coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 20/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 99.9 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
BH7	0.5-0.7	1	0.00	0.9		
	1.0-1.2	1	0.00	0.7		
	1.5-1.7	1	0.00	0.5		
	2.5-2.7	1	0.00	1.7		
	3.5-3.7	1	0.00	0.7		
	4.0-4.2	1	0.00	0.7		
	4.9-5.0	1	0.00	0.6		
	6.8-7.0	1	0.00	0.9		
	8.8-9.0	1	0.00	0.8		
BH10	0.5-0.7	1	0.00	1.1		
	1.0-1.2	1	0.00	1.2		
	1.5-1.7	1	0.00	0.9		DUP 3
	2.5-2.7	1	0.00	1.1		
	3.5-3.7	1	0.00	1.0		
	4.5-4.7	1	0.00	1.3		
	5.5-5.7	1	0.00	1.5		
	7.0-7.2	1	0.00	1.2		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **( )** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 20/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 99.9 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
BH10	10.0-10.2	1	0.00	1.0		
	12.4-12.5	1	0.00	1.3		

Fill in the test type as follows:- BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)
HS ( ) = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 21/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 100.1 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
BH17	0.5-0.7	1	0.00	1.2		21/5/2008
	1.0-1.2	1	0.00	1.1		
	1.5-1.7	1	0.00	0.9		
	2.5-2.7	1	0.00	0.4		
BH21	0.5-0.7	1	0.00	0.5		
	1.0-1.2	1	0.00	0.5		DUP 5, DUP 5A
	1.5-1.7	1	0.00	0.5		
	2.5-2.7	1	0.00	0.4		
BH23	0.5-0.7	1	0.00	0.2		
	1.0-1.2	1	0.00	0.6		
	1.5-1.7	1	0.00	0.5		
	2.5-2.7	1	0.00	0.4		
	2.9-3.0	1	0.00	0.3		
BH24	0.5-0.7	1	0.00	0.5		
	1.0-1.2	1	0.00	0.4		
	1.5-1.7	1	0.00	0.5		
	2.5-2.7	1	0.00	0.4		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **( )** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 21/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 100.1 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
BH24	2.9-3.0	1	0.00	0.4		
BH22	0.5-0.7	1	0.00	0.8		
	1.0-1.2	1	0.00	0.7		
	1.5-1.7	1	0.00	0.5		
	2.5-2.7	1	0.00	0.5		
BH18	0.5-0.7	1	0.00	0.9		
	1.0-1.2	1	0.00	0.6		DUP 6
	1.5-1.7	1	0.00	0.7		
	2.5-2.7	1	0.00	0.4		
	3.5-3.7	1	0.00	0.4		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **( )** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 23/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 99.8 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
BH11	0.5-0.7	1	0.00	0.3		23/5/2008
	1.0-1.2	1	0.00	0.3		
	1.5-1.5	1	0.00	0.6		DUP 7
	2.5-2.7	1	0.00	0.6		
	3.5-3.7	1	0.00	0.4		
	4.3-4.5	1	0.00	0.4		
	7.0-7.2	1	0.00	0.4		
	8.5-8.7	1	0.00	0.5		
	12.2-12.4	1	0.00	0.6		
BH13	0.3-0.5	1	0.00	0.6		
	0.7-1.0	1	0.00	0.5		
	1.5-1.7	1	0.00	1.0		DUP 8, DUP 8A
	2.5-2.7	1	0.00	0.5		
	3.9-4.0	1	0.00	0.5		
	5.3-5.5	1	0.00	0.9		
	6.7-7.0	1	0.00	0.5		
	0.3-0.5	1	0.00	0.3		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **( )** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 23/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 99.8 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
BH12	0.7-1.0	1	0.00	0.4		23/5/2008
	1.5-1.7	1	0.00	0.3		
	2.3-2.5	1	0.00	0.4		
	3.8-4.0	1	0.00	0.5		
	6.8-7.0	1	0.00	0.2		
	8.3-8.5	1	0.00	0.6		
	9.8-10.0	1	0.00	0.8		
BH5	0.3-0.5	1	0.00	1.2		
	1.0-1.2	1	0.00	6.5		DUP 10
	1.3-1.5	1	0.00	27	21	DUP 11, DUP 11A
	2.5-2.7	1	0.00	1.0		
BH20	0.5-0.7	1	0.00	0.5		
	1.0-1.2	1	0.00	0.6		
	2.0-2.2	1	0.00	0.4		
	2.5-2.7	1	0.00	0.4		
BH8	0.5-0.7	1	0.00	0.2		
	1.0-1.2	1	0.00	0.4		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **( )** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 23/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 99.8 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
BH8	1.5-1.7	1	0.00	0.5		23/5/2008
	2.5-2.7	1	0.00	0.3		

Fill in the test type as follows:- BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)
HS ( ) = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 26/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: PD

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 101.00 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
MW4	0.3-0.5	1	0.00	0.3		26/5/2008 – PD
	0.7-1.0	1	0.00	0.4		
	1.3-1.5	1	0.00	0.2		
BH25	0.5-0.7	1	0.00	0.2		26/5/2008 – NC
	1.0-1.2	1	0.00	0.2		
	1.5-1.7	1	0.00	0.3		
	2.5-2.7	1	0.00	0.3		
	3.5-3.7	1	0.00	0.3		
BH28	0.5-0.7	1	0.00	0.5		
	1.5-1.7	1	0.00	0.4		
BH29	0.5-0.7	1	0.00	0.4		
	1.5-1.7	1	0.00	0.2		
BH30	0.5-0.7	1	0.00	0.4		DUP Z 1
	1.5-1.7	1	0.00	0.5		
	2.5-2.7	1	0.00	0.3		
BH31	0.5-0.7	1	0.00	0.4		
	1.0-1.2	1	0.00	0.4		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **(** **)** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 26/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: PD

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 101.00 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
BH31	1.9-2.0	1	0.00	0.3		26/5/2008
BH33	0.5-0.7	1	0.00	0.8		
	1.0-1.2	1	0.00	0.8		
	1.5-1.7	1	0.00	0.5		
	2.3-2.4	1	0.00	0.5		
BH34	0.5-0.7	1	0.00	0.3		
	1.0-1.2	1	0.00	0.3		
	1.9-2.0	1	0.00	0.4		
BH35	0.5-0.7	1	0.00	0.3		
	1.0-1.2	1	0.00	0.4		
BH38	0.5-0.7	1	0.00	0.4		
	1.0-1.2	1	0.00	0.5		
	1.5-1.7	1	0.00	0.3		
	2.5-2.7	1	0.00	0.4		
	3.9-4.0	1	0.00	0.4		
	5.4-5.5	1	0.00	0.4		
BH45	0.5-0.7	1	0.00	0.5		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **( )** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 26/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: PD

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 101.00 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
BH45	1.0-1.2	1	0.00	0.6		26/5/2008
	1.5-1.7	1	0.00	0.4		
	2.5-2.7	1	0.00	0.5		
	3.9-4.0	1	0.00	0.5		
BH37	0.5-0.7	1	0.00	0.4		DUP Z 5
	1.0-1.2	1	0.00	0.5		
	1.5-1.7	1	0.00	0.3		
	2.5-2.7	1	0.00	0.3		
	3.9-4.0	1	0.00	0.4		
MW4	0.3-0.5	1	0.00	0.3		
	0.7-1.0	1	0.00	0.4		
	1.3-1.5	1	0.00	0.2		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **(** **)** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 275/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: PD

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 99.7 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
Mw11	0.5-0.7	1	0.00	0.7		
	1.0-1.2	1	0.00	0.4		
	1.5-1.7	1	0.00	0.4		
	2.5-2.7	1	0.00	0.7		
	3.9-4.0	1	0.00	0.5		
MW12	0.5-0.7	1	0.00	0.8		
	1.0-1.2	1	0.00	0.8		
	1.5-1.7	1	0.00	0.8		
	2.5-2.7	1	0.00	0.7		
	3.4-3.5	1	0.00	0.8		
MW15	0.5-0.7	1	0.00	0.9		
	1.0-1.2	1	0.00	0.8		
	1.5-1.7	1	0.00	0.8		DUP Z 7
	2.5-2.7	1	0.00	0.8		
	3.4-3.5	1	0.00	0.8		
	4.5-4.7	1	0.00	0.7		
	5.2-5.3	1	0.00	0.7		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **( )** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 285/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 100.2 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
MW16	0.5-0.7	1	0.00	0.8		28/5/2008
	1.0-1.2			0.7		DUP Z 9, DUP Z 9A
	1.5-1.7			0.7		
	2.5-2.7			0.6		
	3.5-3.7			0.7		
BH36	0.3-0.4			0.6		
	1.0-1.2			0.5		
	1.5-1.7			0.7		
	2.5-2.7			0.6		
MW14	0.5-0.7			1.0		
	1.0-1.2			0.9		
	1.5-1.7			0.6		
	2.5-2.7			0.5		
	3.9-4.0			0.7		
BH27	0.5-0.7			1.0		
	1.0-1.2			0.8		DUP Z 8
	1.5-1.7			0.7		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **(** **)** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 285/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 100.2 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
BH27	1.9-2.0	1	0.00	0.5		28/5/2008
MW10	0.5-0.7	1	0.00	0.9		
	1.0-1.2	1	0.00	0.7		
	1.5-1.7	1	0.00	0.7		
	1.9-2.0	1	0.00	0.7		

Fill in the test type as follows:- BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)
HS ( ) = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 295/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 99.7 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
BH42	0.5-0.7	1	0.00	1.0		29/5/2008
	1.0-1.2	1	0.00	0.8		
	1.5-1.7	1	0.00	0.7		
	2.5-2.7	1	0.00	0.7		
BH39	0.5-0.7	1	0.00	0.8		DUP Z 11, DUP Z 11A
	1.0-1.2	1	0.00	0.9		
	1.5-1.7	1	0.00	0.7		
	2.5-2.7	1	0.00	0.7		
	3.9-4.0	1	0.00	0.7		
	4.9-5.0	1	0.00	0.6		
MW13	0.5-0.7	1	0.00	1.1		DUP Z 10
	1.0-1.2	1	0.00	0.9		
	1.5-1.7	1	0.00	0.8		
	2.5-2.7	1	0.00	0.8		
	3.5-3.7	1	0.00	0.7		
BH32	0.5-0.7	1	0.00	1.1		
	1.0-1.2	1	0.00	0.8		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **( )** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 295/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 99.7 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
BH32	1.5-1.7	1	0.00	0.8		29/5/2008
	2.5-2.7	1	0.00	0.7		

Fill in the test type as follows:- BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)
HS ( ) = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 30/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 100.1 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
MW9	0.5-0.7	1	0.00	0.7		30/5/2008
	1.0-1.2	1	0.00	0.5		
	1.5-1.7	1	0.00	0.4		
	2.5-2.7	1	0.00	0.4		
BH26	0.5-0.7	1	0.00	0.9		
	1.0-1.2	1	0.00	0.8		
	1.5-1.7	1	0.00	0.7		
	2.5-2.7	1	0.00	0.7		
BH44	0.5-0.7	1	0.00	0.7		
	1.0-1.2	1	0.00	0.6		
	1.5-1.7	1	0.00	0.6		
BH41	0.5-0.7	1	0.00	1.0		DUP Z 12
	1.0-1.2	1	0.00	0.8		
	1.5-1.7	1	0.00	0.7		
	2.5-2.7	1	0.00	0.7		
BH40	0.5-0.7	1	0.00	0.6		
	1.0-1.2	1	0.00	0.6		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **( )** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 30/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 100.1 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
BH40	1.3-1.4	1	0.00	0.6		30/5/2008
BH46	0.5-0.7	1	0.00	0.7		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **(** **)** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 31/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 100.00 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
MW18	0.5-0.7	1	0.00	0.7		31/5/2008
	1.0-1.2	1	0.00	0.7		
	1.5-1.7	1	0.00	0.7		
	2.5-2.7	1	0.00	0.6		
	3.5-3.7	1	0.00	0.6		
	4.3-4.4	1	0.00	0.6		
BH47	0.2-0.3	1	0.00	0.8		
	0.5-0.7	1	0.00	0.7		
	1.0-1.2	1	0.00	0.7		
BH51	0.5-0.7	1	0.00	1.7		DUP Z 14
MW17	0.5-0.7	1	0.00	0.8		
	0.8-0.9	1	0.00	0.8		
	1.5-1.7	1	0.00	1.1		
	2.5-2.7	1	0.00	1.3		
BH52	0.2-0.3	1	0.00	0.6		
	0.5-0.7	1	0.00	0.6		
	1.0-1.2	1	0.00	0.6		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **( )** = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 31/5/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 100.00 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
MW19	0.5-0.7	1	0.00	0.7		31/5/2008
	1.0-1.2	1	0.00	0.8		

