.1 || <0.1	SE80889-5	84%

QUALITY CONTROL Inorganics	UNITS	LOR	METHOD	Blank
Date Extracted- (pH 1:5 soil: Water)				[NT]
Date Analysed (pH 1:5 Soil: Water)				[NT]
pH 1:5 soil:water	pH Units	0	AN101	[NT]
Electrical Conductivity 1:5 soil:water	µS/cm	1	AN106	[NT]

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)				27/08/2010	SE80889-1	27/08/2010 || 27/08/2010	SE80889-23	27/08/2010
Date Analysed (Metals)				27/08/2010	SE80889-1	27/08/2010 || 27/08/2010	SE80889-23	27/08/2010
Arsenic	mg/kg	3	SEM-010	<3	SE80889-1	<3 || <3	SE80889-23	114%
Cadmium	mg/kg	0.3	SEM-010	<0.3	SE80889-1	<0.3 || <0.3	SE80889-23	121%
Chromium	mg/kg	0.3	SEM-010	<0.3	SE80889-1	2.7 || 2.8 || RPD: 4	SE80889-23	104%
Copper	mg/kg	0.5	SEM-010	<0.5	SE80889-1	2.7 || 2.8 || RPD: 4	SE80889-23	112%
Lead	mg/kg	1	SEM-010	<1	SE80889-1	5 || 6 || RPD: 18	SE80889-23	125%
Nickel	mg/kg	0.5	SEM-010	<0.5	SE80889-1	1.2 || 1.2 || RPD: 0	SE80889-23	124%
Zinc	mg/kg	0.5	SEM-010	<0.5	SE80889-1	16 || 17 || RPD: 6	SE80889-23	123%

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)				27/08/2010	SE80889-1	27/08/2010 || 27/08/2010	LCS	27/08/2010
Date Analysed (Mercury)				27/08/2010	SE80889-1	27/08/2010 || 27/08/2010	LCS	27/08/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	SE80889-1	<0.05 || <0.05	LCS	100%

QUALITY CONTROL Asbestos ID in soil	UNITS	LOR	METHOD	Blank
Date Analysed				[NT]

QUALITY CONTROL Moisture	UNITS	LOR	METHOD	Blank
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL MBTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (MBTEX)		SE80889-31	27/08/2010 || 27/08/2010	SE80889-32	27/08/10
Date Analysed (MBTEX)		SE80889-31	27/08/2010 || 27/08/2010	SE80889-32	27/08/10
Benzene	mg/kg	SE80889-31	<0.1 || <0.1	SE80889-32	60%
Toluene	mg/kg	SE80889-31	<0.1 || <0.1	SE80889-32	62%
Ethylbenzene	mg/kg	SE80889-31	<0.1 || <0.1	SE80889-32	64%
Total Xylenes	mg/kg	SE80889-31	<0.3 || <0.3	SE80889-32	69%
BTEX Surrogate (%)	%	SE80889-31	60 || 62 || RPD: 3	SE80889-32	76%

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE80889-31	27/08/2010 || 27/08/2010	SE80889-32	27/08/10
Date Analysed (TRH C6-C9 PT)		SE80889-31	27/08/2010 || 27/08/2010	SE80889-32	27/08/10
TRH C_6 - C_9 P&T	mg/kg	SE80889-31	<20 || <20	SE80889-32	71%
Date Extracted (TRH C10-C36)		SE80889-31	27/08/2010 || 27/08/2010	[NR]	[NR]
Date Analysed (TRH C10-C36)		SE80889-31	27/08/2010 || 27/08/2010	[NR]	[NR]

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted		SE80889-1	27/08/2010 || 27/08/2010	SE80889-26	27/08/10
Date Analysed		SE80889-1	27/08/2010 || 27/08/2010	SE80889-26	27/08/10
Naphthalene	mg/kg	SE80889-1	<0.10 || <0.10	SE80889-26	126%
2-Methylnaphthalene	mg/kg	SE80889-1	<0.10 || <0.10	[NR]	[NR]
1-Methylnaphthalene	mg/kg	SE80889-1	<0.10 || <0.10	[NR]	[NR]
Acenaphthylene	mg/kg	SE80889-1	<0.10 || <0.10	SE80889-26	97%
Acenaphthene	mg/kg	SE80889-1	<0.10 || <0.10	SE80889-26	135%
Fluorene	mg/kg	SE80889-1	<0.10 || <0.10	[NR]	[NR]
Phenanthrene	mg/kg	SE80889-1	<0.10 || <0.10	SE80889-26	66%
Anthracene	mg/kg	SE80889-1	<0.10 || <0.10	SE80889-26	98%
Fluoranthene	mg/kg	SE80889-1	<0.10 || <0.10	SE80889-26	#
Pyrene	mg/kg	SE80889-1	<0.10 || <0.10	SE80889-26	#
Benzo[*a*]anthracene	mg/kg	SE80889-1	<0.10 || <0.10	[NR]	[NR]
Chrysene	mg/kg	SE80889-1	<0.10 || <0.10	[NR]	[NR]
Benzo[*b,k*]fluoranthene	mg/kg	SE80889-1	<0.20 || <0.20	[NR]	[NR]
Benzo[*a*]pyrene	mg/kg	SE80889-1	<0.05 || <0.05	SE80889-26	#
Indeno[*123-cd*]pyrene	mg/kg	SE80889-1	<0.10 || <0.10	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	SE80889-1	<0.10 || <0.10	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	SE80889-1	<0.10 || <0.10	[NR]	[NR]
Total PAHs (sum)	mg/kg	SE80889-1	<1.7 || <1.7	[NR]	[NR]
Nitrobenzene-d5	%	SE80889-1	94 || 96 || RPD: 2	SE80889-26	106%
2-Fluorobiphenyl	%	SE80889-1	94 || 94 || RPD: 0	SE80889-26	103%
p -Terphenyl-*d14*	%	SE80889-1	76 || 74 || RPD: 3	SE80889-26	102%

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL OC Pesticides in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted		SE80889-27	27/08/2010 || 27/08/2010
Date Analysed		SE80889-27	27/08/2010 || 27/08/2010
HCB	mg/kg	SE80889-27	<0.1 || <0.1
alpha-BHC	mg/kg	SE80889-27	<0.1 || <0.1
gamma-BHC (Lindane)	mg/kg	SE80889-27	<0.1 || <0.1
Heptachlor	mg/kg	SE80889-27	<0.1 || <0.1
Aldrin	mg/kg	SE80889-27	<0.1 || <0.1
beta-BHC	mg/kg	SE80889-27	<0.1 || <0.1
delta-BHC	mg/kg	SE80889-27	<0.1 || <0.1
Heptachlor Epoxide	mg/kg	SE80889-27	<0.1 || <0.1
o,p-DDE	mg/kg	SE80889-27	<0.1 || <0.1
alpha-Endosulfan	mg/kg	SE80889-27	<0.1 || <0.1
trans-Chlordane *(gamma)*	mg/kg	SE80889-27	<0.1 || <0.1
cis-Chlordane *(alpha)*	mg/kg	SE80889-27	<0.1 || <0.1
trans-Nonachlor	mg/kg	SE80889-27	<0.1 || <0.1
p,p-DDE	mg/kg	SE80889-27	<0.1 || <0.1
Dieldrin	mg/kg	SE80889-27	<0.1 || <0.1
Endrin	mg/kg	SE80889-27	<0.1 || <0.1
o,p-DDD	mg/kg	SE80889-27	<0.1 || <0.1
o,p-DDT	mg/kg	SE80889-27	<0.1 || <0.1
beta-Endosulfan	mg/kg	SE80889-27	<0.1 || <0.1
p,p-DDD	mg/kg	SE80889-27	<0.1 || <0.1

