



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)





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 Rec	cord		
Date / Time of Calibration	: 20/5/2008	Calibration gas: 100 ppm ISOBUTYLEN	IE
Zero Calibration (0.0	oppm) Actual Reading 0.00 ppm	Span Calibration (100 ppm)	ctual Reading 99.9 ppm
Calibrated by: NC			

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)





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		

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





client:	Valad Properties Group	office:	LANE COV	Έ
principal:		date:	19/5/08 - 3/6	3/08

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		





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)





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		

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





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 Rec	ord		
Date / Time of Calibration	: 23/5/2008	Calibration gas: 100 ppm ISOBUTYLEN	IE
Zero Calibration (0.0	ppm) Actual Reading 0.00 ppm	Span Calibration (100 ppm) A	ctual Reading 99.8 ppm
Calibrated by: NC			

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:-

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





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		

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





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)





slient: Valad Properties Group office: LA	ane cove
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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		





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		

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





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 Calibration gas: 100 ppm ISOBUTYLENE

Zero Calibration (0.0ppm) Actual Reading 0.00 ppm Span Calibration (100 ppm) Actual Reading 100.2 ppm

Calibrated by: NC

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)





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)





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)





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 Red	cord		
Date / Time of Calibration: 295/2008		Calibration gas: 100 ppm ISOBUTYLEN	NE
Zero Calibration (0.0	oppm) Actual Reading 0.00 ppm	Span Calibration (100 ppm)	ctual Reading 99.7 ppm
Calibrated by: NC			

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		

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





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)





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 Rec	ord			
Date / Time of Calibration	: 30/5/2008	Calibration gas: 100 ppm ISOBUTYLENE		
Zero Calibration (0.0	ppm) Actual Reading 0.00 ppm	Span Calibration (100 ppm)	ctual Reading 100.1 ppm	
Calibrated by: NC				

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)





LANE COVE client: Valad Properties Group office:

19/5/08 - 3/6/08 principal: date:

ESA, 630-276 Princes Hwy NC project: by:

Tempe, NSW BS location: checked by:

MINIRAE 2000 (SN: 110-009460) 10.6eV PID serial number: lamp voltage:

PID Calibration Record

Date / Time of Calibration: 31/5/2008

Zero Calibration (0.0ppm) Actual Reading 0.00 ppm Span Calibration (100 ppm)

Actual Reading 100.00 ppm

Calibration gas: 100 ppm ISOBUTYLENE

Calibrated by: NC

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)





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 Rec	cord		
Date / Time of Calibration	: 31/5/2008	Calibration gas: 100 ppm ISOBUTYLEN	E
Zero Calibration (0.0	ppm) Actual Reading 0.00 ppm	Span Calibration (100 ppm)	ctual Reading 100.00 ppm
Calibrated by: NC			

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)





Zero Calibration (0.0ppm) Actual Reading 0.00 ppm

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 R	ecord		
Date / Time of Calibrati	on: 3/6/2008	Calibration gas: 100 ppm ISOBUTYLE	NF

Span Calibration (100 ppm) Actual Reading 99.3 ppm

Calibrated by: NC

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



	PROJECT N	_{Аме:} Vala	d Property T	empe						PROJEC	T NUMBER	e: ENVIL	_COV003	315AH
			nan Fuser/Ni	ck Cowa	ın						DATE	5/6/08	<u> </u>	
PROJE	ECT MANAGI	er: Bene	edict Smith											
WELL ID			METER ID:					TOTAL WEL	L DEPTH:	15.000 m		SC	REEN INTE	ERVAL:
EQUIPME	ENT USED:	BAILER	WATERRA	Other:_				WELL D	IAMETER:	50 mm			WELL STIC	CK-UP:
WELL GAUGII	NG AND PURG	E VOLUME CAL	_CULATIONS											
TOTAL WE	ELL DEPTH (-) WATER LE\	VEL (=) WATER (COLUMN			_	the water					LITE	RES PER 1 WELL VOLUME
<u>15.000 m</u>	(-) <u>10.335 m</u>	_ (=) <u>4.665</u> m				VC		the Well V removed f						<u>9.330</u> _L
TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	OXY	OLVED 'GEN g/I)	ELECT CONDU (mS or		p (pH t	H units)	REI POTE (m			RATURE 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
STABI	ILISATION CRI	TFRIA												
	s within follow		± 0.05	± 1	0%	± 10) mv	± 1	0%	± 1	0%	± 0	.1°C	
	ATE COLLECT			JPLICATE ID: IFILTERED S		ST NOT BE P	– UT INTO A P		TE COLLECT		Y N	TRI	PLICATE ID:	
		-		0.		- · ·								



	PROJECT N	_{АМЕ:} Vala	d Property T	empe						PROJEC	T NUMBER	e: ENVIL	_COV003	315AH
			nan Fuser/Ni	ck Cowa	ın						DATE	5/6/08		
PROJE	ECT MANAGI	er: Bene	edict Smith											
WELL ID			METER ID: \(\)					TOTAL WEL	L DEPTH:	10.000		SC	REEN INTE	ERVAL:
EQUIPME	NT USED:	BAILER	WATERRA	Other:_				WELL D	IAMETER:	50 mm			WELL STIC	CK-UP:
TOTAL WE	ELL DEPTH (e VOLUME CAL -) WATER LE\ (=) <u>6.057</u> m	CULATIONS VEL (=) WATER (COLUMN		volu	refer to	the water the Well V emoved fro	olume Calc	culation For	m for the c		LITR	RES PER 1 WELL VOLUME
TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	OXY	OLVED 'GEN g/I)	ELECT CONDU (mS or		p (pH t	H units)		OOX NTIAL IV)		RATURE 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
	ILISATION CRI within follow		± 0.05	± 1	0%	± 10) mv	± 1	0%	± 1	0%	± 0	.1°C	
	ATE COLLECT			JPLICATE ID: IFILTERED SA		ST NOT BE P	UT INTO A P		CONTAINER		Y N	TRI	PLICATE ID:	