Fill in the test type as follows:- BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)
HS ( ) = headspace sample (with soil type-unified classification system in parentheses)

coffey environments

job no: ENVILCOV00315AH

form E5.1 - photoionisation detector results

client:	***Valad Properties Group***	office:	***LANE COVE***
principal:		date:	**19/5/08 – 3/6/08**
project:	***ESA, 630-276 Princes Hwy***	by:	**NC**
location:	***Tempe, NSW***	checked by:	**BS**
PID serial number:	***MINIRAE 2000 (SN: 110-009460)***	lamp voltage:	***10.6eV***

PID Calibration Record

Date / Time of Calibration: 3/6/2008

☑ Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

Calibrated by: NC

Calibration gas: 100 ppm ISOBUTYLENE

☑ Span Calibration (100 ppm) Actual Reading 99.3 ppm

SAMPLE ID	DEPTH	DURATION (mins)	BACKGROUND READING (ppm)	MAXIMUM READING (ppm)	LAST READING (ppm)	NOTES
MW20	0.5-0.7	1	0.00	0.3		
	1.0-1.2	1	0.00	0.3		DUP Z 13, DUP Z 13A
	1.5-1.7	1	0.00	0.2		
	1.9-2.0	1	0.00	0.2		

Fill in the test type as follows:-

BH ( ) = soil gas probe sample; (soil type - unified classification system in parentheses)

HS **( )** = headspace sample (with soil type-unified classification system in parentheses)

Appendix H
Groundwater Field Measurement Forms

Contamination Assessment
630 - 726 Princes Highway, Tempe

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 5/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW2 METER ID: WQM2 TOTAL WELL DEPTH: 15.000 m SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

15.000 m (-) 10.335 m (=) 4.665 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

9.330 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
10:32am	NA	9	10.335	1.8	1.7	1860	9	6.33	0.02	419	41	18.80	**0**	**Slight hydrocarbon odour**
10:36am	NA	9	-	0.1		1851		6.31		378		18.80		**Slight hydrocarbon odour**
10:41am	NA	-	-	-		-		-		-		-		**Bailed dry @ 18L**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: _____ TRIPLICATE COLLECTED: Y ☐ N ☐ TRIPLICATE ID: _____

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 5/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW4 METER ID: WQM2 TOTAL WELL DEPTH: 10.000 SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

10.000 m (-) 3.943 m (=) 6.057 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

12.114 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
10:54 am	NA	10	3.943	3.2	3.1	1034	32	6.01	0.02	265	7	18.52	**0.01**	**No odour**
11:10 am	NA	10	-	0.9		1061		6.01		272		18.52		**No odour**
11:19 am	NA	10	-	0.1		1066		5.99		271		18.51		**No odour**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: _____ TRIPLICATE COLLECTED: Y ☐ N ☐ TRIPLICATE ID: _____

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 5/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW6 METER ID: WQM2 TOTAL WELL DEPTH: 15.000 m SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

15.000 m (-) 7.117 m (=) 7.883 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

15.766 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
12:30 am	NA	16	7.117	5.0	2.3	5550	315	5.43	0.08	402	45	18.31	**0.16**	**No odour**
12:43 am	NA	16	-	2.8		5865		5.47		383		18.20		**No odour**
12:54 am	NA	16	-	2.7		5788		5.51		357		18.36		**No odour**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: DUP03 TRIPLICATE COLLECTED: Y N ☐ RIP ☐ TE ID:

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 5/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW7 METER ID: WQM2 TOTAL WELL DEPTH: 8.500 SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other: WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

8.500 m (-) 4.858 m (=) 3.642 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

7.284 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
11:50 am	NA	7	4.858	2.2	1.0	1460	39	3.98	0.17	459	10	18.75	**0.11**	**No odour**
11:59 am	NA	7	-	2.3		1440		4.09		458		18.78		**No odour**
12:09 am	NA	7	-	1.2		1479		3.92		468		18.86		**No odour**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: DUP01 TRIPLICATE COLLECTED: Y N T☐ICA☐D: DUP01A

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 5/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW8 METER ID: WQM2 TOTAL WELL DEPTH: 12.600 m SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

12.600 m (-) 7.482 m (=) 5.118 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

10.236 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
1:30 pm	NA	10	7.482	1.2	0.8	3163	39	6.53	0.10	234	33	18.38	**0.23**	**Moderate chemical odour/sheen**
1:43 pm	NA	10	-	0.5		3137		6.60		209		18.51		**Moderate chemical odour/sheen**
1:50 pm	NA	10	-	0.4		3098		6.63		201		18.61		**Moderate chemical odour/sheen**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: TRIPLICATE COLLECTED: Y ☐ N ☐ TRIPLICATE ID:

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 5/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW9 METER ID: WQM2 TOTAL WELL DEPTH: 11.600 m SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

11.600 m (-) 3.627 m (=) 7.973 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

15.946 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
4:10 pm	NA	16	3.627	2.4	0.4	8000	0	4.45	0.33	434	18	18.59	**0.17**	**No odour**
4:22 pm	NA	16	-	2.8		8000		4.53		422		18.53		**No odour**
4:31 pm	NA	16	-	2.6		8000		4.78		416		18.42		**No odour**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: TRIPLICATE COLLECTED: Y ☐ N ☐ TRIPLICATE ID:

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 5/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW10 METER ID: WQM2 TOTAL WELL DEPTH: 7.000 m SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

7.000 m (-) 2.358 m (=) 4.642 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

9.284 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
3:35 pm	NA	9	2.358	3.4	2.2	510	73	4.77	0.13	412	3	18.67	**0.17**	**No odour**
3:46 pm	NA	9	-	1.8		555		4.86		413		18.78		**No odour**
3:56 pm	NA	9	-	1.2		583		4.94		415		18.75		**No odour**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: TRIPLICATE COLLECTED: Y ☐ N ☐ TRIPLICATE ID:

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 5/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW11 METER ID: WQM2 TOTAL WELL DEPTH: 10.000 m SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

=10.000 m (-) 3.722 m (=) 6.278 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

12.556 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
2:55 pm	NA	9	3.722	4.9	3.5	1922	93	5.11	0.06	357	18	17.97	**0.23**	**No odour**
3:08 pm	NA	9	-	2.0		1970		5.05		371		18.20		**No odour**
3:11 pm	NA	9	-	1.4		2015		5.11		375		18.18		**No odour**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: TRIPLICATE COLLECTED: Y ☐ N ☐ TRIPLICATE ID:

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 6/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW12 METER ID: WQM2 TOTAL WELL DEPTH: 8.700 m SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

=8.700 m (-) 1.701 m (=) 6.999 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

13.998 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
8:30 am	NA	14	1.701	3.5	0.7	2320	128	4.97	0.13	443	3	18.49	**0.24**	**No odour**
8:36 am	NA	14	-	2.9		2299		4.84		446		18.54		**No odour**
8:45 am	NA	14	-	2.8		2427		4.91		445		18.30		**No odour**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: TRIPLICATE COLLECTED: Y ☐ N ☐ TRIPLICATE ID:

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 6/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW13 METER ID: WQM2 TOTAL WELL DEPTH: 9.000 m SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

=9.000 m (-) 1.432 m (=) 7.568 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

15.136 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
8:55 am	NA	15	1.432	2.4	1.5	2234	619	6.06	0.59	418	13	17.07	**0.54**	**Slight hydrocarbon odour/sheen**
9:10 am	NA	15	-	1.1		2837		5.92		405		17.58		**Slight hydrocarbon odour/sheen**
9:14 am	NA	15	-	0.9		2853		5.47		411		17.61		**Slight hydrocarbon odour/sheen**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: TRIPLICATE COLLECTED: Y ☐ N ☐ TRIPLICATE ID:

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 6/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW14 METER ID: WQM2 TOTAL WELL DEPTH: 10.500 m SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

=10.500 m (-) 2.210 m (=) 8.290 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

16.582 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
10:00 am	NA	16	2.210	3.6	1.7	1713	40	5.63	1.00	422	25	18.52	**0.12**	**No odour**
10:11 am	NA	16	-	1.9		1683		4.77		442		18.46		**No odour**
10:15 am	NA	16	-	1.9		1723		4.63		447		18.40		**No odour**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: TRIPLICATE COLLECTED: Y ☐ N ☐ TRIPLICATE ID:

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 6/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW15 METER ID: WQM2 TOTAL WELL DEPTH: 14.000 m SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

=14.000 m (-) 3.599 m (=) 10.401 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

20.802 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
10:45 am	NA	20	3.599	2.8	0.2	2257	46	4.96	0.22	434	8	18.26	**0.48**	**No odour**
10:54 am	NA	20	-	2.8		2211		4.86		432		18.03		**No odour**
11:09 am	NA	20	-	2.6		2314		4.74		440		17.78		**No odour**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: TRIPLICATE COLLECTED: Y ☐ N ☐ TRIPLICATE ID:

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 6/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW16 METER ID: WQM2 TOTAL WELL DEPTH: 15.000 m SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

=15.000 m (-) 3.556 m (=) 11.444 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

22.888 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
11:15 am	NA	20	3.556	4.4	1.8	574	369	5.34	0.39	445	16	19.15	**0.28**	**No odour**
11:25 am	NA	20	-	2.8		943		5.68		431		19.08		**Slight hydrocarbon odour**
11:38 am	NA	20	-	2.6		937		5.73		429		18.87		**No odour**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: TRIPLICATE COLLECTED: Y ☐ N ☐ TRIPLICATE ID:

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 5/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW19 METER ID: WQM2 TOTAL WELL DEPTH: 13.000 m SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

13.000 m (-) 9.744 m (=) 3.256 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

6.512 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
1:00 pm	NA	7	9.744	0.78	0.5	1013	13	6.83	0.27	461	17	21.83	**0.16**	**Moderate hydrocarbon odour/sheen**
1:11 pm	NA	7	-	0.72		1045		6.62		451		21.98		**Moderate hydrocarbon odour/sheen**
1:18 pm	NA	7	-	0.28		1062		6.56		468		21.99		**Moderate hydrocarbon odour/sheen**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: DUP2 TRIPLICATE COLLECTED: Y ☐ N ☐ ☐ TRIPLICATE ID: DUP2A

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

coffey environments

GROUNDWATER SAMPLING FORM (A)

PROJECT NAME: Valad Property Tempe

PROJECT NUMBER: ENVILCOV00315AH

FIELD PERSONNEL: Nathan Fuser/Nick Cowan

DATE: 5/6/08

PROJECT MANAGER: Benedict Smith

WELL ID: MW20 METER ID: WQM2 TOTAL WELL DEPTH: 11.500 m SCREEN INTERVAL:

EQUIPMENT USED: BAILER ☐ WATERRA ☐ Other:_____ WELL DIAMETER: 50 mm WELL STICK-UP:

WELL GAUGING AND PURGE VOLUME CALCULATIONS

TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN

11.500 m (-) 5.762 m (=) 5.378 m

Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct volume to be removed from the well and enter it on the right

LITRES PER 1 WELL VOLUME

11.476 L

TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSOLVED OXYGEN (mg/l)		ELECTRICAL CONDUCTIVITY (mS or µS/cm)		pH (pH units)		REDOX POTENTIAL (mV)		TEMPERATURE (°C)		COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
				READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	
9:40am	NA	8	5.762	1.5	0.3	1644	44	6.77	0.08	306	77	18.62	**0.23**	**No odours**
9:50am	NA	8	-	1.3		1614		6.69		283		18.84		**No odours**
10:00am	NA	8	-	1.2		1600		6.72		269		18.85		**No odours**
STABILISATION CRITERIA (3 Readings within following Ranges)			± 0.05	± 10%		± 10 mv		± 10%		± 10%		± 0.1°C		

DUPLICATE COLLECTED: Y ☐ N ☐ DUPLICATE ID: _____ TRIPLICATE COLLECTED: Y ☐ N ☐ TRIPLICATE ID: _____

WERE METALS FIELD FILTERED? Y ☐ N ☐ (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))

Appendix I
Laboratory Reports and Documentation

Contamination Assessment
630 - 726 Princes Highway, Tempe

29 May 2008 **TEST REPORT**

Coffey Environments Pty Ltd
8/12 Mars Road
LANE COVE WEST
NSW 2066

Your Reference: EC00315AM
Report Number: 61172

Attention: Benedict Smith

Dear Benedict
The following samples were received from you on the date indicated.

