

Borehole ID.	BH207
sheet:	4 of 4
project no.	GEOTLCOV24303AH
date started:	14 May 2013
date completed:	15 May 2013
logged by:	JW
checked by:	DS

client: ***Lend Lease Development Pty Ltd***
principal:
project: ***SICEEP - International Convention Centre (ICC) Hotel***
location: ***Darling Harbour, Sydney***

position: E: 333,380.80; N: 6,250,502.90 (Datum Not Specified) surface elevation : 2.80m (Datum Not Specified) angle from horizontal: 90°

drill model: DP520

mounting: Track

Casing Diameter : HQ

drilling information				material substance				rock mass defects			
method & support	water	RL (m)	depth (m)	graphic log	material description ROCK TYPE: grain characteristics, colour, structure, minor components	weathering & alteration	estimated strength & Is(50) X = axial; O = diametral a = axial; d = diametral	samples, field tests & Is(50) (MPa)	core run & RQD	defect spacing (mm)	additional observations and defect descriptions (type, inclination, planarity, roughness, coating, thickness, other)
NMLC		-14	17.0		SANDSTONE: medium to coarse grained, pale grey, with dark grey laminae, indistinctly cross bedded at 0-10° (continued)	FR		d=2.04	100%		PT, 0°, PL, RO, CN, x3 PT, 0°, PL, RO, Clay CO
		-15	18.0				a=1.77 d=1.20	100%			
		-16	19.0				a=2.54 d=3.00	98%			
		-17	20.0				a=2.41 d=2.41	100%			
		-18	21.0				a=3.23 d=2.33				
		-19	22.0								
		-20	23.0								
		-21	24.0								
Borehole BH207 terminated at 20.30 m											

method & support

DT diatube
AS auger screwing
AD auger drilling
RR roller/tricone
CB claw or blade bit
W washbore
NMLC NMLC core (51.9 mm)
NQ wireline core (47.6mm)
HQ wireline core (63.5mm)
PQ wireline core (85.0mm)
SPT standard penetration test

water

10/10/12, water level on date shown

water inflow

complete drilling fluid loss

partial drilling fluid loss

25uL

water pressure test result (lugeons) for depth interval shown

graphic log / core recovery

core recovered (graphic symbols indicate material)

no core recovered

core run & RQD

barrel withdrawn

RQD = Rock Quality Designation (%)

weathering & alteration*

RS residual soil
XW extremely weathered
HW highly weathered
DW distinctly weathered
MW moderately weathered
SW slightly weathered
FR fresh
*W replaced with A for alteration

strength

VL very low
L low
M medium
H high
VH very high
EH extremely high

defect type

PT parting
JT joint
SZ shear zone
SS shear surface
CS crushed seam
SM seam
DB drilling break

roughness

SL slickensided
POL polished
SO smooth
RO rough
VR very rough

planarity

PL planar
CU curved
UN undulating
ST stepped
IR Irregular

coating

CN clean
SN stain
VN veneer
CO coating



PointID : BH207 Depth Range: 2.70 - 7.00 m

drawn			client:	Lend Lease Development Pty Ltd		
approved			project:	SICEEP - International Convention Centre (ICC) Hotel Darling Harbour, Sydney		
date	07/06/2013		title:	CORE PHOTOGRAPH BH207		
scale	N.T.S.		project no:	GEOTLCOV24303AH	fig no:	FIGURE 23
original size	A4		rev:			



PointID : BH207 Depth Range: 7.00 - 12.00 m

drawn			client:	Lend Lease Development Pty Ltd		
approved			project:	SICEEP - International Convention Centre (ICC) Hotel Darling Harbour, Sydney		
date	07/06/2013		title:	CORE PHOTOGRAPH BH207		
scale	N.T.S.		project no:	GEOTLCOV24303AH	fig no:	FIGURE 24
original size	A4		rev:			



PointID : BH207 Depth Range: 12.00 - 18.00 m

drawn			client:	Lend Lease Development Pty Ltd		
approved			project:	SICEEP - International Convention Centre (ICC) Hotel Darling Harbour, Sydney		
date	07/06/2013		title:	CORE PHOTOGRAPH BH207		
scale	N.T.S.		project no:	GEOTLCOV24303AH	fig no:	FIGURE 25
original size	A4		rev:			

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PointID : BH207 Depth Range: 18.00 - 20.30 m

drawn			client:	Lend Lease Development Pty Ltd		
approved			project:	SICEEP - International Convention Centre (ICC) Hotel Darling Harbour, Sydney		
date	07/06/2013		title:	CORE PHOTOGRAPH BH207		
scale	N.T.S.		project no:	GEOTLCOV24303AH	fig no:	FIGURE 26
original size	A4				rev:	

Engineering Log - Borehole

client: ***Lend Lease Development Pty Ltd***

principal:

project: **SICEEP - International Convention Centre (ICC) Hotel**

location: ***Darling Harbour, Sydney***

Borehole ID. **BH208**

sheet: 1 of 4

project no. **GEOTLCOV24303AH**

date started: **21 May 2013**

date completed: **22 May 2013**

logged by: **CL**

checked by: **DS**

position: E: 333,366.90; N: 6,250,510.70 (Datum Not Specified) surface elevation : 2.80m (Datum Not Specified) angle from horizontal: 90°

drill model: DP520

mounting: Track

Casing Diameter : HQ

drilling information					material substance							
method & support	penetration	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	hand penetrometer (kPa)	structure and additional observations
DT AD/T HQ Casing			E E E E SPT 30 N*=R	-2 -1 0 -1 -2 -3 -4 -5	1.0 2.0 3.0 4.0 5.0 6.0 7.0		SP	BRICK PAVER: 0.1m. CONCRETE: 0.1m. ASPHALT: 0.3m.	D	L / MD	100 200 300 400	PAVEMENT PID = 0 ppm at 0.2m, no staining or odour
								FILL: Gravelly SAND: fine to coarse, brown, fine to coarse sandstone and igneous rock gravel. from 0.8m - becoming orange brown FILL: SAND: fine, yellow brown.				ROADBASE PID = 0 ppm at 0.5m, no staining or odour
												FILL PID = 0 ppm at 1m, no staining or odour
												PID = 0 ppm at 2m, no staining or odour
												ALLUVIUM PID = 0 ppm at 3m, no staining or odour
SANDSTONE: fine to medium grained, orange brown mottled grey and brown, extremely to highly weathered, low strength Borehole BH208 continued as cored hole											BEDROCK	
method AD auger drilling* AS auger screwing* RR roller/tricone W washbore CT cable tool HA hand auger DT diatube B blank bit V V bit T TC bit * bit shown by suffix e.g. AD/T												
support M mud C casing N nil penetration water 												
samples & field tests U## undisturbed sample ##mm diameter D disturbed sample B bulk disturbed sample E environmental sample HP hand penetrometer (kPa) N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone VS vane shearpeak/remoulded (uncorrected kPa) R refusal												
classification symbol & soil description based on Unified Classification System moisture D dry M moist W wet												
consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense												