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL OC Pesticides in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
p,p-DDT	mg/kg	SE80889-27	<0.1 || <0.1
Endosulfan Sulphate	mg/kg	SE80889-27	<0.1 || <0.1
Endrin Aldehyde	mg/kg	SE80889-27	<0.1 || <0.1
Methoxychlor	mg/kg	SE80889-27	<0.1 || <0.1
Endrin Ketone	mg/kg	SE80889-27	<0.1 || <0.1
2,4,5,6-Tetrachloro-m-xylene *(Surrogate*	%	SE80889-27	97 || 102 || RPD: 5

QUALITY CONTROL OP Pesticides in Soil by GCMS	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted		SE80889-1	27/08/2010 || 27/08/2010
Date Analysed		SE80889-1	27/08/2010 || 27/08/2010
Dichlorvos	mg/kg	SE80889-1	<1 || <1
Dimethoate	mg/kg	SE80889-1	<1 || <1
Diazinon	mg/kg	SE80889-1	<0.5 || <0.5
Fenitrothion	mg/kg	SE80889-1	<0.2 || <0.2
Malathion	mg/kg	SE80889-1	<0.20 || <0.20
Chlorpyrifos-ethyl	mg/kg	SE80889-1	<0.2 || <0.2
Parathion-ethyl	mg/kg	SE80889-1	<0.2 || <0.2
Bromofos-ethyl	mg/kg	SE80889-1	<0.2 || <0.2
Methidathion	mg/kg	SE80889-1	<0.5 || <0.5
Ethion	mg/kg	SE80889-1	<0.2 || <0.2
Azinphos-methyl	mg/kg	SE80889-1	<0.20 || <0.20
2-fluorobiphenyl (Surr)	%	SE80889-1	94 || 94 || RPD: 0
d14-p-Terphenyl (Surr)	%	SE80889-1	76 || 74 || RPD: 3

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted		SE80889-27	27/08/2010 || 27/08/2010
Date Analysed		SE80889-27	27/08/2010 || 27/08/2010
Arochlor 1016	mg/kg	SE80889-27	<0.1 || <0.1
Arochlor 1221	mg/kg	SE80889-27	<0.1 || <0.1
Arochlor 1232	mg/kg	SE80889-27	<0.1 || <0.1
Arochlor 1242	mg/kg	SE80889-27	<0.1 || <0.1
Arochlor 1248	mg/kg	SE80889-27	<0.1 || <0.1
Arochlor 1254	mg/kg	SE80889-27	<0.1 || <0.1
Arochlor 1260	mg/kg	SE80889-27	<0.1 || <0.1
Arochlor 1262	mg/kg	SE80889-27	<0.1 || <0.1
Arochlor 1268	mg/kg	SE80889-27	<0.1 || <0.1
Total Positive PCB	mg/kg	SE80889-27	<0.90 || <0.90
PCB_Surrogate 1	%	SE80889-27	97 || 102 || RPD: 5

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL Total Phenolics in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Phenols)		SE80889-21	27/08/2010 || 27/08/2010
Date Analysed (Phenols)		SE80889-21	27/08/2010 || 27/08/2010
Total Phenolics (as Phenol)	mg/kg	SE80889-21	0.7 || 0.4 || RPD: 55

QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)		SE80889-11	27/08/2010 || 27/08/2010	SE80889-2	27/08/2010
Date Analysed (Metals)		SE80889-11	27/08/2010 || 27/08/2010	SE80889-2	27/08/2010
Arsenic	mg/kg	SE80889-11	<3 || <3	SE80889-2	113%
Cadmium	mg/kg	SE80889-11	<0.3 || <0.3	SE80889-2	113%
Chromium	mg/kg	SE80889-11	1.8 || 1.6 || RPD: 12	SE80889-2	102%
Copper	mg/kg	SE80889-11	34 || 36 || RPD: 6	SE80889-2	94%
Lead	mg/kg	SE80889-11	73 || 62 || RPD: 16	SE80889-2	115%
Nickel	mg/kg	SE80889-11	<0.5 || <0.5	SE80889-2	109%
Zinc	mg/kg	SE80889-11	58 || 60 || RPD: 3	SE80889-2	106%

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)		SE80889-1 1	27/08/2010 || 27/08/2010	SE80889-2 3	27/08/2010
Date Analysed (Mercury)		SE80889-1 1	27/08/2010 || 27/08/2010	SE80889-2 3	27/08/2010
Mercury	mg/kg	SE80889-1 1	0.10 || 0.21 || RPD: 71	SE80889-2 3	95%

QUALITY CONTROL MBTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (MBTEX)		SE80889-1	27/08/2010 || 27/08/2010	[NR]	[NR]
Date Analysed (MBTEX)		SE80889-1	27/08/2010 || 27/08/2010	[NR]	[NR]
Benzene	mg/kg	SE80889-1	<0.1 || <0.1	[NR]	[NR]
Toluene	mg/kg	SE80889-1	<0.1 || <0.1	[NR]	[NR]
Ethylbenzene	mg/kg	SE80889-1	<0.1 || <0.1	[NR]	[NR]
Total Xylenes	mg/kg	SE80889-1	<0.3 || <0.3	[NR]	[NR]
BTEX Surrogate (%)	%	SE80889-1	73 || 81 || RPD: 10	[NR]	[NR]

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE80889-1	27/08/2010 || 27/08/2010	SE80889-1 2	27/08/10
Date Analysed (TRH C6-C9 PT)		SE80889-1	27/08/2010 || 27/08/2010	SE80889-1 2	27/08/10
TRH C_6 - C_9 P&T	mg/kg	SE80889-1	<20 || <20	SE80889-1 2	77%
Date Extracted (TRH C10-C36)		SE80889-1	27/08/2010 || 27/08/2010	[NR]	[NR]
Date Analysed (TRH C10-C36)		SE80889-1	27/08/2010 || 27/08/2010	[NR]	[NR]
TRH C_{10} - C_{14}	mg/kg	SE80889-1	<20 || <20	[NR]	[NR]
TRH C_{15} - C_{28}	mg/kg	SE80889-1	<50 || <50	[NR]	[NR]
TRH C_{29} - C_{36}	mg/kg	SE80889-1	<50 || <50	[NR]	[NR]

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted		SE80889-13	27/08/2010 || 27/08/2010	LCS	27/08/10
Date Analysed		SE80889-13	27/08/2010 || 27/08/2010	LCS	27/08/10
Naphthalene	mg/kg	SE80889-13	<0.10 || <0.10	LCS	116%
2-Methylnaphthalene	mg/kg	SE80889-13	<0.10 || <0.10	[NR]	[NR]
1-Methylnaphthalene	mg/kg	SE80889-13	<0.10 || <0.10	[NR]	[NR]
Acenaphthylene	mg/kg	SE80889-13	0.43 || 0.38 || RPD: 12	LCS	106%
Acenaphthene	mg/kg	SE80889-13	<0.10 || <0.10	LCS	121%
Fluorene	mg/kg	SE80889-13	0.19 || 0.16 || RPD: 17	[NR]	[NR]
Phenanthrene	mg/kg	SE80889-13	4.6 || 4.1 || RPD: 11	LCS	118%
Anthracene	mg/kg	SE80889-13	0.93 || 0.84 || RPD: 10	LCS	112%
Fluoranthene	mg/kg	SE80889-13	8.2 || 7.2 || RPD: 13	LCS	110%
Pyrene	mg/kg	SE80889-13	8.4 || 7.3 || RPD: 14	LCS	115%
Benzo[*a*]anthracene	mg/kg	SE80889-13	5.0 || 4.5 || RPD: 11	[NR]	[NR]
Chrysene	mg/kg	SE80889-13	3.5 || 3.1 || RPD: 12	[NR]	[NR]
Benzo[*b,k*]fluoranthene	mg/kg	SE80889-13	5.7 || 5.2 || RPD: 9	[NR]	[NR]
Benzo[*a*]pyrene	mg/kg	SE80889-13	3.6 || 3.3 || RPD: 9	LCS	98%
Indeno[*123-cd*]pyrene	mg/kg	SE80889-13	1.5 || 1.4 || RPD: 7	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	SE80889-13	0.30 || 0.29 || RPD: 3	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	SE80889-13	1.2 || 1.1 || RPD: 9	[NR]	[NR]
Total PAHs (sum)	mg/kg	SE80889-13	<44.04 || <39.33	[NR]	[NR]
Nitrobenzene-d5	%	SE80889-13	106 || 88 || RPD: 19	LCS	92%
2-Fluorobiphenyl	%	SE80889-13	106 || 90 || RPD: 16	LCS	89%