Samples:	Qty.	88 Soils
Date of Receipt of Samples:		22/05/08
Date of Receipt of Instructions:		22/05/08
Date Preliminary Report Emailed:		Not Issued

These samples were analysed in accordance with your written instructions.
A copy of the instructions is attached with the analytical report.

The results and associated quality control are contained in the following pages of this report. Unless otherwise stated, solid samples are expressed on a dry weight basis (moisture has been supplied for your information only), air and liquid samples as received.

Should you have any queries regarding this report please contact the undersigned.

Yours faithfully
SGS ENVIRONMENTAL SERVICES

Edward Ibrahim
Lab Manager

This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562 (4354). This report must not be reproduced except in full.

SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16, 33 Maddox Street, Alexandria Australia
t (02) 8594 0400 f (02) 8594 0499
www.au.sgs.com
Member of the SGS Group

11 June 2008 **TEST REPORT**

Coffey Environments Pty Ltd
8/12 Mars Road
LANE COVE WEST
NSW 2066

Your Reference: EL00315AH
Report Number: 61516

Attention: Benedict Smith

Dear Benedict
The following samples were received from you on the date indicated.

Samples:	Qty.	175 Soils
Date of Receipt of Samples:		04/06/08
Date of Receipt of Instructions:		04/06/08
Date Preliminary Report Emailed:		Not Issued

These samples were analysed in accordance with your written instructions.
A copy of the instructions is attached with the analytical report.

The results and associated quality control are contained in the following pages of this report. Unless otherwise stated, solid samples are expressed on a dry weight basis (moisture has been supplied for your information only), air and liquid samples as received.

Should you have any queries regarding this report please contact the undersigned.

Yours faithfully
SGS ENVIRONMENTAL SERVICES

Edward Ibrahim
Lab Manager

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SGS Australia Pty Ltd
ABN 44 000 964 278
Environmental Services Unit 16, 33 Maddox Street, Alexandria Australia
t (02) 8594 0400 f (02) 8594 0499
www.au.sgs.com
Member of the SGS Group

Asbestos ID in soil						
Our Reference:	UNITS	61516-1	61516-10	61516-17	61516-25	61516-29
Your Reference	----------	BH11	BH13	BH12	BH5	BH20
Sample Type	----------	Soil	Soil	Soil	Soil	Soil
Depth		0.5-0.7	0.3-0.5	0.3-0.5	0.3-0.5	0.5-0.7
Date Sampled		23/05/2008	23/05/2008	23/05/2008	23/05/2008	23/05/2008
Date Analysed		11/06/2008	11/06/2008	11/06/2008	11/06/2008	11/06/2008
Sample Description		41g clay, sand	25g soil, sand, clay, rocks	107g soil, rocks	45g soil, rocks	65g soil, clay
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:	UNITS	61516-33	61516-37	61516-40	61516-45	61516-47
Your Reference	----------	BH8	MW4	BH25	BH28	BH29
Sample Type	----------	Soil	Soil	Soil	Soil	Soil
Depth		0.5-0.7	0.3-0.5	0.5-0.7	0.5-0.7	0.5-0.7
Date Sampled		23/05/2008	26/05/2008	26/05/2008	26/05/2008	26/05/2008
Date Analysed		11/06/2008	11/06/2008	11/06/2008	11/06/2008	11/06/2008
Sample Description		37g soil, clay, rocks	80g clay	50g clay	37g clay	52g clay
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:	UNITS	61516-49	61516-52	61516-55	61516-59	61516-62
Your Reference	----------	BH30	BH31	BH33	BH34	BH35
Sample Type	----------	Soil	Soil	Soil	Soil	Soil
Depth		0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7
Date Sampled		26/05/2008	26/05/2008	26/05/2008	26/05/2008	26/05/2008
Date Analysed		11/06/2008	11/06/2008	11/06/2008	11/06/2008	11/06/2008
Sample Description		64g soil, sand, rocks	51g soil	54g soil	45g soil, rocks	62g soil, rocks
Asbestos ID in soil	-	Chrysotile asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

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Asbestos ID in soil **Our Reference:** **Your Reference** **Sample Type** **Depth** **Date Sampled**	**UNITS** ---------- ----------	**61516-64** **BH38** **Soil** **0.5-0.7** **26/05/2008**	**61516-70** **BH45** **Soil** **0.5-0.7** **26/05/2008**	**61516-75** **BH37** **Soil** **0.5-0.7** **26/05/2008**	**61516-80** **MW15** **Soil** **0.5-0.7** **27/05/2008**	**61516-87** **MW11** **Soil** **0.5-0.7** **27/05/2008**
Date Analysed		11/06/2008	11/06/2008	11/06/2008	11/06/2008	11/06/2008
Sample Description		41g clay, rocks	67g soil, clay, rocks	30g soil, clay, rocks	48g clay, soil	55g clay, soil
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 Type Depth Date Sampled	UNITS ---------- ----------	61516-92 MW12 Soil 0.5-0.7 27/05/2008	61516-97 MW16 Soil 0.5-0.7 28/05/2008	61516-102 BH36 Soil 0.3-0.4 28/05/2008	61516-106 MW14 Soil 0.5-0.7 28/05/2008	61516-111 BH27 Soil 0.5-0.7 28/05/2008
Date Analysed		11/06/2008	11/06/2008	11/06/2008	11/06/2008	11/06/2008
Sample Description		31g clay, soil	47g clay, sand	43g clay, sand, soil	55g soil, clay	49g soil, rocks
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 Type Depth Date Sampled	UNITS ---------- ----------	61516-115 MW10 Soil 0.5-0.7 28/05/2008	61516-118 BH42 Soil 0.5-0.7 29/05/2008	61516-122 BH39 Soil 0.5-0.7 29/05/2008	61516-128 MW13 Soil 0.5-0.7 29/05/2008	61516-133 BH32 Soil 0.5-0.7 29/05/2008
Date Analysed		11/06/2008	11/06/2008	11/06/2008	11/06/2008	11/06/2008
Sample Description		52g soil, rocks	48g clay	38g soil, clay	61g soil, clay	62g soil, clay
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

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Asbestos ID in soil **Our Reference:** **Your Reference** **Sample Type** **Depth** **Date Sampled**	**UNITS** **----------** **----------**	**61516-137** **BH41** **Soil** **0.5-0.7** **30/05/2008**	**61516-144** **BH46** **Soil** **0.5-0.7** **30/05/2008**	**61516-145** **MW9** **Soil** **0.5-0.7** **30/05/2008**	**61516-149** **BH26** **Soil** **0.5-0.7** **30/05/2008**	**61516-153** **BH44** **Soil** **0.5-0.7** **30/05/2008**
Date Analysed		11/06/2008	11/06/2008	11/06/2008	11/06/2008	11/06/2008
Sample Description		69g soil, clay	28g soil, clay, rocks	46g soil	48g soil, clay, rocks	46g clay
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 Type Depth Date Sampled	UNITS ---------- ----------	61516-156 MW18 Soil 0.5-0.7 31/05/2008	61516-162 BH47 Soil 0.2-0.3 31/05/2008	61516-166 MW17 Soil 0.5-0.7 31/05/2008	61516-170 BH52 Soil 0.2-0.3 31/05/2008	61516-171 MW19 Soil 0.5-0.7 31/05/2008
Date Analysed		11/06/2008	11/06/2008	11/06/2008	11/06/2008	11/06/2008
Sample Description		60g soil, clay	43g soil, rocks	39g soil, clay	97g sand, rocks, clay	77g clay
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected	Amosite asbestos detected	No asbestos detected

Asbestos ID in soil Our Reference: Your Reference Sample Type Depth Date Sampled	UNITS ---------- ----------	61516-173 MW20 Soil 0.5-0.7 3/06/2008
Date Analysed		11/06/2008
Sample Description		23g soil, clay
Asbestos ID in soil	-	No asbestos detected

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Method ID	Methodology Summary
AN602	Qualitative identification of asbestos type fibres in bulk using Polarised Light Microscopy and Dispersion Staining Techniques. Accreditation does not cover the identification of Synthetic Mineral Fibre.

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Result Codes

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

Report Comments

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. Asbestos analysed by Approved Identifier Edward Ibrahim.
Sample # 49 : 1mm length fibre bundles found in 2x2x1mm cement sheet fragment.
Sample # 170 : 1-2mm length fibre bundle found loose in sample.

Date Organics extraction commenced: N/A
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Dioxins/Furans* and PAH in XAD and PUF).
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Any other 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.

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 and can be provided on request.

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Asbestos ID in soil						
Our Reference:	UNITS	61172-1	61172-10	61172-13	61172-18	61172-27
Your Reference	----------	MW6	BH2	BH4	BH7	BH10
Sample Type	----------	Soil	Soil	Soil	Soil	Soil
Depth		0.5-0.7	0.5-0.8	0.5-0.7	0.5-0.7	0.5-0.7
Date Sampled		20/05/2008	20/05/2008	20/05/2008	20/05/2008	20/05/2008
Date Analysed		28/05/2008	28/05/2008	28/05/2008	28/05/2008	28/05/2008
Sample Description		70g soil, rocks	110g clay	95g soil, clay, rock	80g soil, rock	70g soil
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:	UNITS	61172-38	61172-42	61172-45	61172-50	61172-54
Your Reference	----------	BH17	BH21	BH23	BH24	BH22
Sample Type	----------	Soil	Soil	Soil	Soil	Soil
Depth		1.0-1.2	1.0-1.2	0.5-0.7	0.5-0.7	0.5-0.7
Date Sampled		21/05/2008	21/05/2008	21/05/2008	21/05/2008	21/05/2008
Date Analysed		28/05/2008	28/05/2008	28/05/2008	28/05/2008	28/05/2008
Sample Description		64g soil, rock	45g clay	70g soil, clay	75g soil, clay	66g soil, clay, rock
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected	Synthetic Mineral Fibres detected*	No asbestos detected

Asbestos ID in soil						
Our Reference:	UNITS	61172-59	61172-63	61172-70	61172-76	61172-80
Your Reference	----------	BH18	BH3	BH9	MW2 D2	BH6
Sample Type	----------	Soil	Soil	Soil	Soil	Soil
Depth		1.0-1.2	0.5-0.7	1.0-1.2		1.0-1.2
Date Sampled		21/05/2008	19/05/2008	19/05/2008	19/05/2008	19/05/2008
Date Analysed		28/05/2008	28/05/2008	28/05/2008	28/05/2008	28/05/2008
Sample Description		40g soil, sand	40g clay	88g soil	50g clay	60g soil, rock, clay
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

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Method ID	Methodology Summary
AN602	Qualitative identification of asbestos type fibres in bulk using Polarised Light Microscopy and Dispersion Staining Techniques. Accreditation does not cover the identification of Synthetic Mineral Fibre.