Borehole ID.	BH208
sheet:	2 of 4
project no.	<u>GEOTLCOV24303AH</u>
date started:	21 May 2013
date completed:	22 May 2013
logged by:	CL
checked by:	DS

principal:

date started: **21 May 2013**

date completed: **22 May 2013**

logged by: **CL**

location: ***Darling Harbour, Sydney***

checked by: **DS**

position: E: 333,366.90; N: 6,250,510.70 (Datum Not Specified)
surface elevation : 2.80m (Datum Not Specified)angle from horizontal: 90°
drill model: DP520 mounting: Track casing diameter : HQ

drilling information				material substance			rock mass defects												
method & support	water	RL (m)	depth (m)	graphic log	material description ROCK TYPE: grain characteristics, colour, structure, minor components	weathering & alteration	estimated strength & Is(50)				samples, field tests & Is(50) (MPa) a = axial; d = diametral	core run & RQD	defect spacing (mm)				additional observations and defect descriptions (type, inclination, planarity, roughness, coating, thickness, other)		
							VL	L	M	H			VH	FH	30	100	300	1000	3000
NMMLC		-2	1.0																
		-1	2.0																
		-0	3.0																
					start coring at 3.25m														
		-1	4.0		SANDSTONE: medium to coarse grained, pale grey with dark grey laminae, distinctly cross bedded at 0-15°, iron stained at surface	SW FR			X	a=2.59 d=1.20 a=1.83 d=1.78	97%						PT, 0°, PL, RO, Fe SN		
		-2	5.0		SANDSTONE: fine to medium grained, pale grey with carbonaceous flecks, massive to indistinctly bedded				O									PT, 5°, PL, RO, Fe SN PT, 10°, PL, RO, CN	
		-3	6.0						O	a=2.56 d=1.59	87%							SM, Clay, 10 mm PT, 5°, PL, RO, CN	
		-4	7.0		SANDSTONE: medium to coarse grained, grey with some dark grey shale lenticles, distinctly cross bedded at 0-5°				X	a=1.39 d=1.22 a=1.86 d=2.05								PT, 5°, PL, RO, Clay CO PT, 5°, PL, RO, Clay CO PT, 0°, PL, RO, Clay CO	
		-5			NO CORE: 0.19 m	XW					87%							XW SM, Clay, 60mm PT, 0°, PL, RO, Clay CO	

method & support
DT diatube
AS auger screwing
AD auger drilling
RR roller/tricone
CB claw or blade bit
W washbore
NMMLC NMMLC core (51.9 mm)
NQ wireline core (47.6mm)
HQ wireline core (63.5mm)
PQ wireline core (85.0mm)
SPT standard penetration test

water
10/10/12, water level on date shown
water inflow
complete drilling fluid loss
partial drilling fluid loss
25uL water pressure test result (lugeons) for depth interval shown

graphic log / core recovery
 core recovered (graphic symbols indicate material)
 no core recovered
core run & RQD
 barrel withdrawn
RQD = Rock Quality Designation (%)

weathering & alteration*
RS residual soil
XW extremely weathered
HW highly weathered
DW distinctively weathered
MW moderately weathered
SW slightly weathered
FR fresh
*W replaced with A for alteration
strength
VL very low
L low
M medium
H high
VH very high
FH extremely high

defect type
PT parting
JT joint
SZ shear zone
SS shear surface
CS crushed seam
SM seam
DB drilling break
roughness
SL slickensided
POL polished
SO smooth
RO rough
VR very rough
planarity
PL planar
CU curved
UN undulating
ST stepped
IR Irregular
coating
CN clean
SN stain
VN veneer
CO coating

Engineering Log - Cored Borehole

client: **Lend Lease Development Pty Ltd**

principal:

project: **SICEEP - International Convention Centre (ICC) Hotel**

location: **Darling Harbour, Sydney**

Borehole ID. **BH208**

sheet: 3 of 4

project no. **GEOTLCOV24303AH**

date started: **21 May 2013**

date completed: **22 May 2013**

logged by: **CL**

checked by: **DS**

position: E: 333,366.90; N: 6,250,510.70 (Datum Not Specified) surface elevation : 2.80m (Datum Not Specified) angle from horizontal: 90°

drill model: DP520

mounting: Track

Casing Diameter : HQ

drilling information				material substance		rock mass defects												
method & support	water	RL (m)	depth (m)	graphic log	material description ROCK TYPE: grain characteristics, colour, structure, minor components	weathering & alteration	estimated strength & Is(50)				samples, field tests & Is(50) (MPa)	core run & RQD	defect spacing (mm)				additional observations and defect descriptions (type, inclination, planarity, roughness, coating, thickness, other)	
							VL	L	M	H			VH	EH	30	100	300	1000
NMLC			-6		SANDSTONE: medium to coarse grained, grey with some dark grey shale lenticles and clasts, distinctly cross bedded at 0-5° (continued)	FR						87%				PT, 0°, PL, RO, CN		
			-9.0		SANDSTONE: fine grained, grey with grey laminae, distinctly cross bedded at 0-5°								100%					
			-7														PT, 0°, PL, RO, CO, Siderite	
			-10.0														PT, 0°, PL, RO, Clay CO	
			-8		SANDSTONE: fine to medium grained, pale grey with some carbonaceous flecks, massive								100%				SM, Clay, 20 mm	
			-11.0														JT, 15°, PL, RO, CN	
			-9											100%				
			-12.0															
			-10															
			-13.0				14.2m: some shale clasts up to 50mm							100%				PT, 0°, PL, RO, CN
		-14.0																
		-11																
		-12																
		-15.0			SANDSTONE: fine grained, pale grey, with grey laminae, distinctly bedded at 0-5°, with some silty sandstone beds											SM, Clay, 10 mm		
		-13																
method & support				water		graphic log / core recovery		weathering & alteration*				defect type				planarity		
DT diatube AS auger screwing AD auger drilling RR roller/tricone CB claw or blade bit W washbore NMLC NMLC core (51.9 mm) NQ wireline core (47.6mm) HQ wireline core (63.5mm) PQ wireline core (85.0mm) SPT standard penetration test				10/10/12, water level on date shown water inflow complete drilling fluid loss partial drilling fluid loss water pressure test result (lugeons) for depth interval shown		core recovered (graphic symbols indicate material) no core recovered core run & RQD barrel withdrawn RQD = Rock Quality Designation (%)		RS residual soil XW extremely weathered HW highly weathered DW distinctly weathered MW moderately weathered SW slightly weathered FR fresh *W replaced with A for alteration strength VL very low L low M medium H high VH very high EH extremely high				PT parting JT joint SZ shear zone SS shear surface CS crushed seam SM seam DB drilling break roughness SL slickensided POL polished SO smooth RO rough VR very rough				PL planar CU curved UN undulating ST stepped IR Irregular coating CN clean SN stain VN veneer CO coating		

checked by: **DS**

position: E: 333,366.90; N: 6,250,510.70 (Datum Not Specified) surface elevation : 2.80m (Datum Not Specified) angle from horizontal: 90°

drill model: DP520

mounting: Track

Casing Diameter : HQ

drilling information				material substance				rock mass defects			
method & support	water	RL (m)	depth (m)	graphic log	material description ROCK TYPE: grain characteristics, colour, structure, minor components	weathering & alteration	estimated strength & Is(50) X = axial; O = diametral a = axial; d = diametral	samples, field tests & Is(50) (MPa)	core run & RQD	defect spacing (mm)	additional observations and defect descriptions (type, inclination, planarity, roughness, coating, thickness, other)
NMLC					SANDSTONE: fine to medium grained, pale grey with a trace of dark grey laminae and shale lenticles, distinctly cross bedded at 0-10°	FR		a=1.82 d=2.72	97%		JT, 85°, ST, RO, CN Highly fractured zone, 30mm PT, 0°, PL, RO, CO, Siderite
		-14	17.0					a=2.36 d=3.10			
		-15	18.0					a=2.92 d=3.21			
		-16	19.0					a=2.64 d=2.53			
		-17	20.0					a=2.74 d=2.34			
		-18	21.0		Borehole BH208 terminated at 20.72 m						
		-19	22.0								
		-20	23.0								
		-21									