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
p -Terphenyl-*d14*	%	SE80889-13	88 || 62 || RPD: 35	LCS	87%

QUALITY CONTROL OP Pesticides in Soil by GCMS	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted		SE80889-13	27/08/2010 || 27/08/2010
Date Analysed		SE80889-13	27/08/2010 || 27/08/2010
Dichlorvos	mg/kg	SE80889-13	<1 || <1
Dimethoate	mg/kg	SE80889-13	<1 || <1
Diazinon	mg/kg	SE80889-13	<0.5 || <0.5
Fenitrothion	mg/kg	SE80889-13	<0.2 || <0.2
Malathion	mg/kg	SE80889-13	<0.20 || <0.20
Chlorpyrifos-ethyl	mg/kg	SE80889-13	<0.2 || <0.2
Parathion-ethyl	mg/kg	SE80889-13	<0.2 || <0.2
Bromofos-ethyl	mg/kg	SE80889-13	<0.2 || <0.2
Methidathion	mg/kg	SE80889-13	<0.5 || <0.5
Ethion	mg/kg	SE80889-13	<0.2 || <0.2
Azinphos-methyl	mg/kg	SE80889-13	<0.20 || <0.20
2-fluorobiphenyl (Surr)	%	SE80889-13	106 || 94 || RPD: 12
d14-p-Terphenyl (Surr)	%	SE80889-13	88 || 74 || RPD: 17

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Metals)		SE80889-22	27/08/2010 || 27/08/2010
Date Analysed (Metals)		SE80889-22	27/08/2010 || 27/08/2010
Arsenic	mg/kg	SE80889-22	4 || 5 || RPD: 22
Cadmium	mg/kg	SE80889-22	<0.3 || <0.3
Chromium	mg/kg	SE80889-22	11 || 12 || RPD: 9
Copper	mg/kg	SE80889-22	59 || 74 || RPD: 23
Lead	mg/kg	SE80889-22	120 || 140 || RPD: 15
Nickel	mg/kg	SE80889-22	3.1 || 3.5 || RPD: 12
Zinc	mg/kg	SE80889-22	120 || 140 || RPD: 15

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Mercury)		SE80889-22	27/08/2010 || 27/08/2010
Date Analysed (Mercury)		SE80889-22	27/08/2010 || 27/08/2010
Mercury	mg/kg	SE80889-22	0.35 || 0.45 || RPD: 25

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE80889-11	27/08/2010 || 27/08/2010	[NR]	[NR]
Date Analysed (TRH C6-C9 PT)		SE80889-11	27/08/2010 || 27/08/2010	[NR]	[NR]
TRH C6 - C9 P&T	mg/kg	SE80889-11	<20 || <20	[NR]	[NR]
Date Extracted (TRH C10-C36)		SE80889-11	27/08/2010 || 27/08/2010	SE80889-25	27/08/2010
Date Analysed (TRH C10-C36)		SE80889-11	27/08/2010 || 27/08/2010	SE80889-25	28/08/2010

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH C_{10} - C_{14}	mg/kg	SE80889-11	<20 || [N/T]	SE80889-25	112%
TRH C_{15} - C_{28}	mg/kg	SE80889-11	<50 || [N/T]	SE80889-25	103%
TRH C_{29} - C_{36}	mg/kg	SE80889-11	<50 || [N/T]	SE80889-25	98%

QUALITY CONTROL Inorganics	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted- (pH 1:5 soil: Water)		SE80889-38	27/08/2010 || 27/08/2010
Date Analysed (pH 1:5 Soil: Water)		SE80889-38	27/08/2010 || 27/08/2010
pH 1:5 soil:water	pH Units	SE80889-38	7.9 || 8.0 || RPD: 1
Electrical Conductivity 1:5 soil:water	µS/cm	SE80889-38	27 || 27 || RPD: 0

QUALITY CONTROL Inorganics	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted- (pH 1:5 soil: Water)		SE80889-48	27/08/2010 || 27/08/2010
Date Analysed (pH 1:5 Soil: Water)		SE80889-48	27/08/2010 || 27/08/2010
pH 1:5 soil:water	pH Units	SE80889-48	6.1 || 6.1 || RPD: 0
Electrical Conductivity 1:5 soil:water	µS/cm	SE80889-48	9.3 || 9.1 || RPD: 2

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE80889-13	27/08/2010 || 27/08/2010
Date Analysed (TRH C6-C9 PT)		SE80889-13	27/08/2010 || 27/08/2010
TRH C_6 - C_9 P&T	mg/kg	SE80889-13	<20 || [N/T]
Date Extracted (TRH C10-C36)		SE80889-13	27/08/2010 || 27/08/2010
Date Analysed (TRH C10-C36)		SE80889-13	27/08/2010 || 27/08/2010
TRH C_{10} - C_{14}	mg/kg	SE80889-13	<20 || <20
TRH C_{15} - C_{28}	mg/kg	SE80889-13	120 || 120 || RPD: 0
TRH C_{29} - C_{36}	mg/kg	SE80889-13	62 || 60 || RPD: 3

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE80889-24	27/08/2010 || 27/08/2010
Date Analysed (TRH C6-C9 PT)		SE80889-24	27/08/2010 || 27/08/2010
TRH C_6 - C_9 P&T	mg/kg	SE80889-24	<20 || [N/T]
Date Extracted (TRH C10-C36)		SE80889-24	27/08/2010 || 27/08/2010
Date Analysed (TRH C10-C36)		SE80889-24	27/08/2010 || 27/08/2010
TRH C_{10} - C_{14}	mg/kg	SE80889-24	<20 || <20
TRH C_{15} - C_{28}	mg/kg	SE80889-24	<50 || <50
TRH C_{29} - C_{36}	mg/kg	SE80889-24	<50 || <50

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE80889-34	27/08/2010 || 27/08/2010
Date Analysed (TRH C6-C9 PT)		SE80889-34	27/08/2010 || 27/08/2010
TRH C_6 - C_9 P&T	mg/kg	SE80889-34	<20 || [N/T]
Date Extracted (TRH C10-C36)		SE80889-34	27/08/2010 || 27/08/2010
Date Analysed (TRH C10-C36)		SE80889-34	27/08/2010 || 27/08/2010
TRH C_{10} - C_{14}	mg/kg	SE80889-34	<20 || <20
TRH C_{15} - C_{28}	mg/kg	SE80889-34	<50 || <50
TRH C_{29} - C_{36}	mg/kg	SE80889-34	<50 || <50

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

PAH - # 26 Spikes not reported due to sample matrix interference. LCS reported.

Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.
This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

No respirable fibres detected using trace analysis technique.

Sample # 15: 2 mm length fibre bundle hand picked and found loose in sample
Sample # 18: 1-2mm length fibre bundles found in 5x3 mm cement sheet fragment.
Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.
Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

ANALYTICAL REPORT

WORLD RECOGNISED ACCREDITATION

CLIENT DETAILS		LABORATORY DETAILS	
Contact	Lindsay Rockett	Manager	Said Hirad
Client	DOUGLAS PARTNERS	Laboratory	SGS Newburn Environmental
Address	PO Box 6432 Bourke Rd Business Centre ALEXANDRIA NSW 2015	Address	10 Reid Rd Newburn WA 6104
Telephone	02 8594 0400	Telephone	(08) 9373 3500
Facsimile	02 8594 0499	Facsimile	(08) 9373 3556
Email	edward.ibrahim@sgs.com	Email	au.environmental.perth@sgs.com
Project	**71976.01-Randwick,Spec& Stable (SE81160)**	SGS Reference	PE052327 R0
Order Number	(Not specified)	Report Number	0000006306
Samples	2	Date Reported	17 Sep 2010

COMMENTS

The document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562(898).