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Result Codes

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

Report Comments

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. Asbestos analysed by Approved Identifier Edward Ibrahim.

Date Organics extraction commenced: N/A
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Dioxins/Furans* and PAH in XAD and PUF).
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Any other 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.

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

Unless otherwise specified in the test method, the following general acceptance criteria apply:

Method Blanks:	<LOR
Duplicates:	<5 x LOR: No RPD criteria applied.
	>5 x LOR: 0-30% RPD is accepted.
LCS's:	Determined by Control Charts.
	Where control charts have not been developed, the Matrix Spikes criteria apply.
Matrix Spikes:	70-130% recovery is accepted for metals / inorganics.
	60-140% is accepted for organics.
Surrogates:	60-130% recovery is accepted for BTEX.
	70-130% recovery is accepted for other organics.

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Chain of Custody

No: 4452

Laboratory Quotation / Order No: [illegible]

Job No: [illegible] Sheet 1 of 6

Dispatch to: SGS	Sampler: NC	Consigning Officer:
		Date Dispatched:
Attention:	Project Manager / Report results to: [illegible] Smith	Courier Service:
		Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
N Cam[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NC			[illegible]	[illegible]	[illegible]

Comments	Sample Matrix	Container Type and Preservation	Sample No.	Date Sampled	Analyses Required																Sample Condition
1	Soil	[illegible] Bag	[illegible]	[illegible]					✓												
2			[illegible]																		
3			[illegible]																		
4			[illegible]																		
5			[illegible]																		
6			[illegible]																		
7			[illegible]																		
8			[illegible]																		
9			[illegible]																		
10			BH2 [illegible]						✓												
11			[illegible]																		
12			[illegible]																		
13			[illegible]						✓												
14			[illegible]																		
15			[illegible]																		
16			[illegible]																		
17			[illegible]																		

Received: 21/05
By: TP
Time: 1:40
Comments: 61172

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

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Chain of Custody

No: 4453

Laboratory Quotation / Order No:

Job No: R00353AH Sheet 2 of 6

Report to: Address & Phone No:	Sampled by:	Consigning Officer: Date Dispatched:
Attention:	Project Manager: Send results to:	Courier Service: Consignment Note No: [signature]

Relinquished by:	Date	Time	Received by:	Date	Time
NC	22/5		[signature]	24/5	1:00

Comments	Sample Matrix	Container Type and Preservation	Sample No.	Date Sampled	PAHs	TPHs	Metals (ICP)	Metals	[illegible]	Sample Condition on Receipt
18	SOIL		BH7 0.5-0.7	24/5/11					✓	
19			1.0-1.2							
20			1.5-1.7							
21			2.5-2.7							
22			3.5-3.7							
23			4.8-5.0							
24			5.5-[illegible]							
25			6.8-7.0							
26			7.8-8.0							
27			BH10 0.5-0.7						✓	
28			1.0-1.2							
29			1.5-1.7							
30			2.5-2.7							
31			3.5-3.7							
32			[illegible]-[illegible]							
33			[illegible]-[illegible]							
34			7.0-7.2							

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

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Chain of Custody

No: 4454

[illegible] Quotation / Order No:

Job No: [illegible] Sheet 3 of 6

[illegible]: SGS	[illegible]: N.C	[illegible]
[illegible]	[illegible]: Benedict Smith	[illegible] G

[illegible]	Date	Time	[illegible]	Date	Time
NC			[illegible]	[illegible]	[illegible]

Comments	[illegible]	[illegible]	Sample No.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
35	Soil	[illegible] Bag	BH10 [illegible]	[illegible]					
36			1.? - 1.5						
37			BH? 0.5 - 0.7	[illegible]					
38			1.0 - 1.2						✓
39			1.5 - 1.7						
40			2.5 - 2.7						
41			BH21 0.5 - 0.7						
42			1.0 - 1.2						✓
43			1.5 - 1.7						
44			2.5 - 2.7						✓
45			BH13 0.5 - 0.7						✓
46			1.0 - 1.2						
47			1.5 - 1.7						
48			2.5 - 2.7						
49			2.9 - 3.0						
50			BH? 0.5 - 0.7						✓
51			1.0 - 1.2						

[illegible] Laboratory Instructions:

[illegible] Limits:

Turnaround Required:

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[illegible]

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Chain of Custody

No: 4455

Laboratory Quotation / Order No:

Job No: [illegible] Sheet 4 of 6

Dispatch to: (Address & Phone No.) SGS	Sampled by: [illegible]	Consigning Officer: Date Dispatched:
Attention:	Project Manager (report results to): [illegible]	Courier Service: Consignment Note No.: [illegible]

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[illegible]			[illegible]	[illegible]	[illegible]

Comments	Sample Matrix	Container Type and Preservation	Sample No.	Date Sampled	Analysis Request	Sample Condition on Receipt
52	So	Zip loc Bag	[illegible] 1.5-1.7	21/5/[illegible]		
53			2.5-2.7			
54			BH22 0.5-0.7		✓	
55			1.0-1.2			
56			1.5-1.7			
57			2.5-2.7			
58			[illegible] 0.5-0.7			
59			1.0-1.2		✓	
60			1.5-1.7			
61			2.5-2.7			
62			3.5-3.7			
63			[illegible] 0.5-0.7	19/5/[illegible]	✓	
64			1.0-1.2			
65			[illegible]			
66			2.5-2.7			
67			3.5-3.7			
68			4.5-4.7			

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

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Chain of Custody

No: 4456

[Laboratory Quotation / Order No.]

Job No: R0031SAH Sheet 5 of 6

Dispatch to: Address & Phone No.: SGS	Sampled by: R.C	Consigning Officer: Date Dispatched:
Attention:	Project Manager (send results to): [illegible]	Courier Service: Consignment Note No: [illegible]

Relinquished by	Date	Time	Received by	Date	Time
[illegible]			[illegible]	[illegible]	[illegible]

Comments	Sample Matrix	Container Type and Preservation	Sample No.	Date Sampled	PAHs	TPH	BTEX / [illegible]	Metals	[illegible]											Turnaround / [illegible]
69	Soil	1 x [illegible] Bag	[illegible]	[illegible]																
70			[illegible] 1.0-1.2						✓											
71			1.5-1.7																	
72			2.5-2.7																	
73			3.5-3.7																	
74			[illegible]																	
75			[illegible] 01																	
76			02						✓											
77			03																	
78			04																	
79			[illegible]																	
80			1.0-1.2						✓											
81			[illegible]																	
82			[illegible]																	
83			[illegible]																	
84			[illegible]																	
85			[illegible]																	

Special Laboratory Instructions:

Detection Limits: Turnaround Required:

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Chain of Custody

No: 4457

Laboratory Quotation / Order No:

Job No: R.00313AH Sheet 6 of 6

Dispatch to: Address & Phone No: SGS	Sampled by: N-C	Consigning Officer: Date Dispatched:
Attention:	Project Manager: Send results to: Brendan Smith	Courier Service: Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[illegible]			[illegible]	[illegible]	[illegible]

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]											Sample Condition on Receipt
86	Soil	Zip lock bag	[illegible] 27.0-27	11/1/03																
87			3.5-3.7	[illegible]																
88			BH14 1.9-2.0																	

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: [illegible] YELLOW: [illegible] BLUE: [illegible]

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Chain of Custody

Laboratory Quotation / Order No: A 36 T-19.3°C

Job No: EL0051591[illegible]

No: 4337

Sheet: 1 of 10

Dispatch to: (Address & Phone No.) SGS		Sampled by: Nick Coumarr[illegible]	Consigning Officer: L. C. [illegible] Date Dispatched: 9911 1000
Attention: ALEX		Project Manager (report results to): Bencket Smith	Courier Service: Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/6/08		A. [signature] [signature]	[illegible]	

Comments	Sample Matrix	Container Type and Preservation	Sample No.	Date Sampled	PAHs	TPHs	TPHs + BTEX	Metals	Asbestos									Sample Condition on Receipt
	Soil		1 BH1 0.5-0.7	23/5/08					✓									
	↓		2 1.1-1.3	↓														
			3 [illegible]															
			4 [illegible]															
			5 [illegible]															
			6 [illegible]															
			7 [illegible]															
			8 2.5-2.7															
			9 [illegible]															
			10 BH3 [illegible]						✓									
			11 [illegible]															
			12 [illegible]															
			13 [illegible]															
			14 [illegible]															
			15 [illegible]															
			16 [illegible]															
	↓		17 BH12 0.3-0.5	↓					✓									

Received: 4/6
By: D
Time: 10:30
Comment: 61510

Special Laboratory Instructions:

Detection Limits: Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

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Laboratory Quotation / Order No:

Job No: EL003/5[illegible]

No: 4338

Sheet 2 of 10

Dispatch to: (Address & Phone No.) SGS	Sampled by: Nick Cowman	Consigning Officer: LC OFFICE Date Dispatched:
Attention: ALEX	Project Manager (report results to): Jeremy Smith	Courier Service: Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/6		[signature]	4/6	

Comments	Sample Matrix	Container Type and Preservation	Sample No.	Date Sampled	PAHs	TRH	Metals + BTEX	Metals	Asbestos											Sample Condition on Receipt
	SOIL		18 BH12 / 0.7-1.0	13/5/[illegible]																
			19 1.5-1.7																	
			20 2.5-2.7																	
			21 3.8-4.0																	
			22 [illegible]																	
			23 [illegible]																	
			24 [illegible]-10.0																	
			25 BH15 0.3-0.5						✓											
			26 [illegible]																	
			27 [illegible]																	
			28 [illegible]																	
			29 BH20 0.5-0.7						✓											
			30 [illegible]																	
			31 [illegible]																	
			32 4.5-4.7																	
			33 BH[illegible] 0.5-0.7						✓											
			34 [illegible]						✓											

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: Sign on release. YELLOW: [illegible] BLUE: [illegible]

coffey Chain of Custody

Laboratory Quotation / Order No:

Job No: ELVASWITH

No: 4339

Sheet 3 of 10

Dispatch to: Address & Phone No: SCS	Sampled by: NICK COWMAN	Consigning Officer: LAND OAK Date Dispatched: THU NOON
Attention: ALEX	Project Manager: Report results to: BENEDICT SMITH	Courier Service: Consignment Note No:

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4/6/08		[signature] E Slyke 52	x/6	

Comments	Sample Matrix	Container Type and Preservation	Sample No.	Date Sampled	PAHs	TRH	TRH + BTEX	Metals	? Asbestos										Sample Condition on Receipt
	Soil		35 BH8 1.5-1.7	23/5/08															
			36 1.5-1.7																
			37 MW24 0.3-0.5	15/5/08					✓										
			38 MW24 0.7-0.8																
			39 1.5-1.7																
			40 BH15 0.5-0.7						✓										
			41 1.5-1.7																
			42 1.5-1.7																
			43 1.5-2.7																
			44 1.5-1.7																
			45 BH22 0.5-0.7						✓										
			46 1.5-1.7																
			47 BH29 0.5-0.7						✓										
			48 1.5-1.7																
			49 BH32 0.5-0.7						✓										
			50 1.5-1.7																
			51 1.5-1.7																

Special Laboratory Instructions:

Detection Limits: Turnaround Required:

JOB NUMBER **MUST** BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: **WHITE**: Sign on release **YELLOW**: Retained by Relinquisher/Lab, Lab to sign on receipt and fax back to Coffey **BLUE**: To be returned with results

coffey

Chain of Custody

Laboratory Quotation / Order No: EW0315AH

Job No:

No: 4340

Sheet 4 of 10

Dispatch to: Address & Phone No.: SCS	Sampled by: NICK CUMMINS	Consigning Officer: CHRIS COLE Date Dispatched: 9/11/2015
Attention: ALEX	Project Manager (person results to): BENEDICT SMITH	Courier Service: Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
NICK CUMMINS	9/11/15		[illegible]	9/11	

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analysis Required: PAHs	TPHs	MAHs + PTEX	Metals	Asbestos											Sample Condition on Receipt
		62	BH31 0.5-0.7						/											
		63	1.0-1.1																	
		64	1.5-1.6																	
		65	BH35 0.5-0.7						/											
		66	1.0-1.1																	
		67	1.5-1.7																	
		68	2.1-2.3																	
		54	BH34 0.5-0.7						/											
		60	1.0-1.1																	
		61	1.4-1.6																	
		62	BH35 0.4-0.7						/											
		63	1.0-1.2																	
		64	BH36 0.5-0.7						/											
		65	1.0-1.2																	
		66	1.3-1.7																	
		67	2.1-2.3																	
		68	2.7-2.9																	

Special Laboratory Instructions:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

coffey

Chain of Custody

Laboratory Quotation / Order No:

Job No: EL0035/41

No: 4341

Sheet: 5 of 10

Dispatch to: Address & Phone No.:	SGS
Sampled by:	Nick Bowman
Consigning Officer:	Law Car
Date Dispatched:	
Attention:	ALEX
Project Manager (send results to):	Scott S...
Courier Service:	
Consignment Note No:	

Relinquished by	Date	Time	Received by	Date	Time
[signature]	4/6/08		[signature]	4/6	

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	PAHs	TPHs	MAHs + BTEX	Metals	[illegible]											Sample Condition on Receipt
	Soil		69 BH38 5.4-5.5	24/5/08																
	↓		70 BH45 0.3-0.7	↓					✓											
			71 1.0-1.2																	
			72 1.5-1.7																	
			73 2.5-2.7																	
			74 3.5-4.0																	
			75 BH57 0.3-0.7						✓											
			76 1.0-1.2																	
			77 1.5-1.7																	
			78 2.5-2.7																	
			79 3.5-4.0																	
			80 MW15 0.5-0.7	27/5/08					✓											
			81 1.0-1.2																	
			82 1.5-1.7																	
			83 2.5-2.7																	
			84 3.5-3.7																	
	↓		85 4.5-4.7	↓																

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER **MUST** BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: **WHITE**: Sign on receipt. **YELLOW**: If dispatched to secondary lab, Lab to sign on receipt and fax back to Coffey. **BLUE**: To be returned with results.

coffey

Chain of Custody

Laboratory Quotation / Order No:

Job No: EL0015AH

No: 4342

Sheet: 6 of 10

Dispatch to: Address & Phone No:	SGS	Sampled by:	Nick Cowman	Consigning Officer:	Lane Cove
				Date Dispatched:	4/6/08
Attention:	ALEX	Project Manager: (send results to)	Benedict Smith	Courier Service:	
				Consignment Note No:	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/6/08		[signature]	4/6	

Comments	Sample Matrix	Container Type and Preservation	Sample No.	Date Sampled	PAHs	TPHs	Metals + BTEX	Metals	Asbestos	Sample Condition on Receipt
	Soil	86	MW15 5.2-5.3	27/4/08						
	↓	87	MW10 0.5-0.7	↓					✓	
	↓	88	1.0-1.2	↓						
	↓	89	1.5-1.7	↓						
	↓	90	2.5-2.7	↓						
	↓	91	3.5-4.0	↓						
	↓	92	MW12 0.5-0.7	↓					✓	
	↓	93	1.0-1.2	↓						
	↓	94	1.5-1.7	↓						
	↓	95	2.5-2.7	↓						
	↓	96	3.4-3.5	↓						
	↓	97	MW16 0.5-0.7	16/4/08					✓	
	↓	98	1.0-1.2	↓						
	↓	* 99	1.5-1.7	↓						
	↓	100	2.5-2.7	↓						
	↓	101	3.5-3.7	↓						
	↓	102	BH36 0.1-0.4	↓					✓	

Special Laboratory Instructions:

Detection Limits: Turnaround Required:

JOB NUMBER **MUST** BE REFERENCED ON ALL SUBSEQUENT PAGES

coffey

Chain of Custody

Laboratory Quotation / Order No:

Job No: ELOD3SSH

No: 4343

Sheet 7 of 10

Dispatch to: Address & Phone No.: SGS	Sampled by: Nick Eowman	Consigning Officer: Lane Cove Office	Date Dispatched: 7/11/1000
Attention: ALEX	Project Manager (report results to): Jenny Smith	Courier Service:	Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/6/08		[signature]	4/6	

Comments	Sample Matrix	Container Type and Preservative	Sample No.		Date Sampled	[illegible]	[illegible]	[illegible]	[illegible]	Asbestos	Sample Condition on Receipt
	Soil	103	BH36	1.0-1.5	28/5/08						
		104		1.5-1.7							
		105		2.5-2.7							
		106	MW19	0.5-0.7						✓	
		107		1.0-1.2							
		108		1.5-1.7							
		109		2.5-2.7							
		110		3.5-4.0							
		111	BH27	0.5-0.7						✓	
		112		1.0-1.2							
		113		1.5-1.7							
		114		1.8-2.0							
		115	MW10	0.5-0.7						✓	
		116		1.5-1.7							
		117		1.8-2.0							
		118	BH42	0.5-0.7	29/5/08					✓	
		119		1.0-1.2							

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

coffey **Chain of Custody**

Laboratory Quotation / Order No:

Job No: EL20395/1-1 | No: 4344 | Sheet: of

Dispatch to: (Address & Phone No.) SGS	Sampled by: Nick Cowan	Consigning Officer: [illegible]; Date Dispatched: [illegible]
Attention: ALEX	Project Manager (report results to): Benedict Smith	Courier Service:; Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	14/6		[signature]	4/6	
			[signature]		

Analysis Required

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	PAHs	TPHs	Metals – BTEX	Metals	[illegible]										Sample Condition on Receipt
	Soil	120	BH42 [illegible]	13/5/08															
	↓	121	[illegible]	↓															
		122	BH39 [illegible]						✓										
		123	[illegible]																
		124	[illegible]																
		125	[illegible]																
		126	[illegible]																
		127	[illegible]																
		128	BH43 [illegible]						✓										
		129	[illegible]																
		130	[illegible]																
		131	[illegible]																
		132	[illegible]																
		133	BH38 [illegible]						✓										
		134	[illegible]																
		135	[illegible]																
	↓	136	[illegible]	↓															

Special Laboratory Instructions:

Detection Limits: | Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: Sign on release. YELLOW: If dispatched to laboratory (lab to sign on receipt and fax back to Coffey). BLUE: To be returned with results.

coffey

Chain of Custody

Laboratory Quotation / Order No:

Job No: ELOG51514

No: 4345

Sheet of

Dispatch to: (Address & Phone No) SCS	Sampled by: Nick Corrigan	Consigning Officer: Luke Coic	Date Dispatched: 3/4/08
Attention: ALEX	Project Manager (report results to): Benedict Smith	Courier Service:	Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/4/08		[signature]	4/6	

Comments	Sample Matrix	Container Type and Preservation	Sample No.	Date Sampled	PAHs	TPHs	MAHs + BTEX	Metals	ASBESTOS	Sample Condition on Receipt
	Soil		137 BH4 0.2-0.7	30/4/08					✓	
			138 1.0-1.6							
			139 1.5-1.7							
			140 2.5-2.7							
			141 BH40 0.5-0.7						✓	
			142 1.0-1.2							
			143 1.5-1.9							
			144 BH46 0.5-0.7						✓	
			145 MW4 0.2-0.7						✓	
			146 1.0-1.2							
			147 1.5-1.7							
			148 2.5-2.7							
			149 BH36 0.2-0.7						✓	
			150 1.0-1.2							
			151 1.5-1.7							
			152 2.5-2.7							
			153 BH44 0.5-0.7						✓	

Special Laboratory Instructions:

Detection Limits: Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: Sign on receipt. YELLOW: If dispatched to interested Lab, Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.

coffey

Chain of Custody

No: 4346

Laboratory Quotation / Order No:

Job No: ELOO315AM

Sheet 10 of 10 (13)

Dispatch to: Address & Phone No:	SCS	Sampled by:	Nick Cowman	Consigning Officer:	Lane Cove
				Date Dispatched:	7/11 1000
Attention:	ALEX	Project Manager: Report results to:	Brendan Smith	Courier Service:	
				Consignment Note No:	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	7/6/8		[signature]	6/6	

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	PAHs	TPH	MAHs + BTEX	Metals	Asb. NK	Sample Condition on Receipt
	Soil	154	BH94 1.0-1.2	30/5/08						
	↓	155	1.5-1.7							
		156	MW18 0.5-0.7	31/5/08					✓	
		157	1.0-1.2	↓						
FOR SAMPLES		158	1.5-1.7 *							
COLLECTED 31/5/08		159	2.5-2.7 *							
SOME BORES MAY		160	3.5-3.7 *							
NOT BE PRESENT.		161	4.5-4.7 *							
PLEASE MAKE NOTE		162	BH17 0.3-0.5						✓	
OF SAMPLES NOT		163	2.5-2.7							
SUBMITTED.		164	1.0-1.2 *							
		165	BH51 0.5-0.7							
		166	MW17 0.5-0.7						✓	
		167	2.0-2.2 *							
		168	1.5-1.7 *							
		169	2.5-2.7 *							
	↓	170	BH52 0.2-0.3	↓					✓	

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: Sign on receipt. YELLOW: If dispatched to interstate lab, Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.

coffey

Chain of Custody

Laboratory Quotation / Order No:

Job No: ELD03/SAH

No: 4347

Sheet [illegible] of [illegible]

Dispatch to (Address & Phone No):	SGS	Sampled by:	Nick Cowman	Consigning Office:	Lane Cove
				Date Dispatched:	[illegible]
Attention:	ALEX	Project Manager / Report results to:	Brooke Smith	Courier Service:	
				Consignment Note No:	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	[illegible]		[signature]	[illegible]	

Comments	Sample Matrix	Container Type and Preservative	Sample No		Date Sampled	PAHs	TRHs	Metals + BTEX	Metals	Asbestos	Sample Condition on Receipt
	Soil	Ziplock bag 171	MW19	0.5-0.7	31/5/08					✓	
	↓	172		1.0-1.2	↓						
		173	MW10	0.5-0.7	31/5/08					✓	
		174		1.0-1.2							
[illegible]		175		1.5-1.7							
[illegible]		176		1.7-2.0	↓						
[illegible]		177	BH11	10-10.7							
[illegible]		178	BH5	1.5-1.7							
[illegible]		179	BH36	3.3-3.4	28/5						
[illegible]		180	MW10	1.0-1.2	28/5						
[illegible]		181	BH30	1.0-1.2	26/5						
		182	BH40	1.4-1.5	30/5						
		183	BH6	1.5-1.7	28/5 (Ziplock bag)						
		184	unlabelled bag (Black dirt)								
		185	unlabelled bag (Red/brown clay)								

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: Sign on receipt. YELLOW: If dispatched to laboratory, sign on receipt and fax back to Coffey. BLUE: To be returned with results

coffey

Chain of Custody

Laboratory Quotation / Order No: A36

T-19.3°C

Job No: EL0031521

No: 4337

Sheet 1 of 10

Dispatch to: (Address & Phone No.): SGS	Sampled by: Nick Cowman	Consigning Officer: L.O. OFFICE 9711 1000 Date Dispatched:
Attention: ALEX	Project Manager (report results to): Benedict Smith	Courier Service: Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/6/08		[signatures]	[illegible]	