method & support

DT diatube
AS auger screwing
AD auger drilling
RR roller/tricone
CB claw or blade bit
W washbore
NMLC NMLC core (51.9 mm)
NQ wireline core (47.6mm)
HQ wireline core (63.5mm)
PQ wireline core (85.0mm)
SPT standard penetration test

water

10/10/12, water level on date shown

water inflow

complete drilling fluid loss

partial drilling fluid loss

25uL

water pressure test result (lugeons) for depth interval shown

graphic log / core recovery

core recovered (graphic symbols indicate material)

no core recovered

core run & RQD

barrel withdrawn

RQD = Rock Quality Designation (%)

weathering & alteration*

RS residual soil
XW extremely weathered
HW highly weathered
DW distinctly weathered
MW moderately weathered
SW slightly weathered
FR fresh
*W replaced with A for alteration

strength

VL very low
L low
M medium
H high
VH very high
FH extremely high

defect type

PT parting
JT joint
SZ shear zone
SS shear surface
CS crushed seam
SM seam
DB drilling break

roughness

SL slickensided
POL polished
SO smooth
RO rough
VR very rough

planarity

PL planar
CU curved
UN undulating
ST stepped
IR irregular

coating

CN clean
SN stain
VN veneer
CO coating



PointID : BH208 Depth Range: 3.25 - 9.00 m

drawn			client:	Lend Lease Development Pty Ltd		
approved			project:	SICEEP - International Convention Centre (ICC) Hotel Darling Harbour, Sydney		
date	07/06/2013		title:	CORE PHOTOGRAPH BH208		
scale	N.T.S.		project no:	GEOTLCOV24303AH	fig no:	FIGURE 27
original size	A4				rev:	

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PointID : BH208 Depth Range: 9.00 - 16.00 m

drawn			client:	Lend Lease Development Pty Ltd		
approved			project:	SICEEP - International Convention Centre (ICC) Hotel Darling Harbour, Sydney		
date	07/06/2013		title:	CORE PHOTOGRAPH BH208		
scale	N.T.S.		project no:	GEOTLCOV24303AH	fig no:	FIGURE 28
original size	A4				rev:	

CDF 0.9 04ALGLB Gfctrl COF PHOTO CORE PHOTO 1 PER PAGE GEOTLCOV24303AH BH208 SERIES.GPJ <<DrawingFiles> 07/06/2013 11:01



PointID : BH208 Depth Range: 16.00 - 20.72 m

drawn		 SPECIALISTS MANAGING THE EARTH	client:	Lend Lease Development Pty Ltd		
approved			project:	SICEEP - International Convention Centre (ICC) Hotel Darling Harbour, Sydney		
date	07/06/2013		title:	CORE PHOTOGRAPH BH208		
scale	N.T.S.		project no:	GEOTLCOV24303AH	fig no:	FIGURE 29
original size	A4				rev:	

Engineering Log - Borehole

client: **Lend Lease Development Pty Ltd**

principal:

project: **SICEEP - International Convention Centre (ICC) Hotel**

location: **Darling Harbour, Sydney**

Borehole ID. **BH209**

sheet: 1 of 1

project no. **GEOTLCOV24303AH**

date started: **28 May 2013**

date completed: **28 May 2013**

logged by: **DB**

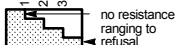
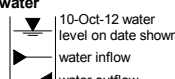
checked by: **DS**

position: E: 333,376.70; N: 6,250,542.30 (Datum Not Specified) surface elevation: 3.00m (Datum Not Specified) angle from horizontal: 90°

drill model: Hand Auger

mounting:

hole diameter: 100 mm

drilling information				material substance															
method & support	penetration			water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description	moisture condition	consistency / relative density	hand penetrometer (kPa)	structure and additional observations					
	1	2	3																
HA	1	2	3			0				BRICK PAVER: 0.08m.	D		100	PAVEMENT					
										FILL: SAND: medium - coarse, pale brown to orange brown.	M		200	FILL					
										FILL: BITUMEN			300	STABILISED ROADBASE					
										FILL: Gravelly SAND: medium - coarse, dark grey, fine to medium grained subangular gravel with some lime.			400	BEDROCK					
										SANDSTONE: medium, orange brown to pale grey, moderately weathered, medium strength.									
										Borehole BH209 terminated at 0.45 m									
						-2	1.0												
						-1	2.0												
						0	3.0												
						-1	4.0												
						-2	5.0												
						-3	6.0												
						-4	7.0												
method AD auger drilling* AS auger screwing* RR roller/tricone W washbore CT cable tool HA hand auger DT diatube B blank bit V V bit T TC bit * bit shown by suffix e.g. AD/T				support M mud C casing N nil penetration  water 				samples & field tests U## undisturbed sample ##mm diameter D disturbed sample B bulk disturbed sample E environmental sample HP hand penetrometer (kPa) N standard penetration test (SPT) N* SPT - sample recovered Nc SPT with solid cone VS vane shearpeak/remoulded (uncorrected kPa) R refusal				classification symbol & soil description based on Unified Classification System moisture D dry M moist W wet				consistency / relative density VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense			

Appendix C

Laboratory Results: Summary Tables

**Detailed Site Investigation
Proposed International Convention Centre Hotel Development
Darling Harbour, Sydney NSW**

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for
Commercial/Industrial Uses (HIL D HSL D)

ICC Hotel Development, Darling Harbour, Sydney NSW

Field ID				NBH1 0.5-0.6	NBH1 1.5-1.9	BH101A (0.12-0.22m)	BH101A (0.5-0.6m)	BH101A (0.5-0.6m) A	BH101A (1.0-1.1m)	BH102 (0.5-0.6m)	BH102 (0.5-0.6m) A	BH102 (0.8-0.9m)	BH103 (0.12-0.22m)	BH103 (0.12-0.22m) A	BH103 (0.5-0.6m)
LocCode				NBH1 0.5-0.6	NBH1 1.5-1.9										
Sample Depth Range															
Sampled Date-Time				14/04/2012	14/04/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	3/12/2012	3/12/2012	3/12/2012	29/11/2012	29/11/2012	29/11/2012
Matrix Description															
Lab Report Number				SE107556-1	SE107556-1	361385	361385	361385	361385	361703	361703	361703	361195	361195	361195
Chem_Group	ChemName	Units	LOR	Health Investigation & Screening Levels (NEPM, HIL F & HSL F 1999)											
BTEX	Benzene	mg/kg	0.1	3	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99,000	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1	2700	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2	-	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3	230	<0.3	<0.3	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
	Naphthalene	mg/kg	0.5	11,000	-	-	-	-	-	-	-	-	-	-	-
	C6-C10 less BTEX (F1)	mg/kg	20	260	-	-	-	-	-	-	-	-	-	-	-
Field	pH (Field)	pH Units	0.1	-	-	-	-	-	-	-	-	-	-	-	-
Inorganics	Chloride	mg/kg	10	-	-	-	-	-	-	-	-	-	-	-	-
	Moisture Content (dried @ 103°C)	%	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	pH (aqueous extract)	pH Units	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Sulphate as S	mg/kg	10	-	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2	3000	<3	<3	<2	2.5	4.8	2.5	2.2	<2	-	<2	<2
	Cadmium	mg/kg	0.4	900	0.5	<0.3	<0.4	<0.4	<0.4	<0.4	<0.4	-	<0.4	<0.4	<0.4
	Chromium	mg/kg	5	3600	11	3.6	<5	<5	<5	7.2	<5	-	<5	<5	<5
	Copper	mg/kg	5	240,000	58	2.5	52	27	60	8.7	73	80	-	75	64
	Lead	mg/kg	5	1500	24	7	<5	13	52	20	10	10	-	<5	<5
	Mercury	mg/kg	0.05	730	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05
	Nickel	mg/kg	5	6000	92	1	110	48	89	5.5	110	130	-	110	120
	Zinc	mg/kg	5	400,000	79	19	51	42	260	31	70	71	-	50	46
PAH	Acenaphthene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1	-	<0.1	<0.1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(k)fluoranthene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	1	4000	<0.8	<0.8	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(a)Pyrene TEQ	mg/kg	-	40	-	-	-	-	-	-	-	-	-	-	-
TPH	F2-NAPHTHALENE	mg/kg	50	20,000	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	20	-	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20	20,000	<20	<20	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50	27,000	<50	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50	38,000	<50	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	50	-	<120	<120	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C16	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	27,000	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	38,000	-	-	-	-	-	-	-	-	-	-	-
	C6 - C10	mg/kg	20	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos		-	-	No Asbestos Detected	-	-	-	ND	-	-	ND	-	ND	-	ND