SVOC surrogate recoveries were low on samples "BH2" and "BH5" due to sample emulsification during extraction.

SIGNATORIES

Dave Williams
National Organic Manager

Jeremy Truong
Inorganics Co-ordinator

Pamela Adams
Organic Team Leader

Parameter	Units	LOR	Sample Number: PE052327.001 Sample Matrix: Water Sample Name: BH2	Sample Number: PE052327.002 Sample Matrix: Water Sample Name: BH5
Low Level PCBs in Water Method: AN400/AN420				
PCB Congener C28	µg/L	0.02	<0.02	<0.02
PCB Congener C52	µg/L	0.01	<0.01	<0.01
PCB Congener C101	µg/L	0.004	<0.004	<0.004
PCB Congener C118	µg/L	0.004	<0.004	<0.004
PCB Congener C138	µg/L	0.004	<0.004	<0.004
PCB Congener C153	µg/L	0.004	<0.004	<0.004
PCB Congener C180	µg/L	0.004	<0.004	<0.004
Surrogates				
d14-p-terphenyl (Surrogate)	%	-	26.0	10.0
Low Level OC Pesticides in Water Method: AN400/AN420				
Lindane (gamma BHC)	µg/L	0.05	<0.05	<0.05
Aldrin	µg/L	0.01	<0.01	<0.01
p,p'-DDE	µg/L	0.01	<0.01	<0.01
p,p'-DDD	µg/L	0.01	<0.01	<0.01
Methoxychlor	µg/L	0.1	<0.1	<0.1
Hexachlorobenzene	µg/L	0.01	<0.01	<0.01
Alpha BHC	µg/L	0.05	<0.05	<0.05
Beta BHC	µg/L	0.05	<0.05	<0.05
Delta BHC	µg/L	0.05	<0.05	<0.05
Endrin Ketone	µg/L	0.05	<0.05	<0.05
Heptachlor epoxide	µg/L	0.02	<0.02	<0.02
Surrogates				
d14-p-terphenyl (Surrogate)	%	-	26.0	10.0
Ultra Low Level OC Pesticides in Water Method: AN400/AN420				
Heptachlor	µg/L	0.01	<0.01	<0.01
Gamma Chlordane	µg/L	0.002	<0.002	<0.002
Alpha Chlordane	µg/L	0.002	<0.002	<0.002
Alpha Endosulfan	µg/L	0.005	<0.005	<0.005
Dieldrin	µg/L	0.002	<0.002	<0.002
Endrin	µg/L	0.004	<0.004	<0.004
Beta Endosulfan	µg/L	0.005	<0.005	<0.005
Endosulfan Sulphate	µg/L	0.005	<0.005	<0.005
p,p'-DDT	µg/L	0.002	<0.002	<0.002
Low Level OP Pesticides in Water Method: AN400/AN420				
Azinphos-methyl (Guthion)	µg/L	0.05	<0.05	<0.05
Bromophos Ethyl	µg/L	0.05	<0.05	<0.05
Diazinon (Dimpylate)	µg/L	0.01	<0.01	<0.01
Dichlorvos	µg/L	0.5	<0.5	<0.5
Ethion	µg/L	0.05	<0.05	<0.05
Fenitrothion	µg/L	0.2	<0.2	<0.2
Malathion	µg/L	0.05	<0.05	<0.05
Methidathion	µg/L	0.05	<0.05	<0.05
Surrogates				
d14-p-terphenyl (Surrogate)	%	-	26.0	10.0

Parameter	Units	LOR	Sample Number: PE052327.001 Sample Matrix: Water Sample Name: BH2	Sample Number: PE052327.002 Sample Matrix: Water Sample Name: BH5
Ultra Low Level OP Pesticides in Water Method: AN400/AN420				
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	0.009	<0.009	<0.009
Parathion-ethyl (Parathion)	µg/L	0.004	<0.004	<0.004

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Low Level OC Pesticides in Water Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Lindane (gamma BHC)	LB006052	µg/L	0.05	<0.05	82%
Aldrin	LB006052	µg/L	0.01	<0.01	112%
p,p'-DDE	LB006052	µg/L	0.01	<0.01	94%
p,p'-DDD	LB006052	µg/L	0.01	<0.01	
Methoxychlor	LB006052	µg/L	0.1	<0.1	
Hexachlorobenzene	LB006052	µg/L	0.01	<0.01	91%
Alpha BHC	LB006052	µg/L	0.05	<0.05	
Beta BHC	LB006052	µg/L	0.05	<0.05	
Delta BHC	LB006052	µg/L	0.05	<0.05	
Endrin Ketone	LB006052	µg/L	0.05	<0.05	
Heptachlor epoxide	LB006052	µg/L	0.02	<0.02	

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d14-p-terphenyl (Surrogate)	LB006052	%	-	94.0	92%

Low Level OP Pesticides in Water Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Azinphos-methyl (Guthion)	LB006052	µg/L	0.05	<0.05	
Bromophos Ethyl	LB006052	µg/L	0.05	<0.05	
Diazinon (Dimpylate)	LB006052	µg/L	0.01	<0.01	84%
Dichlorvos	LB006052	µg/L	0.5	<0.5	
Ethion	LB006052	µg/L	0.05	<0.05	
Fenitrothion	LB006052	µg/L	0.2	<0.2	
Malathion	LB006052	µg/L	0.05	<0.05	
Methidathion	LB006052	µg/L	0.05	<0.05	NA

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d14-p-terphenyl (Surrogate)	LB006052	%	-	94.0	92%

Low Level PCBs in Water Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
PCB Congener C28	LB006052	µg/L	0.02	<0.02	
PCB Congener C52	LB006052	µg/L	0.01	<0.01	
PCB Congener C101	LB006052	µg/L	0.004	<0.004	
PCB Congener C118	LB006052	µg/L	0.004	<0.004	
PCB Congener C138	LB006052	µg/L	0.004	<0.004	
PCB Congener C153	LB006052	µg/L	0.004	<0.004	
PCB Congener C180	LB006052	µg/L	0.004	<0.004	118%

Surrogates

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
d14-p-terphenyl (Surrogate)	LB006052	%	-	94.0	92%

QC SUMMARY

MB blank results are compared to the Limit of Reporting
LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.
DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula: *the absolute difference of the two results divided by the average of the two results as a percentage.* Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Ultra Low Level OC Pesticides in Water Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Heptachlor	LB006052	µg/L	0.01	<0.01	107%
Gamma Chlordane	LB006052	µg/L	0.002	<0.002	111%
Alpha Chlordane	LB006052	µg/L	0.002	<0.002	
Alpha Endosulfan	LB006052	µg/L	0.005	<0.005	
Dieldrin	LB006052	µg/L	0.002	<0.002	107%
Endrin	LB006052	µg/L	0.004	<0.004	109%
Beta Endosulfan	LB006052	µg/L	0.005	<0.005	
Endosulfan Sulphate	LB006052	µg/L	0.005	<0.005	
p,p'-DDT	LB006052	µg/L	0.002	<0.002	

Ultra Low Level OP Pesticides in Water Method: ME-(AU)-[ENV]AN400/AN420

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Chlorpyrifos (Chlorpyrifos Ethyl)	LB006052	µg/L	0.009	<0.009	73%
Parathion-ethyl (Parathion)	LB006052	µg/L	0.004	<0.004	110%

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN083	Separatory funnels are used for aqueous samples and extracted by transferring an appropriate volume (mass) of liquid into a separatory funnel and adding 3 serial aliquots of dichloromethane. Samples receive a single extraction at pH 7 to recover base / neutral analytes and two extractions at pH < 2 to recover acidic analytes. QC samples are prepared by spiking organic free water with target analytes and extracting as per samples.
AN400	OC and OP Pesticides by GC-ECD: The determination of organochlorine (OC) and organophosphorus (OP) pesticides and polychlorinated biphenyls (PCBs) in soils, sludges and groundwater. (Based on USEPA methods 3510, 3550, 8140 and 8080.)
AN400	OC and OP Pesticides by GC-ECD: The determination of organochlorine (OC) and organophosphorus (OP) pesticides and polychlorinated biphenyls (PCBs) in soils, sludges and groundwater. (Based on USEPA methods 3510, 3550, 8140 and 8080.)
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
AN420	SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).