	PROJECT N	AME: Vala	d Property T	empe						PROJEC	T NUMBER	: ENVIL	_COV003	315AH
FIE	ELD PERSON	NEL: Nath	an Fuser/Nic	ck Cowa	n						DATE	: 5/6/08		
PROJE	ECT MANAGE	ER: Bene	edict Smith											
WELL ID	D: MW6		METER ID: \(\)	WQM2				ΓΟΤΑL WEL	L DEPTH:	15.000 m		SC	REEN INTE	RVAL:
EQUIPME	NT USED: 1	BAILER	WATERRA	Other:_			_	WELL D	IAMETER:	50 mm			WELL STIC	CK-UP:
		E VOLUME CAL		201 LINANI			l latina			11	41 1-64		LITE	DEC DED 4 WELL VOLUME
	(-) <u>7.117 m</u>		/EL (=) WATER C	OLUMIN		volu	refer to		olume Calc	culation For	n the left, m for the c it on the ri		LIIK	RES PER 1 WELL VOLUME 15.766_L
TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSO OXY (m	GEN	ELECT CONDUC (mS or	CTIVITY	p) (pH u		POTE	DOX NTIAL NV)		RATURE C)	COMMENTS (ODOUR/ COLOUR/ SEDIMENTS/ PSH COLLECTED?)
READING CHANGE* READING CHANGE* READING CHANGE* READING CHANGE* READING CHANGE* 10.00 PM AND ADD TALES OF THE PROPERTY OF THE														
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 $\pm 10\%$ ± 10 mv $\pm 10\%$ $\pm 10\%$ $\pm 0.1^{\circ}$ C													
	ATE COLLECTI			PLICATE ID: IFILTERED SA			PLICATE CC		Y CONTAINER	N (IE. 'METALS	RIP	TE ID:		
	0				223 14100			02			JO LL//			



	-													
	PROJECT N.	AME: Vala	d Property T	empe						PROJEC	T NUMBER	e: ENVIL	.COV003	315AH
FI	ELD PERSON	INEL: Nath	nan Fuser/Ni	ck Cowa	ın						DATE	5/6/08		
PROJI	ECT MANAGI	er: Bene	edict Smith											
WELL ID): <u>MW</u> 7		METER ID:	NQM2				TOTAL WEI	L DEPTH:	8.500		SC	REEN INTE	RVAL:
EQUIPME	NT USED:	BAILER	WATERRA	Other:_				WELL D	IAMETER:	50 mm			WELL STIC	CK-UP:
WELL GAUGI	NG AND PURG	E VOLUME CAL	CULATIONS											
TOTAL WE	ELL DEPTH (-) WATER LE\	VEL (=) WATER (COLUMN			_	the water				correct	LITR	RES PER 1 WELL VOLUME
<u>8.500 m</u> (-) <u>4.858 m</u> (=) <u>3.642</u> m				volui		emoved from						<u>7.284</u> _L
TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSO OXY (m			RICAL CTIVITY µS/cm)	р (рН с	H units)		DOX NTIAL IV)	TEMPEI (°	RATURE 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
STAR	ILISATION CRI	ITEDIΔ												
(3 Readings within following Ranges) ± 0.05 $\pm 10\%$ ± 10 mv $\pm 10\%$ $\pm 10\%$ $\pm 0.1^{\circ}$ C														
DUPLICA	ATE COLLECT	ED: Y	N DUF	PLICATE ID:	DUP01	TRI	PLICATE CC	DLLECTED:	Y	N	T	D: <u>DU</u> F	<u>PO1A</u>	
WERE MET	ALS FIELD FIL	TERED? Y	N UN	IFILTERED S	AMPLES MUS	ST NOT BE P	UT INTO A P	RESERVED (CONTAINER ((IE. 'METALS	BOTTLE))			



1	PROJECT N	аме: Vala	d Property T	empe						PROJEC	T NUMBER	e ENVIL	_COV003	315AH
FIE	LD PERSON	INEL: Nath	an Fuser/Nic	ck Cowa	n						DATE	5/6/08		
PROJE	CT MANAGE	er: Bene	edict Smith											
WELL ID			METER ID: \(\frac{1}{2}\)					TOTAL WEI	L DEPTH:	12.600 m		SC	REEN INTE	ERVAL:
EQUIPME	NT USED: [BAILER	WATERRA	Other:_				WELL D	IAMETER:	50 mm		<u></u> -	WELL STIC	CK-UP:
WELL GAUGIN	NG AND PURG	E VOLUME CAL	CULATIONS											
TOTAL WE	LL DEPTH (-	-) WATER LEV	/EL (=) WATER (COLUMN				the water				correct	LITE	RES PER 1 WELL VOLUME
<u>12.600 m</u>	(-) <u>7.482 m</u>	(=) <u>5.118 m</u>				volu		removed fro						<u>10.236_L</u>
TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSO OXY (m	GEN	ELECT CONDU (mS or	CTIVITY	р (рН с	H units)	POTE	OOX NTIAL NV)		RATURE 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
				1										
	STABILISATION CRITERIA (3 Readings within following Ranges) ± 0.05 ± 10% ± 10 mv ± 10% ± 10% ± 0.1°C													
	TE COLLECTI	_ [ICATE ID: FILTERED SA	MPLES MUS	T NOT BE PU	T INTO A PR		ATE COLLEC		Y N BOTTLE))		TRIPLICA ⁻	TE ID:



	-													
	PROJECT N	AME: Vala	d Property T	empe						PROJEC	T NUMBER	e: ENVIL	_COV003	315AH
FIE	ELD PERSON	INEL: Nath	an Fuser/Ni	ck Cowa	ın						DATE	5/6/08		
PROJE	ECT MANAG	er: Bene	edict Smith											
WELL ID	D: MW9		METER ID:	WQM2				TOTAL WEI	_L DEPTH:	11.600 m		SC	REEN INTE	RVAL:
EQUIPME	ENT USED:	BAILER	WATERRA	Other:_				WELL D	NAMETER:	50 mm			WELL STIC	CK-UP:
WELL GAUGII	NG AND PURG	E VOLUME CAL	CULATIONS											
TOTAL WE	ELL DEPTH (-) WATER LE\	/EL (=) WATER (COLUMN			_			Iculation o		correct	LITE	RES PER 1 WELL VOLUME
<u>11.600 m</u>	(-) <u>3.627 m</u>	(=) <u>7.973 m</u>				volu				I and enter				<u>15.946_L</u>
TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSO OXY (m			RICAL CTIVITY µS/cm)		H units)	REI POTE (m			RATURE 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 ± 0.05 $\pm 10\%$ ± 10 mv $\pm 10\%$ $\pm 10\%$ $\pm 0.1^{\circ}$ C $\pm 0.1^{\circ}$ C														
	ATE COLLECT	_ '		CATE ID: FILTERED SA	MPLES MUS	T NOT BE PU		TE COLLECT		Y N	BOTTLE))	PLICATE	E ID:	



	PROJECT N	аме: Vala	d Property T	empe						PROJEC	T NUMBER	e ENVIL	.COV003	315AH
FIE	ELD PERSON	INEL: Nath	an Fuser/Nic	ck Cowa	n						DATE	5/6/08		
PROJE	ECT MANAGI	er: Bene	edict Smith											
	D: <u>MW10</u>		METER ID: \(\frac{1}{2}\)					TOTAL WEI	L DEPTH:	7.000 m		SC	REEN INTE	RVAL:
EQUIPME	ENT USED:	BAILER	WATERRA	Other:_				WELL D	IAMETER:	50 mm			WELL STIC	CK-UP:
		E VOLUME CAL												
	-) <u>2.358 m</u> (/EL (=) WATER C	COLUMN		volui	refer to	the water the Well V moved fror	olume Calc	culation For	m for the c		LIIR	9.284_L
TIME OF DAY	CYCLE/ PUMP RATE (ml/min)	VOLUME (L)	DEPTH TO WATER (m)	DISSO OXY (m	GEN	ELECT CONDU (mS or		р (рН с	H units)		OOX NTIAL IV)	TEMPEF	RATURE 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													
	ATE COLLECT	_ [CATE ID: ILTERED SA	MPLES MUS	T NOT BE PU		TE COLLECT		Y N	BOTTLE))	PLICATE	ID:	



PROJECT NAME: Valad Property Tempe PROJECT NUMBER: ENVILCOV00315AH														
	FIELD PERSONNEL: Nathan Fuser/Nick Cowan PROJECT MANAGER: Benedict Smith DATE: 5/6/08													
PROJE	PROJECT MANAGER: Benedict Smith													
): <u>MW11</u>		METER ID: \(\)					TOTAL WEL	L DEPTH:	10.000 m		SC	REEN INTE	ERVAL:
EQUIPME	EQUIPMENT USED: BAILER WATERRA Other: WELL DIAMETER: 50 mm WELL STICK-UP:													
WELL GAUGII	/ELL GAUGING AND PURGE VOLUME CALCULATIONS													
TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct														
=10.000 m	refer to the Well Volume Calculation Form for the correct =10.000 m (-) 3.722 m (=) 6.278 m volume to be removed from the well and enter it on the right 12.556_L													
TIME OF DAY	DAY PUMP RATE (ml/min) VOLUME (L) WATER (m) (mg/l) (mS or \mu S/cm) (pH units) (pH units) (°C) SEDIMENTS/ PSH COLLECTED?)													
	(my/li) (ms or \music s) (my/l) (ms or \music s) (mv) (mv) 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	:08 pm NA 9 - 2.0 1970 5.05 371 18.20 No odour													No odour
3:11 pm	NA	9	-	1.4		2015		5.11		375		18.18		No odour
	ILISATION CRI s within follow		± 0.05	± 1	0%	± 10) mv	± 1	0%	± 1	0%	± 0.	.1°C	
DUPLICATE COLLECTED: Y DUPLICATE ID: TRIPLICATE COLLECTED: Y N DIPLICATE ID: WERE METALS FIELD FILTERED? Y N DIPLICATE ID: WERE METALS FIELD FILTERED? Y N DIPLICATE ID:														
	WERE METALS FIELD FILTERED? YN (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))													