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for
Commercial/Industrial Uses (HIL D HSL D)

ICC Hotel Development, Darling Harbour, Sydney NSW

Field_ID		BH103 (1.0-1.1m)	BH103 (1.5-1.6m)	BH103 (1.5-1.6m) A	BH103 (2.5-2.6m)	BH103 (2.85-3.2m)	BH201 0.5-0.6	BH201 0.9-1.0A	BH201 0.9-1.0	BH201 1.9-2.0	BH201A 0.9-1.0	BH201A 0.5-0.6	BH201A 1.5-1.6A	BH201A 1.5-1.6	BH202 0.1-0.2
LocCode							BH201 0.5-0.6	BH201 0.9-1.0A	BH201 0.9-1.0	BH201 1.9-2.0	BH201A 0.9-1.0	BH201A 0.5-0.6	BH201A 1.5-1.6A	BH201A 1.5-1.6	BH202 0.1-0.2
Sample_Depth_Range															
Sampled_Date-Time		29/11/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	27/05/2013	27/05/2013	27/05/2013	27/05/2013	27/05/2013	28/05/2013	28/05/2013	28/05/2013	23/05/2013
Matrix_Description															
Lab_Report_Number		361195	361195	361195	361195	361195	380677	380677	380677	380677	380839	380677	380677	380677	380167

Chem_Group	ChemName	Units	LOR	Health Investigation & Screening Levels (NEPM, 1999) HIL F & HSL F													
BTEX	Benzene	mg/kg	0.1	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1	99,000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1	2700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2	-	<1	<1	<1	<1	<1	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2
	Xylene (o)	mg/kg	0.1	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1
	Xylene Total	mg/kg	0.3	230	<1.5	<1.5	<1.5	<1.5	<1.5	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3
	Naphthalene	mg/kg	0.5	11,000	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	C6-C10 less BTEX (F1)	mg/kg	20	260	-	-	-	-	-	<20	<20	<20	<20	-	<20	<20	<20
Field	pH (Field)	pH Units	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inorganics	Chloride	mg/kg	10	-	-	-	-	-	-	-	-	<10	-	-	-	-	-
	Moisture Content (dried @ 103 °C)	%	0.1	-	-	-	-	-	17	12	9.8	2.3	9.5	2.5	6.5	5.6	9.9
	pH (aqueous extract)	pH Units	0.1	-	-	-	-	-	-	-	-	9.5	-	-	-	-	-
	Sulphate as S	mg/kg	10	-	-	-	-	-	-	-	-	22	-	-	-	-	-
Metals	Arsenic	mg/kg	2	3000	2.8	-	-	-	-	3.6	<2	<2	4.2	-	<2	2.2	2.5
	Cadmium	mg/kg	0.4	900	<0.4	-	-	-	-	<0.4	<0.4	<0.4	<0.4	-	<0.4	<0.4	<0.4
	Chromium	mg/kg	5	3600	60	-	-	-	-	8.9	6.4	6.7	<5	-	6.5	<5	25
	Copper	mg/kg	5	240,000	11	-	-	-	-	23	18	18	6.1	-	12	5	13
	Lead	mg/kg	5	1500	<5	-	-	-	-	9.5	14	17	8.6	-	<5	23	20
	Mercury	mg/kg	0.05	730	<0.05	-	-	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05
	Nickel	mg/kg	5	6000	36	-	-	-	-	9	<5	<5	<5	-	20	<5	130
	Zinc	mg/kg	5	400,000	9.4	-	-	-	-	34	36	34	24	-	22	200	220
PAH	Acenaphthene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Anthracene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1	-	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Benzo(k)fluoranthene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Fluorene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Pyrene	mg/kg	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Total PAHs	mg/kg	1	4000	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5
	Benzo(a)Pyrene TEQ	mg/kg	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH	F2-NAPHTHALENE	mg/kg	50	20,000	-	-	-	-	-	<50	<50	<50	<50	-	<50	<50	<50
	C6 - C9	mg/kg	20	-	<10	<10	<10	<10	<10	<20	<20	<20	<20	-	<20	<20	<20
	C10 - C14	mg/kg	20	20,000	<50	<50	<50	<50	<50	<20	<20	<20	<20	-	<20	<20	<20
	C15 - C28	mg/kg	50	27,000	<100	<100	<100	<100	<100	<50	<50	<50	<50	-	690	<50	83
	C29 - C36	mg/kg	50	38,000	<100	<100	<100	<100	<100	<50	<50	<50	<50	-	2700	<50	230
	C10 - C36 (Sum of total)	mg/kg	50	-	<100	<100	<100	<100	<100	<50	<50	<50	<50	-	3400	<50	310
	C10 - C16	mg/kg	50	-	-	-	-	-	-	<50	<50	<50	<50	-	<50	<50	<50
	C16 - C34	mg/kg	100	27,000	-	-	-	-	-	<100	<100	<100	<100	-	2500	<100	260
	C34 - C40	mg/kg	100	38,000	-	-	-	-	-	<100	<100	<100	<100	-	2300	<100	200
	C6 - C10	mg/kg	20	-	-	-	-	-	-	<20	<20	<20	<20	-	<20	<20	<20
Asbestos		-	-	No Asbestos Detected	-	-	-	-	-	ND	-	-	-	-	ND	-	ND

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for
Commercial/Industrial Uses (HIL D HSL D)

ICC Hotel Development, Darling Harbour, Sydney NSW

Field ID	BH202 0.5-0.6	BH203 0.5-0.6	BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	BH204 0.15-0.2m	BH204 0.8-0.9mA	BH204 0.8-0.9m	BH204 1.2-1.6m	BH204 2.8-3.0mA	BH204 2.8-3.0m	BH205 0.5-0.6	BH205 0.9-1.0	BH205 2.0-2.35	BH206 1.1-1.4
LocCode	BH202 0.5-0.6	BH203 0.5-0.6	BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	BH204 0.15-0.2m	BH204 0.8-0.9mA	BH204 0.8-0.9m	BH204 1.2-1.6m	BH204 2.8-3.0mA	BH204 2.8-3.0m	BH205 0.5-0.6	BH205 0.9-1.0	BH205 2.0-2.35	BH206 1.1-1.4
Sample Depth Range															
Sampled Date-Time	23/05/2013	24/05/2013	27/05/2013	24/05/2013	24/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	16/05/2013	16/05/2013	16/05/2013	27/05/2013
Matrix Description															
Lab Report Number	380167	380366	380839	380366	380366	379021	379021	379021	379021	379021	379021	379367	379367	379367	380839