FOOTNOTES

IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
*	This analysis is not covered by the scope of accreditation.
^	Performed by outside laboratory.
LOR	Limit of Reporting
↑↓	Raised or Lowered Limit of Reporting
QFH	QC result is above the upper tolerance
QFL	QC result is below the lower tolerance
NA	The sample was not analysed for this analyte

Samples analysed as received.
Solid samples expressed on a dry weight basis.

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

ANALYTICAL REPORT

17 September 2010

Douglas Partners Pty Ltd
96 Hermitage Road
WEST RYDE
NSW 2114

Attention: **Lindsay Rockett**

Your Reference: 71976-01-Randwick Spec-Stable Precinct Cont Asses

Our Reference: SE81160 Samples: 5 Waters
Received: 6/09/2010

Preliminary Report Sent: 17/09/2010

These samples were analysed in accordance with your written instructions.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Production Manager:	Huong Crawford	Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Dong Liang
Quality Manager

Ly Kim Ha
Organics Signatory

Huong Crawford
Metals Signatory

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

MBTEX in Water (µg/L) Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE81160-1 BH2 Water	SE81160-2 BH5 Water	SE81160-5 TB1 Water
Date Extracted (MBTEX)		9/09/2010	9/09/2010	9/09/2010
Date Analysed (MBTEX)		9/09/2010	9/09/2010	9/09/2010
Methyl-tert-butyl ether (MtBE)	µg/L	<1	<1	<1
Benzene	µg/L	<0.5	<0.5	<0.5
Toluene	µg/L	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	<0.5	<0.5	<0.5
Total Xylenes	µg/L	<1.5	<1.5	<1.5
Surrogate	%	107	93	101

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

BTEX in Water (µg/L) Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE81160-4 TS1 Water
Date Extracted (BTEX)		9/09/2010
Date Analysed (BTEX)		9/09/2010
Benzene	µg/L	101%
Toluene	µg/L	104%
Ethylbenzene	µg/L	99%
Total Xylenes	µg/L	96%
Surrogate	%	94

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

TRH C6-C9 by P/T ONLY-in water Our Reference: Your Reference Sample Matrix	 UNITS ---------- ----------	 SE81160-5 TB1 Water
Date Extracted (TRH C6-C9 PT)		9/09/2010
Date Analysed (TRH C6-C9 PT)		9/09/2010
TRH C_6 - C_9 P&T in µg/L	µg/L	<40

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

TRH in water with C6-C9 by P/T Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE81160-1 BH2 Water	SE81160-2 BH5 Water
Date Extracted (TRH C6-C9 PT)		9/09/2010	9/09/2010
Date Analysed (TRH C6-C9 PT)		9/09/2010	9/09/2010
TRH C_6 - C_9 P&T in µg/L	µg/L	<40	<40
Date Extracted (TRH C10-C36)		9/09/2010	9/09/2010
Date Analysed (TRH C10-C36)		9/09/2010	9/09/2010
TRH C_{10} - C_{14}	µg/L	<100	<100
TRH C_{15} - C_{28}	µg/L	<200	<200
TRH C_{29} - C_{36}	µg/L	<200	<200

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

PAHs in Water Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE81160-1 BH2 Water	SE81160-2 BH5 Water	SE81160-3 BD1/030910 Water
Date Extracted		9/09/2010	9/09/2010	9/09/2010
Date Analysed		9/09/2010	9/09/2010	9/09/2010
Naphthalene	µg/L	<0.50	<0.50	<0.50
2-Methylnaphthalene	µg/L	<0.5	<0.5	<0.5
1-Methylnaphthalene	µg/L	<0.5	<0.5	<0.5
Acenaphthylene	µg/L	<0.50	<0.50	<0.50
Acenaphthene	µg/L	<0.50	<0.50	<0.50
Fluorene	µg/L	<0.50	<0.50	<0.50
Phenanthrene	µg/L	<0.50	<0.50	<0.50
Anthracene	µg/L	<0.50	<0.50	<0.50
Fluoranthene	µg/L	<0.50	<0.50	<0.50
Pyrene	µg/L	<0.50	<0.50	<0.50
Benzo[*a*]anthracene	µg/L	<0.50	<0.50	<0.50
Chrysene	µg/L	<0.50	<0.50	<0.50
Benzo[*b,k*]fluoranthene	µg/L	<1.0	<1.0	<1.0
Benzo[*a*]pyrene	µg/L	<0.50	<0.50	<0.50
Indeno[*123-cd*]pyrene	µg/L	<0.50	<0.50	<0.50
Dibenzo[*ah*]anthracene	µg/L	<0.50	<0.50	<0.50
Benzo[*ghi*]perylene	µg/L	<0.50	<0.50	<0.50
Total PAHs	µg/L	<9	<9	<9
Nitrobenzene-d5	%	81	82	83
2-Fluorobiphenyl	%	82	87	88
p -Terphenyl-*d14*	%	88	101	98

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

OCP's Ultra Low LOR-95% ANZECC /ADWG Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE81160-1 BH2 Water	SE81160-2 BH5 Water
OCP's Ultra Low	ug/L	#	#

WORLD RECOGNISED ACCREDITATION

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Ultra Low Level OP-ANZECC 95% by GCMS Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE81160-1 BH2 Water	SE81160-2 BH5 Water
Ultra Low Level OP	µg/L	#	#

WORLD RECOGNISED ACCREDITATION

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

PCBs in Water Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE81160-1 BH2 Water	SE81160-2 BH5 Water
PCB low level	µg/L	#	#

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Phenols in Water Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE81160-1 BH2 Water	SE81160-2 BH5 Water
Date Extracted (Phenols)		13/09/2010	13/09/2010
Date Analysed (Phenols)		13/09/2010	13/09/2010
Total Phenolics (as Phenol)	mg/L	<0.01	<0.01

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Inorganics Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE81160-1 BH2 Water	SE81160-2 BH5 Water
Date Extracted (pH)		8/09/2010	8/09/2010
Date Analysed (pH)		8/09/2010	8/09/2010
pH	pH Units	6.0	5.8

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Anions in water Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE81160-1 BH2 Water	SE81160-2 BH5 Water
Date Extracted		10/09/2010	10/09/2010
Date Analysed		10/09/2010	10/09/2010
Chloride, Cl	mg/L	35	46
Sulphate, SO4	mg/L	95	38

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Trace HM (ICP-MS)-Dissolved Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE81160-1 BH2 Water	SE81160-2 BH5 Water	SE81160-3 BD1/030910 Water
Date Extracted (Metals-ICPMS)		8/09/2010	8/09/2010	8/09/2010
Date Analysed (Metals-ICPMS)		8/09/2010	8/09/2010	8/09/2010
Arsenic	µg/L	<1	<1	<1
Cadmium	µg/L	<0.1	<0.1	<0.1
Chromium	µg/L	2	<1	2
Copper	µg/L	12	2	12
Lead	µg/L	<1	<1	<1
Nickel	µg/L	<1	1	<1
Zinc	µg/L	17	15	15

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE81160-1 BH2 Water	SE81160-2 BH5 Water	SE81160-3 BD1/030910 Water
Date Extracted (Mercury)		8/09/2010	8/09/2010	8/09/2010
Date Analysed (Mercury)		8/09/2010	8/09/2010	8/09/2010
Mercury (Dissolved)	mg/L	<0.0001	<0.0001	<0.0001