	_													
	PROJECT NAME: Valad Property Tempe PROJECT NUMBER: ENVILCOV00315AH													
FI	ELD PERSON	INEL: Nath	an Fuser/Nic	ck Cowa	ın						DATE	6/6/08		
PROJI	PROJECT MANAGER: Benedict Smith													
WELL ID	D: MW12		METER ID: \	NQM2			-	TOTAL WEI	_L DEPTH:	8.700 m		SC	REEN INTE	RVAL:
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:														
	VELL GAUGING AND PURGE VOLUME CALCULATIONS WELL DIAMETER: 50 mm WELL STICK-UP:													
TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN Using the water column calculation on the left, LITRES PER 1 WELL VOLUME														
refer to the Well Volume Calculation Form for the correct =8.700 m (-) 1.701 m (=) 6.999 m volume to be removed from the well and enter it on the right 13.998_L														
TIME OF DAY PUMP RATE (ml/min) READING CHANGE* READING CHANGE*														
	(mg/l) (mS or µS/Cm) (mV) (mV) 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
CTAD	IL ICATION CD	ITEDIA.												
	ILISATION CRI s within follow		± 0.05	± 1	0%	± 10) mv	± 1	0%	± 1	0%	± O	.1°C	
DUPLICATE COLLECTED: Y DUPLICATE ID: TRIPLICATE COLLECTED: Y N (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))														
		-	``						`		**			



	_													
	PROJECT NAME: Valad Property Tempe PROJECT NUMBER: ENVILCOV00315AH													
FIE	ELD PERSON	INEL: Nath	nan Fuser/Ni	ck Cowa	ın						DATE	6/6/08		
PROJE	PROJECT MANAGER: Benedict Smith													
WELL ID	D: MW13		METER ID:	WQM2			-	TOTAL WEI	_L DEPTH:	9.000 m		SC	REEN INTE	RVAL:
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:														
	VELL GAUGING AND PURGE VOLUME CALCULATIONS													
TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN Using the water column calculation on the left, LITRES PER 1 WELL VOLUME														
refer to the Well Volume Calculation Form for the correct =9.000 m (-) 1.432 m (=) 7.568 m volume to be removed from the well and enter it on the right DISSOLVED ELECTRICAL REDOX														
TIME OF DAY CYCLE/ PUMP RATE (ml/min) VOLUME (L) DEPTH TO WATER (m) DISSOLVED OXYGEN (mg/l) CHANGE* READING CHANGE*														
	(mg/l) (mS or \mu S/cm) (mV) (TANGE* 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/shee													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
STAB	ILISATION CRI	TERIA												
	s within follow		± 0.05	± 1	0%	± 10) mv	± 1	0%	± 1	0%	± 0	.1°C	
DUPLICATE COLLECTED: Y DUPLICATE ID: TRIPLICATE COLLECTED: Y N DICATE ID:														
WERE MET	WERE METALS FIELD FILTERED? Y N (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))													



	PROJECT NAME: Valad Property Tempe PROJECT NUMBER: ENVILCOV00315AH													
FIE	FIELD PERSONNEL: Nathan Fuser/Nick Cowan DATE: 6/6/08													
PROJE	PROJECT MANAGER: Benedict Smith													
	WELL ID: MW14 METER ID: WQM2 TOTAL WELL DEPTH: 10.500 m SCREEN INTERVAL:													
EQUIPME	EQUIPMENT USED: BAILER WATERRA Other: WELL DIAMETER: 50 mm WELL STICK-UP:													
WELL GAUGII	VELL GAUGING AND PURGE VOLUME CALCULATIONS													
TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct														
=10.500 m	=10.500 m (-) 2.210 m (=) 8.290 m volume to be removed from the well and enter it on the right 16.582_L													
TIME OF DAY PUMP RATE (ml/min) VOLUME (L) DEPTH TO WATER (m) (mg/l) ELECTRICAL CONDUCTIVITY (mS or µS/cm) (mg/l) (mS or µS/cm) POTENTIAL (mV) TEMPERATURE (°C) SEDIMENTS/ PSH COLLECTED?)														
	READING CHANGE* READING CHANGE* READING CHANGE* READING CHANGE* READING CHANGE* READING CHANGE* READING CHANGE* READING CHANGE* READING CHANGE* READING CHANGE* 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												No odour		
	ILISATION CRI s within follow		± 0.05	± 1	0%	± 10) mv	± 1	0%	± 1	0%	± 0	.1°C	
	DUPLICATE COLLECTED: Y DUPLICATE ID: TRIPLICATE COLLECTED: Y N DUPLICATE ID: WERE METALS FIELD FILTERED? Y N (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))													



	PROJECT NAME: Valad Property Tempe PROJECT NUMBER: ENVILCOV00315AH													
FIE	FIELD PERSONNEL: Nathan Fuser/Nick Cowan DATE: 6/6/08													
PROJI	PROJECT MANAGER: Benedict Smith													
	WELL ID: MW15 METER ID: WQM2 TOTAL WELL DEPTH: 14.000 m SCREEN INTERVAL:													
EQUIPME	EQUIPMENT USED: BAILER WATERRA Other: WELL DIAMETER: 50 mm WELL STICK-UP:													
	VELL GAUGING AND PURGE VOLUME CALCULATIONS													
TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN Using the water column calculation on the left, refer to the Well Volume Calculation Form for the correct														
=14.000 m	=14.000 m (-) 3.599 m (=) 10.401 m volume to be removed from the well and enter it on the right 20.802_L													
TIME OF DAY PUMP RATE (ml/min) CYCLE/ PUMP RATE (ml/min) CYCLE/ PUMP RATE (ml/min) DISSOLVED OXYGEN CONDUCTIVITY (ms or \mu s/cm) CONDUCTIVITY (ms or \mu s/cm) CONDUCTIVITY (ms or \mu s/cm) 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	8 2211 4.86 432 18.03 No od									
11:09 am NA 20 - 2.6 2314 4.74 440 17.78 No odour												No odour		
	ILISATION CRI s within follow		± 0.05	± 1	0%	± 10) mv	± 1	0%	± 1	0%	± 0	.1°C	
	DUPLICATE COLLECTED: Y N DUPLICATE ID: TRIPLICATE COLLECTED: Y N DUPLICATE ID: WERE METALS FIELD FILTERED? Y N (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))													