Chem_Group	ChemName	Units	LOR	Health Investigation & Screening Levels (NEPM, HIL F & HSL F															
BTEX	Benzene	mg/kg	0.1	3	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
	Toluene	mg/kg	0.1	99,000	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
	Ethylbenzene	mg/kg	0.1	2700	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
	Xylene (m & p)	mg/kg	0.2	-	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
	Xylene (o)	mg/kg	0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
	Xylene Total	mg/kg	0.3	230	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-
	Naphthalene	mg/kg	0.5	11,000	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	C6-C10 less BTEX (F1)	mg/kg	20	260	<20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
Field	pH (Field)	pH Units	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inorganics	Chloride	mg/kg	10	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	<10
	Moisture Content (dried @ 103°C)	%	0.1	-	8.3	11	5.3	11	7.3	5.2	6.7	8.2	9.3	19	20	8.5	13	11	7.1
	pH (aqueous extract)	pH Units	0.1	-	-	-	8.5	-	-	-	-	-	-	-	-	-	-	-	8.9
	Sulphate as S	mg/kg	10	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	<10
Metals	Arsenic	mg/kg	2	3000	2.5	<2	-	<2	<2	<2	2.9	3	<2	5.9	2.3	<2	7.4	<2	-
	Cadmium	mg/kg	0.4	900	0.5	<0.4	-	0.5	<0.4	<0.4	0.6	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	-
	Chromium	mg/kg	5	3600	<5	9.3	-	14	<5	<5	<5	<5	9.5	<5	<5	5.2	5.5	-	-
	Copper	mg/kg	5	240,000	33	56	-	63	17	68	27	33	<5	12	8.3	58	11	5.6	-
	Lead	mg/kg	5	1500	35	<5	-	<5	19	19	52	180	11	16	7.7	<5	12	12	-
	Mercury	mg/kg	0.05	730	29	<0.05	-	<0.05	0.29	<0.05	0.06	0.06	<0.05	<0.05	0.23	<0.05	<0.05	<0.05	-
	Nickel	mg/kg	5	6000	41	120	-	100	16	100	7.9	9.6	<5	<5	<5	110	<5	<5	-
	Zinc	mg/kg	5	400,000	140	41	-	44	59	150	220	<5	150	9.2	170	<5	55	8	24
PAH	Acenaphthene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Acenaphthylene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Anthracene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Benzo(a)anthracene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Benzo(a)pyrene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Benzo(b)&(k)fluoranthene	mg/kg	1	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
	Benzo(b)fluoranthene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Benzo(g,h,i)perylene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Benzo(k)fluoranthene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Chrysene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Dibenz(a,h)anthracene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Fluoranthene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Fluorene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Phenanthrene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Pyrene	mg/kg	0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Total PAHs	mg/kg	1	4000	<0.5	<0.5	-	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	-
	Benzo(a)Pyrene TEQ	mg/kg	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH	F2-NAPHTHALENE	mg/kg	50	20,000	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
	C6 - C9	mg/kg	20	-	<20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
	C10 - C14	mg/kg	20	20,000	<20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
	C15 - C28	mg/kg	50	27,000	<50	<50	-	<50	<50	76	<50	<50	<50	<50	<50	<50	<50	<50	-
	C29 - C36	mg/kg	50	38,000	55	<50	-	<50	<50	160	<50	<50	<50	<50	<50	<50	<50	<50	-
	C10 - C36 (Sum of total)	mg/kg	50	-	55	<50	-	<50	<50	240	<50	<50	<50	<50	<50	<50	<50	<50	-
	C10 - C16	mg/kg	50	-	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
	C16 - C34	mg/kg	100	27,000	<100	<100	-	<100	<100	220	<100	<100	<100	<100	<100	<100	<100	<100	-
	C34 - C40	mg/kg	100	38,000	<100	<100	-	<100	<100	110	<100	<100	<100	<100	<100	<100	<100	<100	-
Asbestos	C6 - C10	mg/kg	20	-	<20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
				No Asbestos Detected	-	ND	-	-	-	-	-	-	-	-	-	ND	-	-	-

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for
Commercial/Industrial Uses (HIL D HSL D)

ICC Hotel Development, Darling Harbour, Sydney NSW

Field ID	BH207 0.4-0.5m	BH207 1.5-1.92m	BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m	BH208 DUP 3-3.1mA	BH209 0.2-0.3	DUP1	DUP4	TB130513-1	TS130513-1
LocCode	BH207 0.4-0.5m	BH207 1.5-1.92m	BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m	BH208 DUP 3-3.1mA	BH209 0.2-0.3	DUP1	DUP4	TB130513-1	TS130513-1
Sample Depth Range											
Sampled Date-Time	14/05/2013	14/05/2013	21/05/2013	21/05/2013	21/05/2013	21/05/2013	28/05/2013	14/05/2013	23/05/2013	13/05/2013	13/05/2013
Matrix Description											
Lab Report Number	379182	379182	380011	380011	380011	380011	380677	379021	380167	379021	379021

Chem_Group	ChemName	Units	LOR	Health Investigation & Screening Levels (NEPM, HIL F & HSL F											
BTEX	Benzene	mg/kg	0.1	3	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	111%
	Toluene	mg/kg	0.1	99,000	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	111%
	Ethylbenzene	mg/kg	0.1	2700	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	113%
	Xylene (m & p)	mg/kg	0.2	-	<0.2	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	113%
	Xylene (o)	mg/kg	0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	114%
	Xylene Total	mg/kg	0.3	230	<0.3	<0.3	< 0.3	< 0.3	< 0.3	< 0.3	<0.3	<0.3	<0.3	<0.3	113%
	Naphthalene	mg/kg	0.5	11,000	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	C6-C10 less BTEX (F1)	mg/kg	20	260	<20	<20	< 20	< 20	< 20	< 20	<20	<20	<20	-	-
Field	pH (Field)	pH Units	0.1	-	-	-	-	-	-	-	-	-	-	-	-
Inorganics	Chloride	mg/kg	10	-	-	-	-	-	-	-	-	-	-	-	-
	Moisture Content (dried @ 103 °C)	%	0.1	-	5.5	5.8	6.4	4.8	20	19	9.2	-	9.9	-	-
	pH (aqueous extract)	pH Units	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Sulphate as S	mg/kg	10	-	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2	3000	3.2	<2	4.4	5.3	4.5	4.1	<2	<2	5.5	-	-
	Cadmium	mg/kg	0.4	900	<0.4	<0.4	< 0.4	< 0.4	< 0.4	< 0.4	<0.4	<0.4	0.5	-	-
	Chromium	mg/kg	5	3600	6.7	8.8	< 5	< 5	< 5	< 5	9.3	<5	<5	-	-
	Copper	mg/kg	5	240,000	31	5.7	24	<5	< 5	5.9	28	7.8	37	-	-
	Lead	mg/kg	5	1500	17	<5	14	< 5	< 5	< 5	<5	9.8	41	-	-
	Mercury	mg/kg	0.05	730	0.07	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	35	-	-
	Nickel	mg/kg	5	6000	23	<5	9.6	< 5	< 5	< 5	49	<5	50	-	-
	Zinc	mg/kg	5	400,000	28	<5	40	7.5	270	250	31	9.9	160	-	-
PAH	Acenaphthene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Acenaphthylene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Anthracene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(a)anthracene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(a)pyrene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(b)&(k)fluoranthene	mg/kg	1	-	<1	<1	<1	<1	<1	<1	-	<1	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.5	-	-	-	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	-	<0.5	-	-
	Benzo(g,h,i)perylene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(k)fluoranthene	mg/kg	0.5	-	-	-	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	-	<0.5	-	-
	Chrysene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Dibenz(a,h)anthracene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Fluoranthene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Fluorene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Phenanthrene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Pyrene	mg/kg	0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	-	-
	Total PAHs	mg/kg	1	4000	<1	<1	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<1	<0.5	-	-
	Benzo(a)Pyrene TEQ	mg/kg	-	40	-	-	-	-	-	-	-	-	-	-	-
TPH	F2-NAPHTHALENE	mg/kg	50	20,000	<50	<50	< 50	< 50	< 50	< 50	<50	<50	<50	-	-
	C6 - C9	mg/kg	20	-	<20	<20	< 20	< 20	< 20	< 20	<20	<20	<20	<20	111%
	C10 - C14	mg/kg	20	20,000	<20	<20	< 20	< 20	< 20	< 20	<20	<20	<20	-	-
	C15 - C28	mg/kg	50	27,000	<50	<50	< 50	< 50	< 50	< 50	180	<50	<50	-	-
	C29 - C36	mg/kg	50	38,000	<50	<50	< 50	< 50	< 50	< 50	180	<50	<50	-	-
	C10 - C36 (Sum of total)	mg/kg	50	-	<50	<50	< 50	< 50	< 50	< 50	360	<50	<50	-	-
	C10 - C16	mg/kg	50	-	<50	<50	< 50	< 50	< 50	< 50	<50	<50	<50	-	-
	C16 - C34	mg/kg	100	27,000	<100	<100	< 100	< 100	< 100	< 100	330	<100	<100	-	-
	C34 - C40	mg/kg	100	38,000	<100	<100	< 100	< 100	< 100	< 100	150	<100	<100	-	-
	C6 - C10	mg/kg	20	-	<20	<20	< 20	< 20	< 20	< 20	<20	<20	<20	-	-
Asbestos		-	-	No Asbestos Detected	ND	-	ND	-	-	-	ND	-	-	-	-