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Hardness as CaCO3 Our Reference: Your Reference Sample Matrix	UNITS ---------- ----------	SE81160-1 BH2 Water	SE81160-2 BH5 Water
Date Extracted (Metals)		17/09/2010	17/09/2010
Date Analysed (Metals)		17/09/2010	17/09/2010
Calcium (Dissolved)	mg/L	39	33
Magnesium (Dissolved)	mg/L	5.4	6.2
Hardness as CaCO3 (by calc.)	mg/L	120	108

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
AN420	Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates, and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD/FID technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
Ext-003	Analysis subcontracted to SGS Environmental Services Perth, NATA Accreditation No. 2562, Site No. 898.
AN289	Total Phenols - Determined by colourimetric method using Discrete Analyser, following distillation of the sample. Based on APHA 21st Edition 5530B and 5530D.
AN101	pH - Measured using pH meter and electrode based on APHA 21st Edition, 4500-H+. For water analyses the results reported are indicative only as the sample holding time requirement specified in APHA was not met (APHA requires that the pH of the samples are to be measured within 15 minutes after sampling).
SEI-038	Water Soluble Chloride After carrying out a 1:5 soil:water extraction, an aliquot of the extract is reacted with mercuric thiocyanate forming a mercuric chloride complex. In the presence of ferric iron, highly coloured ferric thiocyanate is formed which is proportional to the chloride concentration. Reference NEPM, Schedule B(3), 401 and APHA 4500Cl- Water Soluble Sulphate After carrying out a 1:5 soil:water extraction ,sulphate in the extract is precipitated in an acidic medium with barium chloride. The resulting turbidity is measured photometrically at 405nm and compared with standard calibration solutions to determine the sulphate concentration in the sample. Reference NEPM, Schedule B(3), 401 and APHA 4500-SO42-.
AN318	Determination of elements at trace level in waters by ICP-MS technique, in accordance with USEPA 6020A.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
AN124	Hardness - determined by a calculation based on the Calcium and Magnesium content of the sample, in accordance with APHA 21st Edition, 2340B.

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Method ID	Methodology Summary

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL MBTEX in Water (µg/L)	UNITS	LOR	METHOD	Blank
Date Extracted (MBTEX)				09/09/10
Date Analysed (MBTEX)				09/09/10
Methyl-tert-butyl ether (MtBE)	µg/L	1	SEO-018	<1
Benzene	µg/L	0.5	SEO-018	<0.5
Toluene	µg/L	0.5	SEO-018	<0.5
Ethylbenzene	µg/L	0.5	SEO-018	<0.5
Total Xylenes	µg/L	1.5	SEO-018	<1.5
Surrogate	%	0	SEO-018	122

QUALITY CONTROL BTEX in Water (µg/L)	UNITS	LOR	METHOD	Blank
Date Extracted (BTEX)				09/09/10
Date Analysed (BTEX)				09/09/10
Benzene	µg/L	0.5	SEO-018	<0.5
Toluene	µg/L	0.5	SEO-018	<0.5
Ethylbenzene	µg/L	0.5	SEO-018	<0.5
Total Xylenes	µg/L	1.5	SEO-018	<1.5
Surrogate	%	0	SEO-018	122

QUALITY CONTROL TRH C6-C9 by P/T ONLY-in water	UNITS	LOR	METHOD	Blank
Date Extracted (TRH C6-C9 PT)				09/09/10
Date Analysed (TRH C6-C9 PT)				09/09/10
TRH C_6 - C_9 P&T in µg/L	µg/L	40	SEO-018	<40

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL TRH in water with C6-C9 by P/T	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				09/09/10	[NT]	[NT]	[NR]	[NR]
Date Analysed (TRH C6-C9 PT)				09/09/10	[NT]	[NT]	[NR]	[NR]
TRH C_6 - C_9 P&T in µg/L	µg/L	40	SEO-018	<40	[NT]	[NT]	[NR]	[NR]
Date Extracted (TRH C10-C36)				09/09/10	[NT]	[NT]	SE81160-1	09/09/10
Date Analysed (TRH C10-C36)				09/09/10	[NT]	[NT]	SE81160-1	09/09/10
TRH C_{10} - C_{14}	µg/L	100	SEO-020	<100	[NT]	[NT]	SE81160-1	102%
TRH C_{15} - C_{28}	µg/L	200	SEO-020	<200	[NT]	[NT]	SE81160-1	107%
TRH C_{29} - C_{36}	µg/L	200	SEO-020	<200	[NT]	[NT]	SE81160-1	102%

QUALITY CONTROL PAHs in Water	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				09/09/10	[NT]	[NT]	SE81160-2	09/09/10
Date Analysed				09/09/10	[NT]	[NT]	SE81160-2	09/09/10
Naphthalene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	SE81160-2	83%
2-Methylnaphthalene	µg/L	0.5	SEO-030	<0.5	[NT]	[NT]	[NR]	[NR]
1-Methylnaphthalene	µg/L	0.5	SEO-030	<0.5	[NT]	[NT]	[NR]	[NR]
Acenaphthylene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	SE81160-2	81%
Acenaphthene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	SE81160-2	94%
Fluorene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	[NR]	[NR]
Phenanthrene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	SE81160-2	94%
Anthracene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	SE81160-2	94%
Fluoranthene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	SE81160-2	94%
Pyrene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	SE81160-2	105%
Benzo[a]anthracene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	[NR]	[NR]
Chrysene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	[NR]	[NR]
Benzo[b,k]fluoranthene	µg/L	1	SEO-030	<1.0	[NT]	[NT]	[NR]	[NR]
Benzo[a]pyrene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	SE81160-2	73%
Indeno[123-cd]pyrene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	[NR]	[NR]
Dibenzo[ah]anthracene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	[NR]	[NR]
Benzo[ghi]perylene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	[NR]	[NR]

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL PAHs in Water	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Total PAHs	µg/L	9	SEO-030	<9	[NT]	[NT]	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	97	[NT]	[NT]	SE81160-2	90%
2-Fluorobiphenyl	%	0	SEO-030	87	[NT]	[NT]	SE81160-2	95%
p -Terphenyl-*d* 14	%	0	SEO-030	87	[NT]	[NT]	SE81160-2	107%

QUALITY CONTROL OCP's Ultra Low LOR-95% ANZECC /ADWG	UNITS	LOR	METHOD	Blank
OCP's Ultra Low	ug/L		AN420	<0.01

QUALITY CONTROL Ultra Low Level OP-ANZECC 95% by GCMS	UNITS	LOR	METHOD	Blank
Ultra Low Level OP	µg/L		AN420	<0.5

QUALITY CONTROL PCBs in Water	UNITS	LOR	METHOD	Blank
PCB low level	µg/L		Ext-003	<0.1

QUALITY CONTROL Phenols in Water	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Phenols)				13/09/2010	[NT]	[NT]	LCS	13/09/2010
Date Analysed (Phenols)				13/09/2010	[NT]	[NT]	LCS	13/09/2010
Total Phenolics (as Phenol)	mg/L	0.01	AN289	<0.01	[NT]	[NT]	LCS	90%

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL Inorganics	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (pH)				[NT]	SE81160-1	8/09/2010 || 8/09/2010
Date Analysed (pH)				[NT]	SE81160-1	8/09/2010 || 8/09/2010
pH	pH Units	0	AN101	[NT]	SE81160-1	6.0 || 6.0 || RPD: 0

QUALITY CONTROL Anions in water	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				10/09/10	SE81160-1	10/09/2010 || 10/09/2010	SE81160-2	10/09/10
Date Analysed				10/09/10	SE81160-1	10/09/2010 || 10/09/2010	SE81160-2	10/09/10
Chloride, Cl	mg/L	0.05	SEI-038	<0.05	SE81160-1	35 || 35 || RPD: 0	SE81160-2	98%
Sulphate, SO4	mg/L	0.1	SEI-038	<0.1	SE81160-1	95 || 95 || RPD: 0	SE81160-2	100%