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	PAHs	TPHs	MAHs + BTEX	Metals	Asbestos	Sample Condition on Receipt
	Soil		1 BH1 0.5-0.7	23/5/08					✓	
	↓		2 1.1-1.5	↓						
			3 1.5-1.7							
			4 2.5-2.7							
			5 3.3-3.5							
			6 4.1-4.5							
			7 [illegible]							
			8 2.5-2.7							
			9 [illegible]							
			10 BH3 0.3-0.5						✓	
			11 0.7-1.0							
			12 [illegible]							
			13 3.3-3.7							
			14 [illegible]							
			15 [illegible]							
			16 [illegible]							
	↓		17 BH12 0.3-0.5	↓					✓	

Received: 4/6
By: D
Time: 10:30
Sample intact: Yes
Ice/Cooler Pack: Yes
Comment: 61516

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: Sign on release. YELLOW: If dispatched to interstate Lab, Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.

coffey

Chain of Custody

Laboratory Quotation / Order No:

Job No: EL0085/SAM

No: 4338

Sheet 2 of 10

Dispatch to: Address & Phone No: SGS	Sampled by: Nick Cowman	Consigning Office: L.E. OFFICE	Date Dispatched:
Attention: ALEX	Project Manager (report results): Robert Smith	Courier Service:	Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[illegible signature]	4/6		[illegible signature]	4/6	

Comments	Sample Matrix	Container Type and Preservative	Sample No		Date Sampled	PAHs	TPH	MAHs + BTEX	Metals	Asbestos										Sample Condition on Receipt
	Soil	18	BH12	0.7-1.2	[illegible]															
		19		[illegible]																
		20		[illegible]																
		21		[illegible]																
		22		[illegible]																
		23		[illegible]																
		24		[illegible]																
		25	BH5	[illegible]						✓										
		26		[illegible]																
		27		[illegible]																
		28		[illegible]																
		29	BH[illegible]	[illegible]						✓										
		30		[illegible]																
		31		[illegible]																
		32		[illegible]																
		33	BH[illegible]	[illegible]						✓										
		34		[illegible]						✓										

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: Sign on release. YELLOW: If dispatched to external Lab, Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.

coffey

Chain of Custody

Laboratory Quotation / Order No:

Job No: ELGO1-CAIH

No: 4339

Sheet 3 of 10

Dispatch to: (Address & Phone No.) SCS	Sampled by: Nick Cowman	Consigning Officer: Lane Cove Date Dispatched: 9/1/1 1009
Attention: ALEX	Project Manager (report results to): Benedict Smith	Courier Service: Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	9/4/09		[signature] E. Sly 52	7/4	

Comments	Sample Matrix	Container Type and Preservation	Sample No.	Date Sampled	PAHs	TPHs	MAHs + BTEX	Metals	Asbestos											Sample Condition on Receipt
	Soil		35 BH8 1.5-1.7	25/8/08																
			36 2.5-2.7																	
			37 MW9 0.3-0.5	26/8/08					✓											
			38 BH24 0.7-0.9																	
			39 1.0-1.5																	
			40 BH25 0.5-0.7						✓											
			41 1.0-1.2																	
			42 1.5-1.7																	
			43 2.5-2.7																	
			44 3.5-3.7																	
			45 BH22 0.5-0.7						✓											
			46 1.5-1.7																	
			47 BH25 0.5-0.7						✓											
			48 1.5-1.7																	
			49 BH32 0.5-0.7						✓											
			50 1.5-1.7																	
			51 2.5-2.7																	

Special Laboratory Instructions:

Detection Limits: Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: Sign on release YELLOW: If dispatched to interstate lab, sign on receipt and fax back to Coffey BLUE: To be returned with results

coffey

Chain of Custody

No: 4340

Laboratory Quotation / Order No:

Job No: ELO0515AH

Sheet 4 of 10

Dispatch to: Address & Phone No: SGS	Sampled by: Nick Coulman	Consigning Officer: Lewis Cook Date Dispatched: 9/11 1952
Attention: ALEX	Project Manager / Report results to: Benedict Smith	Courier Service: Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Nick C	4/11		[signature] 52	4/11	

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	PAHs	TRHs	Metals + BTEX	Metals	Asbestos	Sample Condition on Receipt
		52	BH17 0.5-0.7						✓	
		53	1.0-1.2							
		54	1.9-2.0							
		55	BH23 0.5-0.7						✓	
		56	1.0-1.2							
		57	1.5-1.7							
		58	2.5-2.8							
		59	BH14 0.5-0.7						✓	
		60	1.0-1.2							
		61	1.5-1.7							
		62	BH15 0.5-0.7						✓	
		63	1.0-1.2							
		64	BH13 0.5-0.7						✓	
		65	1.0-1.2							
		66	1.5-1.7							
		67	2.5-2.7							
		68	3.5-4.0							

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: Sign on release. YELLOW: If dispatched to Laboratory, Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.

coffey

Chain of Custody

Laboratory Quotation / Order No:

Job No: EL0035/A1 [illegible]

No: 4341

Sheet: 5 of 10

Dispatch to: Address & Phone No: SGS	Sampled by: Nick C[illegible]	Consigning Officer: L[illegible] C[illegible] Date Dispatched:
Attention: ALEX	Project Manager (report results to): B[illegible] S[illegible]	Courier Service: Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	9/6/08		[signature]	4/6	

Comments	Sample Matrix	Container Type and Preservation	Sample No.	Date Sampled	PAHs	TPH	MAHs + BTEX	Metals	[illegible]	Sample Condition on Receipt
	Soil	69	BH50 5.4-5.5	23/5/08						
	↓	70	BH45 0.3-0.7	↑					✓	
		71	1.0-1.2							
		72	1.5-1.7							
		73	[illegible]							
		74	3.5-4.0							
		75	BH37 0.3-0.7						✓	
		76	1.0-1.7							
		77	[illegible]							
		78	[illegible]							
		79	3.5-4.0							
		80	MW15 0.3-0.7	23/5/08					✓	
		81	[illegible]							
		82	[illegible]							
		83	[illegible]							
		84	[illegible]							
	↓	85	[illegible]	↓						

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

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coffey

Chain of Custody

Laboratory Quotation / Order No: | Job No: EL0035[illegible] | No: 4342 | Sheet: 6 of 10

Dispatch to: Address & Phone No: SGS	Sampled by: Nick Cammit	Consigning Office: Lane Cove	Date Dispatched: [illegible]
Attention: ALEX	Project Manager (report results to): Benedict Smith	Courier Service:	Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	[illegible]		[signature]	7/6	

Comments	Sample Matrix	Container Type and Preservation	Sample No.		Date Sampled	PAHs	TRHs	Metals + BTEX	Metals	Asbestos	Sample Condition on Receipt
	Soil	* 86	MW15	5.2-5.5	27/5/08						
	↓	87	MW11	0.5-0.7	↓					✓	
		88		1.2-1.2							
		89		1.5-1.7							
		90		2.5-2.7							
		91		3.5-4.0							
		92	MW12	0.5-0.7						✓	
		93		1.0-1.2							
		94		1.5-1.7							
		95		1.5-2.7							
		96		3.8-3.3							
		97	MW16	0.5-0.7	28/5/08					✓	
		98		1.0-1.2	↓						
		* 99		1.5-1.7							
		100		2.5-2.7							
		101		3.5-3.7							
	↓	102	[illegible]	0.3-0.5	↓					✓	

Special Laboratory Instructions:

Detection Limits: | Turnaround Required:

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Chain of Custody

No: 4343

Laboratory Quotation / Order No:

Job No: E1[illegible]

Sheet 7 of 10

Dispatch to: Address & Phone No: SGS	Sampled by: Nick Cammarano	Consigning Office: Lane Cove Office Date Dispatched: 9/11 2008
Attention: ALEX	Project Manager (report results to): Benedict Smith	Courier Service: Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	9/9/08		[signature] 52	9/9	

Comments	Sample Matrix	Container Type and Preservation	Sample No.		Date Sampled	PAHs	TPHs	TPHs / BTEX	Metals	Asbestos	Sample Condition on Receipt
	Soil	103	BH36	1.0-1.2	28/8/08						
	↓	104		1.5-1.7	↓						
		105		2.5-2.7							
		106	MW14	0.5-0.7						✓	
		107		1.0-1.2							
		108		1.5-1.7							
		109		2.5-2.7							
		110		3.5-4.0							
		111	BH27	0.5-0.7						✓	
		112		1.0-1.2							
		113		1.5-1.7							
		114		1.8-2.0							
		115	MW10	0.5-0.7						✓	
		116		1.5-1.7							
		117		1.8-2.0	↓						
		118	BH42	0.5-0.7	27/8/08					✓	
	↓	119		1.0-1.2	↓						

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

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Chain of Custody

No: 4344

Laboratory Quotation / Order No:

Job No: EL20335/AH

Sheet: [illegible] of [illegible]

Dispatch to: (Address & Phone No.) SGS	Sampled by: Nic Coun[illegible]	Consigning Officer: [illegible]	Date Dispatched: [illegible]
Attention: ALEX	Project Manager / Report results to: Benedict S[illegible]	Courier Service:	Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/6		[signature]	4/6	

Comments	Sample Matrix	Container Type and Preservation	Sample No.	Date Sampled	PAHs	TPH	TPH + BTEX	Metals	[illegible]	Sample Condition on Receipt
	Soil	120	BH42 1.5-1.7	29/5/08						
	↓	121	2.5-2.7	↓						
		122	BH39 0.5-0.7						✓	
		123	[illegible]							
		124	[illegible]							
		125	[illegible]							
		126	[illegible]							
		127	[illegible]							
		128	[illegible] 0.5-0.7						✓	
		129	[illegible]							
		130	[illegible]							
		131	[illegible]							
		132	[illegible]							
		133	[illegible] 0.5-0.7						✓	
		134	[illegible]							
		135	[illegible]							
	↓	136	[illegible]	↓						

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

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Chain of Custody

Laboratory Quotation / Order No:

Job No: EL0035/11M

No: 4345

Sheet [illegible] of [illegible]

Dispatch to: (Address & Phone No): SCS	Sampled by: Nick Coleman	Consigning Officer: LANE COVE	Date Dispatched: 9/11 [illegible]
Attention: ALEX	Project Manager (report results to): BENEDICT SMITH	Courier Service:	Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/4/8		[signature]	4/6	

Comments	Sample Matrix	Container Type and Preservative	Sample No	Date Sampled	PAHs	TPHs	MAHs + BTEX	Metals	ASBESTOS	Sample Condition on Receipt
	Soil	137	BH4 0.5-0.7	30/1/08					✓	
		138	1.0-1.2							
		139	1.5-1.7							
		140	2.5-2.7							
		● 141	BH40 0.5-0.7						✓	
		● 142	1.0-1.2							
		● 143	1.5-1.6							
		144	BH6 0.5-0.7						✓	
		145	BH49 0.5-0.7						✓	
		146	1.0-1.2							
		147	1.5-1.7							
		148	2.5-2.7							
		149	BH26 0.5-0.7						✓	
		150	1.0-1.2							
		151	1.5-1.7							
		152	2.5-2.7							
		153	BH44 0.5-0.7						✓	

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

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Chain of Custody

Laboratory Quotation / Order No: ELQ03504H

Job No:

No: 4346

Sheet 10 of 10 (1)

Dispatch to (Address & Phone No.): SCS	Sampled by: Nick Cowan	Consigning Officer: Lance Cove Date Dispatched: 7/11/2008
Attention: ALEX	Project Manager (send results to): Benedict Smith	Courier Service: Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Nick Cowan	7/11/08			7/11	

Container	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required: PAHs	TPHs	MAHs + BTEX	Metals	Asbestos											Sample Condition on Receipt
	Soil		154 BH94 1.0-1.2	5/11/08																
			155 2.3-2.7																	
			156 MW11 0.1-0.7	5/11/08					✓											
			157 1.0-1.2																	
FOR SAMPLES			158 1.9-2.7 *																	
COLLECTED 5/11/08			159 2.1-2.4 *																	
SOME BHS MAY			160 2.3-2.7 *																	
NOT BE ANALYSED.			161 4.3-4.7 *																	
PLEASE INDICATE HOW			162 BH87 0.1-0.3						✓											
OF SAMPLES NOT			163 2.5-2.7																	
SUBMITTED.			164 1.0-1.2 *																	
			165 BH51 0.5-0.7																	
			166 MW17 0.5-0.7						✓											
			167 2.2-2.7 *																	
			168 1.5-1.7 *																	
			169 2.5-2.7 *																	
			170 BH58 0.2-0.3						✓											