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	PROJECT NAME: Valad Property Tempe PROJECT NUMBER: ENVILCOV00315AH													
FII	ELD PERSON	INEL: Nath	nan Fuser/Nic	ck Cowa	ın						DATE	6/6/08		
PROJI	PROJECT MANAGER: Benedict Smith													
WELL I	D: MW16		METER ID: \	WQM2			-	TOTAL WEI	L DEPTH:	15.000 m		SC	REEN INTE	RVAL:
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:														
	VELL GAUGING AND PURGE VOLUME CALCULATIONS WELL DIAMETER. SO THIS WELL STICK-OF.													
TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN Using the water column calculation on the left, LITRES PER 1 WELL VOLUME														
refer to the Well Volume Calculation Form for the correct =15.000 m (-) 3.556 m (=) 11.444 m volume to be removed from the well and enter it on the right 22.888_L														
TIME OF DAY	DAY PUMP RATE (ml/min) VOLUME (L) WATER (m) OATGEN CONDUCTIVITY (pH units) (PH units) (°C) SEDIMENTS/ PSH COLLECTED?)													
	READING CHANGE* 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
STAR	ILISATION CRI	ITEDIΔ												
	s within follow		± 0.05	± 1	0%	± 10) mv	± 1	0%	± 1	0%	± 0	.1°C	
DUPLICATE COLLECTED: Y DUPLICATE ID: TRIPLICATE COLLECTED: Y N DICATE ID:														
WERE MET	WERE METALS FIELD FILTERED? V (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))													



	PROJECT NAME: Valad Property Tempe PROJECT NUMBER: ENVILCOV00315AH													
FIE	ELD PERSON	INEL: Nath	nan Fuser/Ni	ck Cowa	n						DATE	5/6/08		
PROJE	ECT MANAG	er: Bene	edict Smith											
WELL ID): MW19		METER ID: \	NQM2				TOTAL WEI	_L DEPTH:	13.000 m	l	SC	REEN INTE	ERVAL:
EQUIPMENT USED: BAILER Other: WELL DIAMETER: 50 mm WELL STICK-UP:														
WELL GAUGING AND PURGE VOLUME CALCULATIONS														
TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN Using the water column calculation on the left, LITRES PER 1 WELL VOLUME														
refer to the Well Volume Calculation Form for the correct 13.000 m (-) 9.744 m (=) 3.256 m volume to be removed from the well and enter it on the right 6.512_L														
TIME OF DAY PUMP RATE (ml/min) VOLUME (L) DEPTH TO WATER (m) (mg/l) DISSOLVED OXYGEN (mS or \mu S/cm) PH (pH units) PH (pH units) REDOX POTENTIAL (mV) TEMPERATURE (°C) SEDIMENTS/ PSH COLLECTED?)														
READING CHANGE* READING CHANGE* READING CHANGE* READING CHANGE* 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/sh												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
	ILISATION CRI s within follow		± 0.05	± 1	0%	± 10) mv	± 1	0%	± 1	0%	± 0	.1°C	
	DUPLICATE COLLECTED: V DUPLICATE ID: DUP2 TRIPLICATE COLLECTED: V N TRIPLICATE ID: DUP2A WERE METALS FIELD FILTERED? V NN (UNFILTERED SAMPLES MUST NOT BE PUT INTO A PRESERVED CONTAINER (IE. 'METALS' BOTTLE))													



	_													
	PROJECT NAME: Valad Property Tempe PROJECT NUMBER: ENVILCOV00315AH													
FI	ELD PERSON	INEL: Nath	an Fuser/Nic	ck Cowa	n						DATE	5/6/08		
PROJI	PROJECT MANAGER: Benedict Smith													
WELL ID	D: MW20		METER ID: \	NQM2			-	TOTAL WEI	_L DEPTH:	11.500 m		SC	REEN INTE	RVAL:
	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 WELL DIAMIETER: 50 mm WELL STICK-UP:													
TOTAL WELL DEPTH (-) WATER LEVEL (=) WATER COLUMN Using the water column calculation on the left, LITRES PER 1 WELL VOLUME														
refer to the Well Volume Calculation Form for the correct 11.500 m (-) 5.762 m (=) 5.378 m volume to be removed from the well and enter it on the right 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 \muS/cm) PH (pH units) PH (pH units) POTENTIAL (mV) TEMPERATURE (°C) SEDIMENTS/ PSH COLLECTED?)														
(mg/l) (ms or \mu s/cm) (mV) (To) 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
STAR	ILISATION CR	ITEDIA												
	s within follow		± 0.05	± 1	0%	± 10) mv	± 1	0%	± 1	0%	± 0	.1°C	
DUPLICATE COLLECTED: Y N DUPLICATE ID: TRIPLICATE COLLECTED: Y N TRIPLICATE ID:														
WERE MET	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





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NATA accredited laboratory 2562 (4354)