Table 2
Soil Analytical Results - Comparison Against TPH Management Limits
ICC Hotel Development, Darling Harbour, Sydney NSW

Field ID					NBH1 0.5-0.6	NBH1 1.5-1.9	BH101A (0.12-0.22m)	BH101A (0.5-0.6m)	BH101A (0.5-0.6m) A	BH101A (1.0-1.1m)	BH102 (0.5-0.6m)	BH102 (0.5-0.6m) A	BH102 (0.8-0.9m)	BH103 (0.12-0.22m)	BH103 (0.12-0.22m) A	BH103 (0.5-0.6m)
LocCode					NBH1 0.5-0.6	NBH1 1.5-1.9										
Sample Depth Range																
Sampled Date-Time					14/04/2012	14/04/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	3/12/2012	3/12/2012	3/12/2012	29/11/2012	29/11/2012	29/11/2012
Matrix Description																
Lab Report Number					SE107556-1	SE107556-1	361385	361385	361385	361385	361703	361703	361703	361195	361195	361195
Chem_Group	ChemName	Units	LOR	Management Limits (NEPM 1999)												
TPH	F1 - C6-C10 less BTEX	mg/kg	20	700	-	-	-	-	-	-	-	-	-	-	-	-
	F2-C10-C16 less NAPHTHALENE	mg/kg	50	1000	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	3500	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	10,000	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

Table 2
Soil Analytical Results - Comparison Against TPH Management Limits
ICC Hotel Development, Darling Harbour, Sydney NSW

Field ID					BH103 (1.0-1.1m)	BH103 (1.5-1.6m)	BH103 (1.5-1.6m) A	BH103 (2.5-2.6m)	BH103 (2.85-3.2m)	BH201 0.5-0.6	BH201 0.9-1.0A	BH201 0.9-1.0	BH201 1.9-2.0	BH201A 0.9-1.0	BH201A 0.5-0.6	BH201A 1.5-1.6A	BH201A 1.5-1.6	BH202 0.1-0.2
LocCode										BH201 0.5-0.6	BH201 0.9-1.0A	BH201 0.9-1.0	BH201 1.9-2.0	BH201A 0.9-1.0	BH201A 0.5-0.6	BH201A 1.5-1.6A	BH201A 1.5-1.6	BH202 0.1-0.2
Sample Depth Range																		
Sampled Date-Time					29/11/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	27/05/2013	27/05/2013	27/05/2013	27/05/2013	27/05/2013	28/05/2013	28/05/2013	28/05/2013	23/05/2013
Matrix Description																		
Lab Report Number					361195	361195	361195	361195	361195	380677	380677	380677	380677	380839	380677	380677	380677	380167
Chem_Group	ChemName	Units	LOR	Management Limits (NEPM 1999)														
TPH	F1 - C6-C10 less BTEX	mg/kg	20	700	-	-	-	-	-	<20	<20	<20	<20	-	<20	<20	<20	<20
	F2-C10-C16 less NAPHTHALENE	mg/kg	50	1000	-	-	-	-	-	<50	<50	<50	<50	-	<50	<50	<50	<50
	C16 - C34	mg/kg	100	3500	-	-	-	-	-	<100	<100	<100	<100	-	2500	<100	<100	260
	C34 - C40	mg/kg	100	10,000	-	-	-	-	-	<100	<100	<100	<100	-	2300	<100	<100	200

Notes:

Table 2
Soil Analytical Results - Comparison Against TPH Management Limits
ICC Hotel Development, Darling Harbour, Sydney NSW

Field ID	BH202 0.5-0.6	BH203 0.5-0.6	BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	BH204 0.15-0.2m	BH204 0.8-0.9mA	BH204 0.8-0.9m	BH204 1.2-1.6m	BH204 2.8-3.0mA	BH204 2.8-3.0m	BH205 0.5-0.6	BH205 0.9-1.0	BH205 2.0-2.35	BH206 1.1-1.4
LocCode	BH202 0.5-0.6	BH203 0.5-0.6	BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	BH204 0.15-0.2m	BH204 0.8-0.9mA	BH204 0.8-0.9m	BH204 1.2-1.6m	BH204 2.8-3.0mA	BH204 2.8-3.0m	BH205 0.5-0.6	BH205 0.9-1.0	BH205 2.0-2.35	BH206 1.1-1.4
Sample Depth Range															
Sampled Date-Time	23/05/2013	24/05/2013	27/05/2013	24/05/2013	24/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	16/05/2013	16/05/2013	16/05/2013	27/05/2013
Matrix Description															
Lab Report Number	380167	380366	380839	380366	380366	379021	379021	379021	379021	379021	379021	379367	379367	379367	380839

Chem_Group	ChemName	Units	LOR	Management Limits (NEPM 1999)														
TPH	F1 - C6-C10 less BTEX	mg/kg	20	700	<20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
	F2-C10-C16 less NAPHTHALENE	mg/kg	50	1000	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
	C16 - C34	mg/kg	100	3500	<100	<100	-	<100	<100	220	<100	<100	<100	<100	<100	<100	<100	-
	C34 - C40	mg/kg	100	10,000	<100	<100	-	<100	<100	110	<100	<100	<100	<100	<100	<100	<100	-

Notes:

Table 2
Soil Analytical Results - Comparison Against TPH Management Limits
ICC Hotel Development, Darling Harbour, Sydney NSW

Field ID	BH207 0.4-0.5m	BH207 1.5-1.92m	BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m	BH208 DUP 3-3.1mA	BH209 0.2-0.3	DUP1	DUP4	TB130513-1	TS130513-1
LocCode	BH207 0.4-0.5m	BH207 1.5-1.92m	BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m	BH208 DUP 3-3.1mA	BH209 0.2-0.3	DUP1	DUP4	TB130513-1	TS130513-1
Sample Depth Range											
Sampled Date-Time	14/05/2013	14/05/2013	21/05/2013	21/05/2013	21/05/2013	21/05/2013	28/05/2013	14/05/2013	23/05/2013	13/05/2013	13/05/2013
Matrix Description											
Lab Report Number	379182	379182	380011	380011	380011	380011	380677	379021	380167	379021	379021