QUALITY CONTROL Trace HM (ICP-MS)-Dissolved	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals-ICPMS)				08/09/10	[NT]	[NT]	LCS	8/09/2010
Date Analysed (Metals-ICPMS)				08/09/10	[NT]	[NT]	LCS	8/09/2010
Arsenic	µg/L	1	AN318	<1	[NT]	[NT]	LCS	101%
Cadmium	µg/L	0.1	AN318	<0.1	[NT]	[NT]	LCS	94%
Chromium	µg/L	1	AN318	<1	[NT]	[NT]	LCS	102%
Copper	µg/L	1	AN318	<1	[NT]	[NT]	LCS	99%
Lead	µg/L	1	AN318	<1	[NT]	[NT]	LCS	96%
Nickel	µg/L	1	AN318	<1	[NT]	[NT]	LCS	102%
Zinc	µg/L	1	AN318	<1	[NT]	[NT]	LCS	97%

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)				8/09/2010	[NT]	[NT]	LCS	8/09/2010
Date Analysed (Mercury)				8/09/2010	[NT]	[NT]	LCS	8/09/2010
Mercury (Dissolved)	mg/L	0.0001	SEM-005	<0.0001	[NT]	[NT]	LCS	101%

QUALITY CONTROL Hardness as CaCO3	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)				17/09/2010	[NT]	[NT]		08/09/10
Date Analysed (Metals)				17/09/2010	[NT]	[NT]		08/09/10
Calcium (Dissolved)	mg/L	0.1	SEM-010	<0.1	[NT]	[NT]		109%
Magnesium (Dissolved)	mg/L	0.1	SEM-010	<0.1	[NT]	[NT]		110%
Hardness as CaCO3 (by calc.)	mg/L	1	AN124	[NT]	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL MBTEX in Water (µg/L)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (MBTEX)		[NT]	[NT]	SE81160-2	09/09/10
Date Analysed (MBTEX)		[NT]	[NT]	SE81160-2	09/09/10
Methyl-tert-butyl ether (MtBE)	µg/L	[NT]	[NT]	SE81160-2	121%
Benzene	µg/L	[NT]	[NT]	SE81160-2	123%
Toluene	µg/L	[NT]	[NT]	SE81160-2	127%
Ethylbenzene	µg/L	[NT]	[NT]	SE81160-2	124%
Total Xylenes	µg/L	[NT]	[NT]	SE81160-2	125%
Surrogate	%	[NT]	[NT]	SE81160-2	92%

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

QUALITY CONTROL TRH in water with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		[NT]	[NT]	SE81160-2	09/09/10
Date Analysed (TRH C6-C9 PT)		[NT]	[NT]	SE81160-2	09/09/10
TRH C_6 - C_9 P&T in µg/L	µg/L	[NT]	[NT]	SE81160-2	117%
Date Extracted (TRH C10-C36)		[NT]	[NT]	[NR]	[NR]
Date Analysed (TRH C10-C36)		[NT]	[NT]	[NR]	[NR]
TRH C_{10} - C_{14}	µg/L	[NT]	[NT]	[NR]	[NR]
TRH C_{15} - C_{28}	µg/L	[NT]	[NT]	[NR]	[NR]
TRH C_{29} - C_{36}	µg/L	[NT]	[NT]	[NR]	[NR]

SGS Australia Pty Ltd
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Low level OC/OP/PCB analysed by SGS-Perth, report No. PE052327 R0, report attached.
Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)
This document is issued by the Company subject to its General Conditions of Service (www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein.

This document is to be treated as an original within the meaning of UCP 600. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Appendix F

Quality Assurance and Quality Control

QA/QC PROCEDURES AND RESULTS

Q1. FIELD QUALITY ASSURANCE AND QUALITY CONTROL

The field QC procedures for sampling as prescribed in Douglas Partners *Field Procedures Manual* were followed at all times during the assessment.

Q1.1 Sampling Team

Field sampling was undertaken by DP Environmental Scientist Nizam Ahamed. Soil samples were collected on 20, 23 August and 3 September 2010. Sampling was undertaken during fine or overcast weather conditions.

Q1.2 Sample Collection

Sample collection procedures and dispatch are reported in Section 8.

Q1.3 Logs

Logs for each sampling location were recorded in the field. The individual samples were recorded on the field logs along with the sample identity, location, depth, initials of sampler, duplicate locations, duplicate type, site observations. Analysis to be performed on each sample and the dispatch courier were recorded on the COC, Appendix E. Logs are presented in Appendix D.

Q1.4 Chain of Custody

Chain of custody information was recorded on the Chain of Custody (COC) sheets and accompanied samples to the analytical laboratory. Signed copies of COCs are presented in Appendix D, following the laboratory reports.

Q1.5 Sample Splitting Techniques

Replicate and triplicate samples were collected in the field as a measure of accuracy, precision and repeatability of the results. Field replicate samples for soil were collected from the same location and an identical depth to the primary sample. Equal portions of the primary sample were placed into the sampling jars and sealed. The sample was not homogenised in a bowl and then split to prevent the loss of volatiles from the soil. Replicate samples were labelled with a DP identification number, recorded on DP bore logs, so as to conceal their relationship to their primary sample from the analysing laboratory.

Q1.6 Duplicate Frequency

Field sampling comprised replicate and triplicate sampling, at a rate of approximately one duplicate sample for every ten original samples for intra-laboratory analysis.

Q1.7 Field Blank Results

A field blank is a sample taken as an indication to demonstrate correct field handling. A rinsate sample was not required within the scope of the current assessment. This is further discussed in Section Q1.9.

Q1.8 Background Sample

A background sample is representative of natural background soil conditions. Background samples were collected from the natural soils as part of this assessment to assess the chemical characteristics local natural soils.

Q1.9 Rinsate Samples

Soil samples were collected from auger cuttings and test pit returns by hand while wearing disposable gloves which were changed between samples. Therefore no rinsate sample was required. It also noted that the results of the soil and groundwater samples do not show any evidence of cross contamination.

Q1.10 Trip Spikes

According to *the NSW EPA Guidelines for Consultants Reporting on Contaminated Sites (1997)*, laboratory prepared trip spikes are to be taken into the field, subjected to the same preservation methods as the field samples, then analysed, for the purposes of determining the losses in volatile organics incurred prior to reaching the laboratory.

The practicalities of trip spikes are currently being debated and a detailed procedure is yet to be finalised. Discussions with the laboratory indicated that trip spikes are generally prepared as aqueous solutions. The laboratory prepared an aqueous trip spike and two soil trip spikes which were preserved in the standard manner and taken into the field unopened. The volatile organic recovery rates are shown below. At this stage, the laboratory has no standard acceptance limits in recovery rates as results from in-house laboratory controls often vary. Results (Table D1) indicate that the percentage loss for BTEX during the trip was minimal and therefore appropriate preservation techniques were employed.

Table D1: Trip Spike Results

Sample ID	Matrix	Recovery (%)			
		Benzene	Toluene	Ethyl Benzene	Total xylene
Trip Spike 200810	soil	60%	66%	84%	64%
Trip Spike 230810	soil	90%	83%	84%	86%
Trip Spike 030910	water	101%	104%	99%	96%

Q1.11 Trip Blanks

Laboratory prepared soil and water trip blanks were taken out to the field unopened, subjected to the same preservation methods as the field samples, then analysed for the purposes of determining the transfer of contaminants into the blank sample incurred prior to reaching the laboratory. The result of the laboratory analysis for the trip blanks is shown in Tables D2.

Table D2: Trip Blank Results – TPH/BTEX mg/kg

Sample ID	matrix	Benzene	Toluene	Ethyl Benzene	Total xylene
Trip Blank 200810	soil	<0.5	<0.5	<1	<3
Trip Blank 230810	soil	<0.5	<0.5	<1	<3
Trip Blank 030910	water	<0.5	<0.5	<0.5	<1.5

Levels of analytes were all below detection limits for soil and groundwater indicating that cross contamination had not occurred during the course of the round trip from the site to the laboratory.

Q1.12 Field Instrument Calibration

All soil samples were screened for the presence of Total Photo-Ionisable Compounds (TOPIC) using a calibrated Photo-Ionisation Detector (PID). The PID was calibrated at Enviroequip and in the field with Isobutylene gas.