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Page 1 of 4



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





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Page 1 of 6

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

PROJECT: EL00315AH REPORT NO: 61516

Asbestos ID in soil Our Reference: Your Reference Sample Type	UNITS	61516-64 BH38 Soil	61516-70 BH45 Soil	61516-75 BH37 Soil	61516-80 MW15 Soil	61516-87 MW11 Soil
Depth Date Sampled		0.5-0.7 26/05/2008	0.5-0.7 26/05/2008	0.5-0.7 26/05/2008	0.5-0.7 27/05/2008	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	UNITS	61516-92 MW12	61516-97 MW16	61516-102 BH36	61516-106 MW14	61516-111 BH27
Sample Type		Soil	Soil	Soil	Soil	Soil
Depth Date Sampled		0.5-0.7 27/05/2008	0.5-0.7 28/05/2008	0.3-0.4 28/05/2008	0.5-0.7 28/05/2008	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:	UNITS	61516-115	61516-118	61516-122	61516-128	61516-133
Your Reference		MW10	BH42	BH39	MW13	BH32
Sample Type		Soil	Soil	Soil	Soil	Soil
Depth Date Sampled		0.5-0.7 28/05/2008	0.5-0.7 29/05/2008	0.5-0.7 29/05/2008	0.5-0.7 29/05/2008	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

PROJECT: EL00315AH **REPORT NO: 61516**

Asbestos ID in soil Our Reference:	UNITS	61516-137	61516-144	61516-145	61516-149	61516-153
Your Reference		BH41	BH46	MW9	BH26	BH44
Sample Type		Soil	Soil	Soil	Soil	Soil
Depth Date Sampled		0.5-0.7 30/05/2008	0.5-0.7 30/05/2008	0.5-0.7 30/05/2008	0.5-0.7 30/05/2008	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:	UNITS	61516-156	61516-162	61516-166	61516-170	61516-17

Asbestos ID in soil						
Our Reference:	UNITS	61516-156	61516-162	61516-166	61516-170	61516-171
Your Reference		MW18	BH47	MW17	BH52	MW19
Sample Type		Soil	Soil	Soil	Soil	Soil
Depth Date Sampled		0.5-0.7 31/05/2008	0.2-0.3 31/05/2008	0.5-0.7 31/05/2008	0.2-0.3 31/05/2008	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:	UNITS	61516-173
Your Reference		MW20
Sample Type		Soil
Depth Date Sampled		0.5-0.7 3/06/2008
Date Analysed		11/06/2008
Sample Description		23g soil, clay
Asbestos ID in soil	-	No asbestos detected

PROJECT: EL00315AH REPORT NO: 61516

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.

PROJECT: EL00315AH REPORT NO: 61516

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).

This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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.

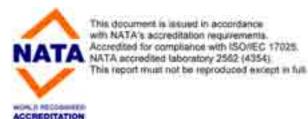
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

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.



	1		I	I	I	I
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	No	No	No	No
7.0000.00 12 11 0011		asbestos	asbestos	asbestos	asbestos	asbestos
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Anhantas ID in anti						
Asbestos ID in soil	LINUTO	64470.00	61170 40	61170 45	61170 50	61170 54
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 Pata Sampled		1.0-1.2 21/05/2008	1.0-1.2	0.5-0.7 21/05/2008	0.5-0.7 21/05/2008	0.5-0.7 21/05/2008
Date Sampled		21/05/2006	21/05/2008	21/05/2006	21/05/2006	21/05/2006
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

PROJECT: EC00315AM REPORT NO: 61172

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.

PROJECT: EC00315AM REPORT NO: 61172

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).

This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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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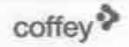
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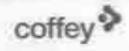
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AU.SampleReceipt.Sydney (Sydney)

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 61518), 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)

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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) PLEASE IGNORE THESE MISSING

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 SAMPLES, PLEASE HOLD. BH40 1.4-1.5 30/05/08 BH16 1.5-1.7 23/05/08 (Red clay) Unlabelled bag (Black diff)

Unlabelled bag (Red/brown clay)

PLEASE DO NOT ANALYSE THESE

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.

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?

RENEDICT SMITH Environmental Scientist

Coffey Environments

B/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-

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BH47 1.0-1.2 31/05/08 (Not required for analysis) MW17 0.8-0.9 31/05/08 (Not required for analysis)

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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
Angels Mamalicos
SGS Environmental Services
Sample Administration Manager

SGS Australia Pty Ltd Unit 16: 33 Maddox SI Alexandria, NSW, 2015 Phone: +51 (0)2 6594 0400 Fax: +61 (0)2 8594 0499

E-mail au sampler-const symmy@sgs.com

Web: www.mc.sqs.loon

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AUSTRALIAN QUARANTINE AND INSPECTION SERVICE

SYDNEY License No. N0356

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

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No: E037769 Cover Page 1 of 4 Coffey Environments Pty Ltd **Client Name:** plus Sample Results

EL00315AH **Client Reference: Benedict Smith Contact Name:**

Date Received: 23/05/2008 4323 **Chain of Custody No:** SOIL Date Reported: 02/06/2008 Sample Matrix:

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

1 in first 5-20, then 1 every 20 samples Accuracy: matrix spike:

> 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

(MDL)

QUALITY CONTROL GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy: spike, lcs, crm general analytes 70% - 130% recovery

surrogate:

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 0-30% (>10xEQL), 0-75% (5-10xEQL)

RPD (metals): 0-100% (<5xEQL)

duplicate lab 0-50% (>10xEQL), 0-75% (5-10xEQL)

RPD: 0-100% (<5xEQL)

OUALITY CONTROL ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy: spike, lcs, crm analyte specific recovery data

surrogate: <3xsd of historical mean

Sensitivity: EOL: Typically 2-5 x Method Detection Limit **Uncertainty:** measurement calculated from spike, lcs:

historical analyte specific control

charts

RESULT ANNOTATION

Data Quality Objective matrix spike recovery bcs: batch specific lcs s: p: pending Data Quality Indicator d: laboratory duplicate laboratory control sample bmb: batch specific mb lcs:

Estimated Quantitation Limit t: laboratory triplicate certified reference material crm:

RPD relative % difference not applicable mb: method blank

* SYDNEY: Unit 1, 8 Leighton Place Asquith NSW 2077

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

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

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

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

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Laboratory Report: E037769

Cover Page 2 of 4

NEPC GUIDELINE COMPLIANCE - DQO

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.
- 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

* SYDNEY: Unit 1, 8 Leighton Place Asquith NSW 2077

- 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

Cover Page 3 of 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:

number of discrete duplicate extractions/analyses performed. #d

%d-ratio NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).

number of triplicate extractions/analyses performed. #t

number of spiked samples analysed.