Chem_Group	ChemName	Units	LOR	Management Limits (NEPM 1999)											
TPH	F1 - C6-C10 less BTEX	mg/kg	20	700	<20	<20	< 20	< 20	< 20	< 20	<20	<20	<20	-	-
	F2-C10-C16 less NAPHTHALENE	mg/kg	50	1000	<50	<50	< 50	< 50	< 50	< 50	<50	<50	<50	-	-
	C16 - C34	mg/kg	100	3500	<100	<100	< 100	< 100	< 100	< 100	330	<100	<100	-	-
	C34 - C40	mg/kg	100	10,000	<100	<100	< 100	< 100	< 100	< 100	150	<100	<100	-	-

Notes:

Table 3
Soil Analytical Results - Comparison of Primary Duplicate Samples
ICC Hotel Development, Darling Harbour, Sydney NSW

Field ID	BH202 0.5-0.6	DUP4	RPD %	BH204 1.2-1.6m	DUP1	RPD %
LocCode	BH202 0.5-0.6	DUP4		BH204 1.2-1.6m	DUP1	
Sample Depth Range						
Sampled Date-Time	23/05/2013	23/05/2013		14/05/2013	14/05/2013	
Matrix Description						
Lab Report Number	380167	380167		379021	379021	

Chem_Group	ChemName	Units	LOR						
BTEX	Benzene	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1	-
	Toluene	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1	-
	Ethylbenzene	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1	-
	Xylene (m & p)	mg/kg	0.2	<0.2	<0.2	-	<0.2	<0.2	-
	Xylene (o)	mg/kg	0.1	<0.1	<0.1	-	<0.1	<0.1	-
	Xylene Total	mg/kg	0.3	<0.3	<0.3	-	<0.3	<0.3	-
	Naphthalene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
Metals	C6-C10 less BTEX (F1)	mg/kg	20	<20	<20	-	<20	<20	-
	Arsenic	mg/kg	2	2.5	5.5	75.0	<2	<2	-
	Cadmium	mg/kg	0.4	0.5	0.5	0.0	<0.4	<0.4	-
	Chromium	mg/kg	5	<5	<5	-	<5	<5	-
	Copper	mg/kg	5	33	37	11.4	<5	7.8	-
	Lead	mg/kg	5	35	41	15.8	11	9.8	11.5
	Mercury	mg/kg	0.05	29	35	18.8	<0.05	<0.05	-
PAH	Nickel	mg/kg	5	41	50	19.8	<5	<5	-
	Zinc	mg/kg	5	140	160	13.3	<5	9.9	-
	Acenaphthene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Acenaphthylene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Anthracene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(a)anthracene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(a)pyrene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(b)&(k)fluoranthene	mg/kg	1	-	-	-	<1	<1	-
	Benzo(b)fluoranthene	mg/kg	0.5	<0.5	<0.5	-	<0.5	-	-
	Benzo(g,h,i)perylene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Benzo(k)fluoranthene	mg/kg	0.5	<0.5	<0.5	-	<0.5	-	-
	Chrysene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Dibenz(a,h)anthracene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Fluoranthene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Fluorene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Phenanthrene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Pyrene	mg/kg	0.5	<0.5	<0.5	-	<0.5	<0.5	-
	Total PAHs	mg/kg	1	<0.5	<0.5	-	<1	<1	-
	Benzo(a)Pyrene TEQ	mg/kg	-	-	-	-	-	-	-
TPH	F2-NAPHTHALENE	mg/kg	50	<50	<50	-	<50	<50	-
	C6 - C9	mg/kg	20	<20	<20	-	<20	<20	-
	C10 - C14	mg/kg	20	<20	<20	-	<20	<20	-
	C15 - C28	mg/kg	50	<50	<50	-	<50	<50	-
	C29 - C36	mg/kg	50	55	<50	-	<50	<50	-
	C10 - C36 (Sum of total)	mg/kg	50	55	<50	-	<50	<50	-
	C10 - C16	mg/kg	50	<50	<50	-	<50	<50	-
	C16 - C34	mg/kg	100	<100	<100	-	<100	<100	-
	C34 - C40	mg/kg	100	<100	<100	-	<100	<100	-
	C6 - C10	mg/kg	20	<20	<20	-	<20	<20	-

Table 4
Analytical Results of Trip Blank and Trip Spike Samples Collected During Soil Sampling

ICC Hotel Development, Darling Harbour, Sydney NSW

	TB130513-1	TS130513-1
LocCode	TB130513-1	TS130513-1
Sample_Depth_Range		
Sampled_Date-Time	13/05/2013	13/05/2013
Matrix_Description		
Lab_Report_Number	379021	379021

Chem_Group	ChemName	Units	LOR		
BTEX	Benzene	mg/kg	0.1	<0.1	111%
	Toluene	mg/kg	0.1	<0.1	111%
	Ethylbenzene	mg/kg	0.1	<0.1	113%
	Xylene (m & p)	mg/kg	0.2	<0.2	113%
	Xylene (o)	mg/kg	0.1	<0.1	114%
	Xylene Total	mg/kg	0.3	<0.3	113%
	Naphthalene	mg/kg	0.5	-	-
	C6-C10 less BTEX (F1)	mg/kg	20	-	-
Field	pH (Field)	pH Units	0.1	-	-
Inorganics	Chloride	mg/kg	10	-	-
	Moisture Content (dried @ 103°C)	%	0.1	-	-
	pH (aqueous extract)	pH Units	0.1	-	-
	Sulphate as S	mg/kg	10	-	-
Metals	Arsenic	mg/kg	2	-	-
	Cadmium	mg/kg	0.4	-	-
	Chromium	mg/kg	5	-	-
	Copper	mg/kg	5	-	-
	Lead	mg/kg	5	-	-
	Mercury	mg/kg	0.05	-	-
	Nickel	mg/kg	5	-	-
	Zinc	mg/kg	5	-	-
PAH	Acenaphthene	mg/kg	0.5	-	-
	Acenaphthylene	mg/kg	0.5	-	-
	Anthracene	mg/kg	0.5	-	-
	Benzo(a)anthracene	mg/kg	0.5	-	-
	Benzo(a)pyrene	mg/kg	0.5	-	-
	Benzo(b)&(k)fluoranthene	mg/kg	1	-	-
	Benzo(b)fluoranthene	mg/kg	0.5	-	-
	Benzo(g,h,i)perylene	mg/kg	0.5	-	-
	Benzo(k)fluoranthene	mg/kg	0.5	-	-
	Chrysene	mg/kg	0.5	-	-
	Dibenz(a,h)anthracene	mg/kg	0.5	-	-
	Fluoranthene	mg/kg	0.5	-	-
	Fluorene	mg/kg	0.5	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	-	-
	Phenanthrene	mg/kg	0.5	-	-
	Pyrene	mg/kg	0.5	-	-
	Total PAHs	mg/kg	1	-	-
	Benzo(a)Pyrene TEQ	mg/kg	-	-	-
TPH	F2-NAPHTHALENE	mg/kg	50	-	-
	C6 - C9	mg/kg	20	<20	111%
	C10 - C14	mg/kg	20	-	-
	C15 - C28	mg/kg	50	-	-
	C29 - C36	mg/kg	50	-	-
	C10 - C36 (Sum of total)	mg/kg	50	-	-
	C10 - C16	mg/kg	50	-	-
	C16 - C34	mg/kg	100	-	-
	C34 - C40	mg/kg	100	-	-
	C6 - C10	mg/kg	20	-	-
Asbestos		-	-	-	-