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

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Chain of Custody

Laboratory Quotation / Order No:

Job No: ELOC8/5AM

No: 4347

Sheet: 103 of 103

Dispatch to: Address & Phone No: SGS	Sampled by: Nick Cowman	Consigning Officer: [illegible] Date Dispatched: 9/11/08
Attention: Alex	Project Manager (send results to): Bernice Smith	Courier Service: Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	9/11/08		A. [signature]	4/6	

Comments	Sample Matrix	Container Type and Preservative	Sample No	Date Sampled	PAHs	TPH	MAHs – BTEX	Metals	Asbestos	Sample Condition on Receipt
	Soil	1 x [illegible] bag	171 MW9 0.5-0.7	31/5/08					✓	
	↓		172 1.0-1.2	↓						
			173 MW10 0.5-0.7	31/5/08					✓	
			174 1.0-1.2							
[illegible]			175 1.5-1.7							
[illegible]			176 2.0-2.0	↓						
[illegible]			177 BH11 1.0-1.2							
[illegible]			178 BH5 1.5-1.7							
[illegible]			179 BH36 3.3-3.4	28/5						
[illegible]			180 MW10 1.0-1.2	28/5						
[illegible]			181 BH30 1.0-1.2	26/5						
			182 BH40 1.4-1.5	30/5						
			183 BH16 1.5-1.7	~~[illegible]~~ 30/5 (rock bag)						
			184 unlabelled bag (black dirt)							
			185 unlabelled bag (red/brown bag)							

Special Laboratory Instructions:

Detection Limits: Turnaround Required:

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Copies: WHITE: Sign on release. YELLOW: Dispatched to receiving Lab. Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.

AU.SampleReceipt.Sydney (Sydney)

From: Nick Cowman [Nick_Cowman@coffey.com]
Sent: Wednesday, 11 June 2008 11:19 AM
To: Benedict Smith
Cc: AU.SampleReceipt.Sydney (Sydney)
Subject: RE: EL00315AH (SGS 61516), sample receipt

Hi Benedict/Nick,
There has been a number of observations made pertaining to the above job. Namely samples missing (not received) and extra samples received not listed on original COC.
Please be advised the following:-

Missing samples include-
MW15 5.2-5.3 27/05/08 (Not required for analysis)
MW16 1.5-1.7 28/05/08 (Not required for analysis)
BH40 0.5-0.7 30/05/08 (REQUIRED for analysis)
BH40 1.0-1.2 30/05/08 (Not required for analysis)
BH40 1.3-1.4 30/05/08 (Not required for analysis)
MW18 1.5-1.7 31/05/08 (Not required for analysis)
MW18 2.5-2.7 31/05/08 (Not required for analysis)
MW18 3.5-3.7 31/05/08 (Not required for analysis)
MW18 4.3-4.7 31/05/08 (Not required for analysis) PLEASE IGNORE THESE MISSING SAMPLES.
BH47 1.0-1.2 31/05/08 (Not required for analysis)
MW17 0.8-0.9 31/05/08 (Not required for analysis)
MW17 1.5-1.7 31/05/08 (Not required for analysis)
MW17 2.5-2.7 31/05/08 (Not required for analysis)
MW19 1.0-1.2 31/05/08 (Not required for analysis)

Extra samples include (Not listed on original COC supplied)-
BH11 10-10.7
BH5 1.5-1.7
BH36 3.3-3.4 28/05/08
MW10 1.0-1.2 28/05/08
BH30 1.0-1.2 26/05/08 PLEASE DO NOT ANALYSE THESE SAMPLES. PLEASE HOLD.
BH40 1.4-1.5 30/05/08
BH16 1.5-1.7 23/05/08 (Red clay)
Unlabelled bag (Black dirt)
Unlabelled bag (Red/brown clay)

In regards to the above results for "**BH40 0.5-0.7 30/05/08 (REQUIRED for analysis)**" PLEASE IGNORE will not be available unless an alternate sample from the list of extra samples can be suggested to be this sample id. In comparison to the batch of "BH40..." samples it has been noted that the Unlabelled bag (Red/brown clay) has similar soil texture and colour with this batch of samples. I believe that this sample could be the missing BH40 0.5-0.7 30/05/08 (REQUIRED for analysis). If this could be confirmed then we can proceed by analysing this sample for asbestos. Otherwise this sample will not be tested. Please confirm which action to take? In meantime results for this sample id will not be available.
Angela.

Any other queries, do not hesitate to ask.

Thanks.

NICK COWMAN
Environmental Scientist
Coffey Environments Pty Ltd
8/12 Mars Road Lane Cove West NSW 2066 Australia
T (+61) (2) 9911 1046 F (+61) (2) 9911 1002

www.coffey.com.au

From: Benedict Smith
Sent: Wednesday, 11 June 2008 8:54 AM
To: Nick Cowman
Subject: FW: EL00315AH (SGS 61516), sample receipt

Can you shed any light on this?

BENEDICT SMITH
Environmental Scientist

Coffey Environments
8/12 Mars Road Lane Cove West NSW 2066 Australia
T (+61) (2) 9911 1829 F (+61) (2) 9911 1002
www.coffey.com.au/environments

From: AU.SampleReceipt.Sydney (Sydney) [mailto:AU.SampleReceipt.Sydney@sgs.com]
Sent: Tuesday, 10 June 2008 5:36 PM
To: Benedict Smith
Cc: Nick Cowman
Subject: FW: EL00315AH (SGS 61516), sample receipt

Hi Benedict/Nick,
There has been a number of observations made pertaining to the above job. Namely samples missing (not received) and extra samples received not listed on original COC.
Please be advised the following:-
Missing samples include-
MW15 5.2-5.3 27/05/08 (Not required for analysis)
MW16 1.5-1.7 28/05/08 (Not required for analysis)
BH40 0.5-0.7 30/05/08 (REQUIRED for analysis)
BH40 1.0-1.2 30/05/08 (Not required for analysis)
BH40 1.3-1.4 30/05/08 (Not required for analysis)
MW18 1.5-1.7 31/05/08 (Not required for analysis)
MW18 2.5-2.7 31/05/08 (Not required for analysis)
MW18 3.5-3.7 31/05/08 (Not required for analysis)
MW18 4.3-4.7 31/05/08 (Not required for analysis)
BH47 1.0-1.2 31/05/08 (Not required for analysis)
MW17 0.8-0.9 31/05/08 (Not required for analysis)
MW17 1.5-1.7 31/05/08 (Not required for analysis)
MW17 2.5-2.7 31/05/08 (Not required for analysis)
MW19 1.0-1.2 31/05/08 (Not required for analysis)

Extra samples include (Not listed on original COC supplied)-
BH11 10-10.7
BH5 1.5-1.7
BH35 3.3-3.4 28/05/08
MW10 1.0-1.2 28/05/08
BH30 1.0-1.2 26/05/08
BH40 1.4-1.5 30/05/08
BH16 1.5-1.7 23/05/08 (Red clay)
Unlabelled bag (Black dirt)
Unlabelled bag (Red/brown clay)

In regards to the above results for "BH40 0.5-0.7 30/05/08 (REQUIRED for analysis)" will not be available

unless an alternate sample from the list of extra samples can be suggested to be this sample id. In comparison to the batch of "BH40..." samples it has been noted that the Unlabelled bag (Red/brown clay) has similar soil texture and colour with this batch of samples. I believe that this sample could be the missing BH40 0.5-0.7 30/05/08 (REQUIRED for analysis). If this could be confirmed then we can proceed by analysing this sample for asbestos. Otherwise this sample will not be tested. Please confirm which action to take? In meantime results for this sample id will not be available.
Angela

From: AU.SampleReceipt.Sydney (Sydney)
Sent: Friday, 6 June 2008 1:08 PM
To: benedict_smith@coffey.com
Cc: Ibrahim, Edward (Sydney); Stenta, Alexandra (Sydney)
Subject: EL00315AH (SGS 61516), sample receipt

Kind Regards
Angela Mamalicos
SGS Environmental Services
Sample Administration Manager

SGS Australia Pty Ltd
Unit 16, 33 Maddox St
Alexandria, NSW, 2015
Phone: +61 (0)2 8594 0400
Fax: +61 (0)2 8594 0499
E-mail: au.samplereceipt.sydney@sgs.com
Web: www.au.sgs.com

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ENVIRONMENTAL LABORATORIES

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CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No: E037769
Client Name: Coffey Environments Pty Ltd
Client Reference: EL00315AH
Contact Name: Benedict Smith
Chain of Custody No: 4323
Sample Matrix: SOIL

Cover Page 1 of 4
plus Sample Results

Date Received: 23/05/2008
Date Reported: 02/06/2008

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	

David Burns
Quality Control (Report signatory)
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Simon Mills
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Foundation Member

Laboratory Report: E037769

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.

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Laboratory Report: E037769

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

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	1	0	0%	0	0	0%
1	Volatile TPH by P&T (vTPH)	1	0	0%	0	0	0%
2	Petroleum Hydrocarbons (TPH)	1	0	0%	0	0	0%
3	Polyaromatic Hydrocarbons (PAH)	1	0	0%	0	0	0%
4	Acid extractable metals (M7)	1	0	0%	0	0	0%
5	Acid extractable mercury	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

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ENVIRONMENTAL LABORATORIES

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

Foundation
Member

Laboratory Report: E037769

Cover Page 4 of 4

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.

This document is issued in accordance with NATA's accreditation requirements. © copyright 2000

LabMark PTY LTD ABN 27 079 798 397
* SYDNEY: Unit 1, 8 Leighton Place Asquith NSW 2077 * MELBOURNE: 116 Moray Street, South Melbourne VIC 3205
* Telephone: (02) 9476 6533 * Fax: (02) 9476 8219 * Telephone: (03) 9686 8344 * Fax: (03) 9686 7344

LabMark
ENVIRONMENTAL LABORATORIES

Laboratory Report No: E037769
Client Name: Coffey Environments Pty Ltd
Contact Name: Benedict Smith
Client Reference: EL00315AH

Date: 02/06/08
This report supercedes reports issued on: N/A

Final
Certificate
of Analysis

Laboratory Identification		**157075**	**lcs**	**mb**							
Sample Identification		DUP2a	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		20/5/08	--	--							
Laboratory Extraction (Preparation) Date		28/5/08	28/5/08	28/5/08							
Laboratory Analysis Date		30/5/08	28/5/08	28/5/08							
Method : E002.2											
BTEX by P&T	**EQL**										
Benzene	0.2	<0.2	92%	<0.2							
Toluene	0.5	<0.5	92%	<0.5							
Ethylbenzene	0.5	<0.5	88%	<0.5							
meta- and para-Xylene	1	<1	92%	<1							
ortho-Xylene	0.5	<0.5	91%	<0.5							
Total Xylene	--	--	--	--							
CDFB (Surr @ 10mg/kg)	--	*94%*	*93%*	*89%*							
Method : E003.2											
Volatile TPH by P&T (vTPH)	**EQL**										
C6 - C9 Fraction	10	<10	90%	<10							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.
E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

Laboratory Identification		**157075**	**lcs**	**mb**							
Sample Identification		DUP2a	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		20/5/08	--	--							
Laboratory Extraction (Preparation) Date		28/5/08	28/5/08	28/5/08							
Laboratory Analysis Date		29/5/08	28/5/08	28/5/08							
Method : E006.2											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10 - C14 Fraction	50	<50	99%	<50							
C15 - C28 Fraction	100	<100	--	<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		**157075**	**lcs**	**mb**							
Sample Identification		DUP2a	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		20/5/08	--	--							
Laboratory Extraction (Preparation) Date		28/5/08	28/5/08	28/5/08							
Laboratory Analysis Date		29/5/08	29/5/08	29/5/08							
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	0.5	<0.5	111%	<0.5							
Acenaphthylene	0.5	<0.5	101%	<0.5							
Acenaphthene	0.5	<0.5	105%	<0.5							
Fluorene	0.5	<0.5	107%	<0.5							
Phenanthrene	0.5	<0.5	116%	<0.5							
Anthracene	0.5	<0.5	115%	<0.5							
Fluoranthene	0.5	<0.5	118%	<0.5							
Pyrene	0.5	<0.5	115%	<0.5							
Benz(a)anthracene	0.5	<0.5	105%	<0.5							
Chrysene	0.5	<0.5	130%	<0.5							
Benzo(b)&(k)fluoranthene	1	<1	116%	<1							
Benzo(a) pyrene	0.5	<0.5	116%	<0.5							
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	109%	<0.5							
Dibenz(a,h)anthracene	0.5	<0.5	123%	<0.5							
Benzo(g,h,i)perylene	0.5	<0.5	128%	<0.5							
Sum of reported PAHs	--	--	--	--							
2-FBP (Surr @ 5mg/kg)	--	*103%*	*113%*	*119%*							
TP-d14 (Surr @ 5mg/kg)	--	*107%*	*106%*	*125%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MS.