%s-ratio USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT 5.





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 <u>DOES NOT</u> report <u>NON-RELEVANT BATCH QA/QC</u> 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.



Client Name:

Client Reference:

Coffey Environments Pty Ltd

EL00315AH

Contact Name: Benedict Smith

Date: 02/06/08

Page: 1 of 6

plus cover page

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) C6 - C9 Fraction	EQL 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.



Client Name:

Contact Name:

Coffey Environments Pty Ltd

Benedict Smith

plus cover page **Date:** 02/06/08

Page: 2 of 6

Certificate of Analysis

Final

02/06/08

Client Reference: EL00315AH This report supercedes reports issued on: N/A

Laboratory Identification		157075	lcs	mb				
Sample Identification		DUP2a	QC	QC				
Depth (m) Sampling Date recorded on COC		20/5/08						
Laboratory Extraction (Preparation) Date Laboratory Analysis Date		28/5/08 29/5/08	28/5/08 28/5/08	28/5/08 28/5/08				
Method: E006.2 Petroleum Hydrocarbons (TPH) C10 - C14 Fraction C15 - C28 Fraction C29 - C36 Fraction Sum of TPH C10 - C36	EQL 50 100 100	<50 <100 <100 	99% 	<50 <100 <100 				

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.



Client Name: Coffey Environments Pty Ltd

Contact Name: Benedict Smith

Client Reference: EL00315AH

Page: 3 of 6 Final

plus cover page Certificate

of Analysis

This report supercedes reports issued on: N/A

Date: 02/06/08

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.



Client Name:

Coffey Environments Pty Ltd

Contact Name: Benedict Smith

Page: 4 of 6 plus cover page

Certificate

Date: 02/06/08

of Analysis

Final

Client Reference: EL00315AH This report supercedes reports issued on: N/A

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.



Coffey Environments Pty Ltd

Contact Name: Benedict Smith

plus cover page

Page: 5 of 6

Certificate

Date: 02/06/08

of Analysis

Final

Client Reference:

Client Name:

EL00315AH

This report supercedes reports issued on: N/A

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	<u>-</u>	28/5/08	28/5/08	28/5/08	28/5/08			
Method: E026.2 Acid extractable mercury Mercury	EQL 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.



Coffey Environments Pty Ltd

plus cover page

Page: 6 of 6

Certificate

Contact Name:

Client Name:

Benedict Smith

Date: 02/06/08

of Analysis

Final

Client Reference:

EL00315AH

This report supercedes reports issued on: N/A

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 Moisture	EQL 	18					

Results expressed in % w/w unless otherwise specified

Comments:

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



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

Sample

Receipt

Invoice Number: 32035



Quality, Service, Support

	Client Detai	Is	Laboratory	Reference Information
Client Name: Client Phone:	Coffey Environmen 02 8083 1600	nts Pty Ltd	II	re this information ready contacting Labmark.
Client Fax: Contact Name:	02 8765 0762 Benedict Smith		Laboratory Report:	E037769
Contact Email: Client Address:	benedict_smith@c Level 1, 3 Rider Bo Rhodes NSW 213	oulevard	Quotation Number: Laboratory Address:	- Not provided, standard prices apply Unit 1, 8 Leighton Pl. Asquith NSW 2077
Project Name: Project Number:	EL00315AH - Not provided -		Phone: Fax:	61 2 9476 6533 61 2 9476 8219
CoC Serial Number Purchase Order:	r: 4323 - Not provided -		Sample Receipt Contact	
Surcharge:	No surcharge appl due date)	ied (results by 6:30pm on	Email: Reporting Contact: Email:	jakleen.galada@labmark.com.au Jyothi Lal jyothi.lal@labmark.com.au
Sample Matrix:	SOIL			jyotiii.iai@iabiiiaik.com.au
Date Sampled (ear Date Samples Rec Date Sample Rece Date Preliminary R	eived: ipt Notice issued:	20/05/2008 23/05/2008 26/05/2008 02/06/2008	NATA Accreditation: TGA GMP License: APVMA License: AQIS Approval: AQIS Entry Permit:	13542 185-336 (Sydney) 6105 (Sydney) NO356 (Sydney) 200521534 (Sydney)

Reporting Requirements: Electronic Data Download required:No

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:



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

Sample

Receipt



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 RI	EVIEW TABLE									Re	ques	ted A	nalys	sis				
				<u></u>		(PAH)		(ТРН)										
			ury	(M7)		Polyaromatic Hydrocarbons			(vTPH)									
			merc	metals		droca	rted	carbo	P&T (
		P&T	Acid extractable mercury	Acid extractable		tic Hy	Not Reported	Petroleum Hydrocarbons	þ									
		by Pa	extrac	extrac	nre	roma		leum	ile TPH									
No. Date Depth	Client Sample ID	BTEX by	Acid	Acid	Moisture	Polya	PREP	Petro	Volatile									
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.