Q1.13 Relative Percentage Difference

A measure of the consistency of results for field samples is derived by the calculation of relative percentage differences (RPDs) for duplicate samples. A RPD of +/- 30% is generally considered typically acceptable for inorganic analytes by EPA, although in general a wider RPD range (50%) may be acceptable for organic analytes.

Q1.13.1 Intra-Laboratory Analysis

Intra-laboratory duplicates were conducted as an internal check of the reproductively within the primary laboratory (SGS Pty Ltd) and as a measure of consistency of sampling techniques. Replicate samples were collected at a rate of approximately one replicate sample for every ten original samples collected and also analysed at a rate of 10% of primary samples analysed. In total, one soil sample and one groundwater sample and their intra-laboratory replicate pairs were analysed for heavy metals, TPH and PAHs.

The comparative results of analysis between original and duplicate samples are summarised in the tables below.

Table D3: Intra-laboratory Soil Results Heavy Metals

	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn
BH2/ 0.3-0.6	<3	<0.3	3.8	50	280	0.22	1.5	92
BD1/ 200810	<3	<0.3	1.8	34	73	0.1	<0.5	58
Difference	0	0	2	16	207	0.12	1	34
RPD (%)	0	0	**71**	**38**	**117**	**75**	**100**	**45**

Table D4: Intra-laboratory Soil Results TPH

	C6-C9	C10-C36
2/0.4-0.5	<20	<120
BD2 230810	<20	<120
Difference	0	0
RPD (%)	**0**	**0**

Most of calculated RPD values were within the acceptable range of ± 30 for inorganic analytes (± 50% for organic) for the sample and its duplicates with the exception of chromium. However, this is not considered to be of concern due to:

The low actual differences in the concentrations of the replicate pairs;

- Replicates, rather than homogenised duplicates were used to avoid volatile loss;
- The duplicate samples being collected in filling material which is heterogeneous in nature, therefore differences are representative of the material and not the result inconsistencies in the sampling technique or laboratory precision; and
- Most of the recorded concentrations being at/ close to the practical quantitation limit.
- All other QA/QC parameters met the DQI's

Table D5: Intra-laboratory Groundwater Results Heavy Metals and TPH

	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	B(a)P	PAH
BH2	<1	<0.1	2	12	<1	<0.1	<1	17	<0.5	<PQL
BD1/030910	<1	<0.1	2	12	<1	<0.1	<1	15	<0.5	<PQL
Difference	0	0	2	0	0	0	0	0	0	0
RPD (%)	0	0	0	0	0	0	0	0	0	0

The RPD for heavy metals and PAHs in the groundwater samples was found to be within the acceptable range (± 30%). Therefore, it is considered that the results indicate an acceptable consistency between the groundwater sample and the replicate sample.

It is considered that the results, overall, indicate an acceptable consistency between the samples and their replicates and indicate that suitable field sampling methodology was adopted and laboratory precision was achieved.

Q2. LABORATORY QUALITY ASSURANCE AND QUALITY CONTROL

Q2.1 Chain of Custody

Chain of custody information was recorded on the Chain of Custody (COC) sheets and accompanied samples to the analytical laboratory. COCs contained receipt date and time and the identity of samples. Signed copies of COCs are presented in Appendix E, following the laboratory reports.

Q2.2 Holding Times

A review of the laboratory report sheets and chain-of-custody documentation indicated that holding times were met, as summarised in the table below.

Table D6: Holding Times

Matrix	Analyte	Recommended maximum holding time	Holding time met
Soil	Heavy Metals: As, Cd, Cr, Cu, Pb, Hg, Ni, Zn	6 months	Yes
	TPH C_6-C_9	14 days	Yes
	TPH C_{10}-C_{36}	14 days	Yes
	BTEX	14 days	Yes
	PAH	14 days	Yes
	OCP	14 days	Yes

Matrix	Analyte	Recommended maximum holding time	Holding time met
	OPP	14 days	Yes
	PCB	14 days	Yes
	Phenols	14 days	Yes
	pH	7 days	Yes
	Asbestos	Nil	yes
	EC	7 days	Yes
	pH	7 days	Yes
	Sulphate	28 days	Yes
	Chloride	28 days	Yes
Water	Heavy Metals: As, Cd, Cr, Cu, Pb, Hg, Ni, Zn	6 months	Yes
	TPH C6-C9	14 days	Yes
	TPH C10-C36	14 days	Yes
	BTEX	14 days	Yes
	PAH	7 days	Yes
	OCP	7 days	Yes
	OPP	7 days	Yes
	Phenols	28 days	Yes

Q2.3 Analytical Laboratory

Samples were submitted to the following laboratories for analysis:

- Primary Laboratory: SGS Pty Ltd (Alexandria);
- Secondary Laboratory: Labmark Environmental Laboratories (Asquith)

Both laboratories are NATA accredited. SGS' accreditation number is 2562 and is accredited for compliance with ISO/IEC 17025. SGS' tests comply with NATA and NEPM. In house procedures are employed by Envirolab in the absence of documented standards.

Labmark's NATA accreditation number is: 13542. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA/ APHA documents.

Q2.4 Analytical Methods

The laboratory analytical methods are provided on the laboratory certificates in Appendix E.

The following QA/QC procedures were conducted by the laboratory. The results are included in the laboratory reports in Appendix E.

Q2.5 Surrogate Spike

This sample is prepared by adding a known amount of surrogate, which behaves similarly to the analyte, prior to analysis to each sample. The recovery result indicates the proportion of the known concentration of the surrogate that is detected during analysis. These results are within acceptance limits as specified in SGS's report, indicating that the extraction technique was effective.

The laboratory acceptance criteria for surrogate samples is generally 60-140% for organics; and 10-140% for SVOC and speciated phenols.

Q2.6 Practical Quantitation Limits - PQLs

The PQL is the lowest quantity of an analyte which can be detected during the analysis. PQLs at different analytical laboratories can differ based on the analytical techniques.

Q2.7 Reference and Daily Check Sample Results – Laboratory Control Sample (LCS)

This sample comprises spiking either a standard reference material or a control matrix (such as a blank of sand or water) with a known concentration of specific analytes. The LCS is then analysed and results compared against each other to determine how the laboratory has performed with regard to sample preparation and analytical procedure. LCSs are analysed at a frequency of 1 in 20, with a minimum of one analysed per batch.

The laboratory acceptance criteria for LCS samples is generally 70-130% for inorganic/ metals; and 60-140% for organics; and 10-140% for SVOC and speciated phenols.

Q2.8 Laboratory Duplicate Results

These are additional portions of a sample which are analysed in exactly the same manner as all other samples. The laboratory acceptance criteria for duplicate samples is: in cases where the level is <5xPQL – any RPD is acceptable; and in cases where the level is >5xPQL – 0-50% RPD is acceptable.

Q2.9 Laboratory Blank Results

The laboratory blank, sometimes referred to as the method blank or reagent blank is the sample prepared and analysed at the beginning of every analytical run, following calibration of the analytical apparatus. This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, it can be determined by processing solvents and reagents in exactly the same manner as for samples. Laboratory blanks are analysed at a frequency of 1 in 20, with a minimum of one per batch.

Q2.10 Matrix Spike

This is a sample duplicate prepared by adding a known amount of analyte prior to analysis, and then treated exactly the same as all other samples. The recovery result indicates the proportion of the known concentration of the analyte that is detected during analysis. The laboratory acceptance criteria for matrix spike samples is generally 70-130% for inorganic/metals; and 60-140% for organics; and 10-140% for SVOC and speciated phenols.

Q2.11 Results of Laboratory QA

The laboratory QA for surrogate spikes, LCS, laboratory duplicate results, method blanks and matrix spikes were generally within the acceptance standards.

It was therefore considered that an acceptable level of laboratory precision and consistency was achieved and that surrogate spikes, LCS, laboratory duplicate results, method blanks and matrix spike results were of an acceptable level.