Laboratory Identification		**157075**	**crm**	**lcs**	**mb**						
Sample Identification		DUP2a	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		20/5/08	--	--	--						
Laboratory Extraction (Preparation) Date		28/5/08	28/5/08	28/5/08	28/5/08						
Laboratory Analysis Date		29/5/08	28/5/08	29/5/08	29/5/08						
Method : E022.2											
Acid extractable metals (M7)	**EQL**										
Arsenic	1	6	109%	108%	<1						
Cadmium	0.1	<0.1	92%	92%	<0.1						
Chromium	1	5	102%	104%	<1						
Copper	2	10	107%	101%	<2						
Nickel	1	3	103%	101%	<1						
Lead	2	6	97%	100%	<2						
Zinc	5	36	93%	103%	<5						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

Laboratory Identification		**157075**	**crm**	**lcs**	**mb**						
Sample Identification		DUP2a	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		20/5/08	--	--	--						
Laboratory Extraction (Preparation) Date		28/5/08	28/5/08	28/5/08	28/5/08						
Laboratory Analysis Date		28/5/08	28/5/08	28/5/08	28/5/08						
Method : E026.2											
Acid extractable mercury	**EQL**										
Mercury	0.05	<0.05	89%	99%	<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		**157075**									
Sample Identification		DUP2a									
Depth (m)		--									
Sampling Date recorded on COC		20/5/08									
Laboratory Extraction (Preparation) Date		28/5/08									
Laboratory Analysis Date		29/5/08									
Method : E005.2											
Moisture	**EQL**										
Moisture	--	18									

Results expressed in % w/w unless otherwise specified

Comments:

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

LabMark
ENVIRONMENTAL LABORATORIES

Report Date : 26/05/2008
Report Time : 10:39:39AM

Sample **Receipt** Notice (SRN) for **E037769**

Quality, Service, Support

Client Details		Laboratory Reference Information	
Client Name:	Coffey Environments Pty Ltd	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8083 1600		
Client Fax:	02 8765 0762	**Laboratory Report:**	**E037769**
Contact Name:	Benedict Smith	**Quotation Number:**	- Not provided, standard prices apply
Contact Email:	benedict_smith@coffey.com	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	Level 1, 3 Rider Boulevard Rhodes NSW 2138	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	EL00315AH	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	- Not provided -	**Email:**	jakleen.galada@labmark.com.au
CoC Serial Number:	4323	**Reporting Contact:**	Jyothi Lal
Purchase Order:	- Not provided -	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL		

Date Sampled (earliest date):	20/05/2008	**NATA Accreditation:**	13542
Date Samples Received:	23/05/2008	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	26/05/2008	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	02/06/2008	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required:No

Invoice Number: 32035

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:

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

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

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 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:

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

LabMark
ENVIRONMENTAL LABORATORIES

Report Date : 26/05/2008
Report Time : 10:39:39AM

Sample **Receipt** Notice (SRN) for **E037769**

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

No.	Date	Depth	Client Sample ID	Requested Analysis: BTEX by P&T	Acid extractable mercury	Acid extractable metals (M7)	Moisture	Polyaromatic Hydrocarbons (PAH)	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)											
157075	20/05		DUP2a	●	●	●	●	●	●	●	●											
			Totals:	1	1	1	1	1	1	1	1											

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

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Additional information on www.labmark.com.au

LabMark
ENVIRONMENTAL LABORATORIES

Report Date : 26/05/2008
Report Time : 10:39:39AM

Sample **Receipt** Notice (SRN) for **E037769**

Quality, Service, Support

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																		
157075	20/05		DUP2a	●																		
			Totals:	1																		

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

coffey

Chain of Custody

Job# E037769. EL00315AH

Laboratory Quotation / Order No: Job No:

No: 4323

Sheet 2 of 3

Dispatch to: (Address & Phone No.) ALS	Sampled by: NICK COWMAN	Consigning Officer: L.C OFFICE Date Dispatched: 9111-1000
Attention: ASHWINI	Project Manager: (report results to) BENEDICT SMITH	Courier Service: Consignment Note No:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
BS	23/5			23-5-18	12:40
			Sdny ALS Sydney	22-5	2:25PM
Frank - ALS	23/5/18	1200			

Comments	Sample Matrix	Container Type and Preservative		Sample No.	Date Sampled	Analyses Required: PAHs	TPHs	MAHs + BTEX	Metals	Soil											Sample Condition on Receipt
	Soil		18	DUP 2	20/5/18	✓			✓	✓											
PLEASE SEND acknowledge by selin			19	DUP 2a		✓			✓	✓											
DUP 2a TO Tabmark			20	BH7 0.5-0.7		✓			✓	✓											
			21	1.0-1.2					✓	✓											
			22	1.5-1.7																	
			23	2.5-2.7		✓			✓	✓											
			24	3.5-3.7																	
			25	4.0-4.2					✓	✓											
			26	4.9-5.0																	
			27	6.5-7.0		✓			✓	✓											
			28	8.8-9.0																	
			29	BH10* 0.5-0.7					✓	✓											
			30	1.0-1.2		✓			✓	✓											
			31	1.7-1.9																	
			32	2.5-2.7																	
			33	3.5-3.7																	
	↓		34	4.5-4.7	↓																

Special Laboratory Instructions:

Detection Limits: Turnaround Required: Standard

JOB NUMBER **MUST** BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: **WHITE:** Sign on release. **YELLOW:** If dispatched to interstate Lab, Lab to sign on receipt and fax back to Coffey. **BLUE:** To be returned with results.

LabMark
ENVIRONMENTAL LABORATORIES

Report Date : 26/05/2008
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Sample **Receipt** Notice (SRN) for **E037769**

Quality, Service, Support

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Client Phone:	02 8083 1600		
Client Fax:	02 8765 0762	**Laboratory Report:**	**E037769**
Contact Name:	Benedict Smith	**Quotation Number:**	- Not provided, standard prices apply
Contact Email:	benedict_smith@coffey.com	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	Level 1, 3 Rider Boulevard Rhodes NSW 2138	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	EL00315AH	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	- Not provided -	**Email:**	jakleen.galada@labmark.com.au
CoC Serial Number:	4323	**Reporting Contact:**	Jyothi Lal
Purchase Order:	- Not provided -	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL		

Date Sampled (earliest date):	20/05/2008	**NATA Accreditation:**	13542
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		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required:No

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Analysis comments:

Subcontracted Analyses:

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Additional information on www.labmark.com.au

LabMark
ENVIRONMENTAL LABORATORIES

Report Date : 26/05/2008
Report Time : 10:39:39AM

Sample **Receipt** Notice (SRN) for **E037769**

Quality, Service, Support

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157075	20/05		DUP2a	●	●	●	●	●	●	●	●											
			Totals:	1	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 Labmark to analyse your project samples.
Additional information on www.labmark.com.au

LabMark
ENVIRONMENTAL LABORATORIES

Report Date : 26/05/2008
Report Time : 10:39:39AM

Sample **Receipt** Notice (SRN) for **E037769**

Quality, Service, Support

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																		
157075	20/05		DUP2a	●																		
			Totals:	1																		

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

coffey

Chain of Custody

Job# E037769. EL00315AH

Laboratory Quotation / Order No: Job No:

No: 4323

Sheet 2 of 3

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Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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			Sdny ALS Sydney	22-5	2:25PM
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Comments	Sample Matrix	Container Type and Preservative		Sample No.	Date Sampled	Analyses Required: PAHs	TPHs	MAHs + BTEX	Metals	Soil											Sample Condition on Receipt
	Soil		18	DUP 2	20/5/18	✓			✓	✓											
PLEASE SEND acknowledge by selin			19	DUP 2a		✓			✓	✓											
DUP 2a TO Tabmark			20	BH7 0.5-0.7		✓			✓	✓											
			21	1.0-1.2					✓	✓											
			22	1.5-1.7																	
			23	2.5-2.7		✓			✓	✓											
			24	3.5-3.7																	
			25	4.0-4.2					✓	✓											
			26	4.9-5.0																	
			27	6.5-7.0		✓			✓	✓											
			28	8.8-9.0																	
			29	BH10* 0.5-0.7					✓	✓											
			30	1.0-1.2		✓			✓	✓											
			31	1.7-1.9																	
			32	2.5-2.7																	
			33	3.5-3.7																	
	↓		34	4.5-4.7	↓																

Special Laboratory Instructions:

Detection Limits: Turnaround Required: Standard

JOB NUMBER **MUST** BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: **WHITE:** Sign on release. **YELLOW:** If dispatched to interstate Lab, Lab to sign on receipt and fax back to Coffey. **BLUE:** To be returned with results.

LabMark
ENVIRONMENTAL LABORATORIES

No. 13542.

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.

AQIS
AUSTRALIAN QUARANTINE AND INSPECTION SERVICE

SYDNEY License No. N0356.

Quarantine Approved premises criteria 5.1 for quarantine containment level 1 (QCI) facilities. Class five criteria cover premises utilised for research, analysis,and/or testing of biological material, soil, animal, plant and human products.

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No:	E037774
Client Name:	Coffey Environments Pty Ltd
Client Reference:	EL00315AH
Contact Name:	Benedict Smith
Chain of Custody No:	4326
Sample Matrix:	SOIL

Cover Page 1 of 4
plus Sample Results

Date Received: 23/05/2008
Date Reported: 02/06/2008

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, organotins 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

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

David Burns
Quality Control (Report signatory)
david.burns@labmark.com.au

Geoff Weir
Authorising Chemist (NATA signatory)
geoff.weir@labmark.com.au

Simon Mills
Authorising Chemist (NATA signatory)
simon.mills@labmark.com.au

This document is issued in accordance with NATA's accreditation requirements.

Foundation Member

Laboratory Report: E037774

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 method and sample matrix type reported, unless noted below.

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.

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Laboratory Report: E037774

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

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	1	0	0%	0	0	0%
1	Volatile TPH by P&T (vTPH)	1	0	0%	0	0	0%
2	Petroleum Hydrocarbons (TPH)	1	0	0%	0	0	0%
3	Polyaromatic Hydrocarbons (PAH)	1	0	0%	0	0	0%
4	Acid extractable metals (M7)	1	0	0%	0	0	0%
5	Acid extractable mercury	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, Corporate Site No. 13535, unless indicated below.

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LabMark
ENVIRONMENTAL LABORATORIES

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

Foundation
Member

Laboratory Report: E037774

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.

This document is issued in accordance with NATA's accreditation requirements.