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

Sample

Receipt



Quality, Service, Support

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

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Detection Limits:

Chain of Custody

Laboratory Quotation / Order No:

Job No:

Dispatch to: (Address & Phone No.)	LŠ		Sampled	Sampled by: COMMAN Consigning Officer: L.C. DEFICE Date Dispatched: Date Dispatched:								٥						
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Comments	Sample Meins	Container Type arid Preservative	Sarry	ple No.	Date Sampled	PAHs	TPHS	MAHS = BTEX	Metals:	W.	11.5							Sample Condition on Receipt
	56/4	(18)	DUP :	21	20/5/63	1			1	15	8							
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Report Date: 26/05/2008 Report Time: 10:39:39AM

Sample

Receipt

Invoice Number: 32035



Quality, Service, Support

	Client Detai	ls	Laboratory Reference Information							
Client Name: Client Phone:	Coffey Environmer 02 8083 1600	nts Pty Ltd	II.	e this information ready contacting Labmark.						
Client Fax: Contact Name:	02 8765 0762 Benedict Smith		Laboratory Report:	E037769						
Contact Email: Client Address:	benedict_smith@c Level 1, 3 Rider Bo Rhodes NSW 213	oulevard	Quotation Number: Laboratory Address:	- Not provided, standard prices apply Unit 1, 8 Leighton Pl. Asquith NSW 2077						
Project Name: Project Number:	EL00315AH - Not provided -		Phone: Fax:	61 2 9476 6533 61 2 9476 8219						
CoC Serial Number Purchase Order: Surcharge:	- Not provided -	lied (results by 6:30pm on	Sample Receipt Contact Email: Reporting Contact:	jakleen.galada@labmark.com.au Jyothi Lal						
Sample Matrix:	SOIL		Email:	jyothi.lal@labmark.com.au						
Date Sampled (ear Date Samples Rec Date Sample Rece Date Preliminary F	eived: ipt Notice issued:	20/05/2008 23/05/2008 26/05/2008 02/06/2008	NATA Accreditation: TGA GMP License: APVMA License: AQIS Approval: AQIS Entry Permit:	13542 185-336 (Sydney) 6105 (Sydney) NO356 (Sydney) 200521534 (Sydney)						

Reporting Requirements: Electronic Data Download required:No

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:

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Important Notes:

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Analysis comments:

Subcontracted Analyses:



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

Sample

Receipt



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 RI	EVIEW TABLE									Re	ques	ted A	naly	sis				
				<u></u>		(PAH)		(ТРН)										
			ury	(M7)		Polyaromatic Hydrocarbons			(vTPH)									
			merc	metals		droca	rted	carbo	P&T (
		P&T	Acid extractable mercury	table		tic Hy	Not Reported	Petroleum Hydrocarbons	by									
		by P8	extrac	Acid extractable	ure	romai		leum	le TPH									
No. Date Depth	Client Sample ID	BTEX by	Acid e	Acid e	Moisture	Polya	PREP	Petro	Volatile									
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.



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

Sample

Receipt



Quality, Service, Support

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

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Detection Limits:

Chain of Custody

Laboratory Quotation / Order No:

Job No:

Dispatch to: (Address & Phone No.)	LŠ		Sampled	Sampled by: COMMAN Consigning Officer: L.C. DEFICE Date Dispatched: Date Dispatched:								٥						
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Comments	Sample Meins	Container Type arid Preservative	Sarry	ple No.	Date Sampled	PAHs	TPHS	MAHS = BTEX	Metals:	W.	11.5							Sample Condition on Receipt
	56/4	(18)	DUP :	21	20/5/63	1			1	15	8							
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results of tests, calibrations and/or measurements included in this document are traceable to



AUSTRALIAN QUARANTINE AND INSPECTION SERVICE

SYDNEY License No. N0356

Quarantine Approved premises criteria 5.1 for quarantine 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

Australian/national standards. NATA is a signatory to Australian and a standards. NATA is a the APLAC mutual recognition arrangem mutual recognition of the equivalence calibration and inspection reports.

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No: E037774 Cover Page 1 of 4 Coffey Environments Pty Ltd **Client Name:** plus Sample Results

EL00315AH **Client Reference: Benedict Smith Contact Name:**

Date Received: 23/05/2008 4326 **Chain of Custody No:** SOIL Date Reported: 02/06/2008 Sample Matrix:

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

1 in first 5-20, then 1 every 20 samples Accuracy: matrix spike:

> lcs, crm, method: 1 per analytical batch

addition per target organic method surrogate spike:

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: EOL:

(MDL)

QUALITY CONTROL GLOBAL ACCEPTANCE CRITERIA (GAC)

general analytes 70% - 130% recovery Accuracy: spike, lcs, crm

> surrogate: 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 0-30% (>10xEQL), 0-75% (5-10xEQL)

RPD (metals): 0-100% (<5xEQL)

duplicate lab 0-50% (>10xEQL), 0-75% (5-10xEQL)

RPD: 0-100% (<5xEQL)

OUALITY CONTROL ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy: spike, lcs, crm analyte specific recovery data

surrogate: <3xsd of historical mean

Typically 2-5 x Method Detection Limit **Uncertainty:** measurement calculated from spike, lcs:

historical analyte specific control

charts

RESULT ANNOTATION

Data Quality Objective matrix spike recovery DOO: pending p:

DQI: Data Quality Indicator laboratory duplicate laboratory control sample d: lcs: EQL: **Estimated Quantitation Limit** laboratory triplicate certified reference material t: crm:

- - : RPD relative % difference not applicable method blank mb:

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

Authorising Chemist (NATA signatory)

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Authorising Chemist (NATA signatory)

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This document is issued in accordance with NATA's accreditation requirements. LabMark PTY LTD ABN 27 079 798 393





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NEPC GUIDELINE COMPLIANCE - DQO

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.
- 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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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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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.