Table 5
Preliminary Waste Classification Assessment
ICC Hotel Development, Darling Harbour, Sydney NSW

Field ID	NBH1 0.5-0.6	NBH1 1.5-1.9	BH101A (0.12-0.22m)	BH101A (0.5-0.6m)	BH101A (0.5-0.6m) A	BH101A (1.0-1.1m)	BH102 (0.5-0.6m)	BH102 (0.5-0.6m) A
LocCode	NBH1 0.5-0.6	NBH1 1.5-1.9						
Sample Depth Range								
Sampled Date-Time	14/04/2012	14/04/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	3/12/2012	3/12/2012
Matrix Description								
Lab Report Number	SE107556-1	SE107556-1	361385	361385	361385	361385	361703	361703

Chem_Group	ChemName	Units	LOR	NSW 2008 General Solid Waste - Soil without TCLP	NSW 2008 General Solid Waste - Soil with TCLP	NSW 2008 General Solid Waste - TCLP	NSW 2008 Restricted Solid Waste Soil without TCLP	NSW 2008 Restricted Solid Waste - Soil With TCLP								
BTEX	Benzene	mg/kg	0.1	10	18		40	72	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	288	518		1152	2073	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1	600	1080		2400	4320	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2						<0.2	<0.2	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3	1000	1800		4000	7200	<0.3	<0.3	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
	Naphthalene	mg/kg	0.5						-	-						
	C6-C10 less BTEX (F1)	mg/kg	20						-	-						
Field	pH (Field)	pH Units	0.1						-	-						
Inorganics	Chloride	mg/kg	10						-	-	-	-	-	-	-	-
	Moisture Content (dried @ 103 °C)	%	0.1						-	-	-	-	-	-	-	-
	pH (aqueous extract)	pH Units	0.1						-	-	-	-	-	-	-	-
	Sulphate as S	mg/kg	10						-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2	100	500		400	2000	<3	<3	<2	2.5	4.8	2.5	2.2	<2
	Cadmium	mg/kg	0.4	20	100		80	400	0.5	<0.3	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
	Chromium	mg/kg	5						11	3.6	<5	<5	<5	7.2	<5	<5
	Copper	mg/kg	5						58	2.5	52	27	60	8.7	73	80
	Lead	mg/kg	5	100	1500		400	6000	24	7	<5	13	52	20	10	10
	Lead TCLP Leachate	mg/L	0.01			5			-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4	50		16	200	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Mercury TCLP Leachate	mg/L	0.001			0.2			-	-	-	-	-	-	-	-
	Nickel	mg/kg	5	40	1050		160	4200	92	1	110	48	89	5.5	110	130
	Nickel TCLP Leachate	mg/L	0.05			2			-	-	-	-	-	-	-	-
	Zinc	mg/kg	5						79	19	51	42	260	31	70	71
PAH	Acenaphthene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	10		3.2	23	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1						<0.1	<0.1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(k)fluoranthene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5						<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	1		200			800	<0.8	<0.8	<1	<1	<1	<1	<1	<1
TPH	F2-NAPHTHALENE	mg/kg	50						-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	20		650			2600	<20	<20	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20						<20	<20	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50						<50	<50	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50						<50	<50	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	50		10000			40000	<120	<120	<100	<100	<100	<100	<100	<100
	C10 - C16	mg/kg	50						-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100						-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100						-	-	-	-	-	-	-	-
Asbestos	C6 - C10	mg/kg	20						-	-	-	-	-	-	-	-
		-	-						-	-	ND	-	-	-	-	ND

Table 5
Preliminary Waste Classification Assessment
ICC Hotel Development, Darling Harbour, Sydney NSW

									Field ID	BH102 (0.8-0.9m)	BH103 (0.12-0.22m)	BH103 (0.12-0.22m) A	BH103 (0.5-0.6m)	BH103 (1.0-1.1m)	BH103 (1.5-1.6m)	BH103 (1.5-1.6m) A	BH103 (2.5-2.6m)
									LocCode								
									Sample Depth Range								
									Sampled Date-Time	3/12/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012	29/11/2012
									Matrix Description								
									Lab Report Number	361703	361195	361195	361195	361195	361195	361195	361195
Chem_Group	ChemName	Units	LOR	NSW 2008 General Solid Waste - Soil without TCLP	NSW 2008 General Solid Waste - Soil with TCLP	NSW 2008 General Solid Waste - TCLP	NSW 2008 Restricted Solid Waste Soil without TCLP	NSW 2008 Restricted Solid Waste - Soil With TCLP									
BTEX	Benzene	mg/kg	0.1	10	18		40	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	288	518		1152	2073	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1	600	1080		2400	4320	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2						<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.1						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3	1000	1800		4000	7200	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
	Naphthalene	mg/kg	0.5														
	C6-C10 less BTEX (F1)	mg/kg	20														
Field	pH (Field)	pH Units	0.1														
Inorganics	Chloride	mg/kg	10						-	-	-	-	-	-	-	-	-
	Moisture Content (dried @ 103 °C)	%	0.1						-	-	-	-	-	-	-	-	-
	pH (aqueous extract)	pH Units	0.1						-	-	-	-	-	-	-	-	-
	Sulphate as S	mg/kg	10						-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2	100	500		400	2000	-	<2	<2	<2	2.8	-	-	-	-
	Cadmium	mg/kg	0.4	20	100		80	400	-	<0.4	<0.4	<0.4	<0.4	-	-	-	-
	Chromium	mg/kg	5						-	<5	<5	<5	60	-	-	-	-
	Copper	mg/kg	5						-	75	58	64	11	-	-	-	-
	Lead	mg/kg	5	100	1500		400	6000	-	<5	<5	<5	<5	-	-	-	-
	Lead TCLP Leachate	mg/L	0.01			5			-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4	50		16	200	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-
	Mercury TCLP Leachate	mg/L	0.001			0.2			-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	5	40	1050		160	4200	-	110	100	120	36	-	-	-	-
	Nickel TCLP Leachate	mg/L	0.05			2			-	-	-	-	-	-	-	-	-
Zinc	mg/kg	5						-	50	45	46	9.4	-	-	-	-	
PAH	Acenaphthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	10		3.2	23	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1						<1	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(k)fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	1		200			800	<1	<1	<1	<1	<1	<1	<1	<1	<1
	TPH	F2-NAPHTHALENE	mg/kg	50						-	-	-	-	-	-	-	-
C6 - C9		mg/kg	20		650			2600	<10	<10	<10	<10	<10	<10	<10	<10	<10
C10 - C14		mg/kg	20						<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C28		mg/kg	50						<100	<100	<100	<100	<100	<100	<100	<100	<100
C29 - C36		mg/kg	50						<100	<100	<100	<100	<100	<100	<100	<100	<100
C10 - C36 (Sum of total)		mg/kg	50		10000			40000	<100	<100	<100	<100	<100	<100	<100	<100	<100
C10 - C16		mg/kg	50						-	-	-	-	-	-	-	-	-
C16 - C34		mg/kg	100						-	-	-	-	-	-	-	-	-
C34 - C40		mg/kg	100						-	-	-	-	-	-	-	-	-
Asbestos	C6 - C10	mg/kg	20						-	ND	-	ND	-	-	-	-	-

Table 5
Preliminary Waste Classification Assessment
ICC Hotel Development, Darling Harbour, Sydney NSW

Field ID	BH103 (2.85-3.2m)	BH201 0.5-0.6	BH201 0.9-1.0A	BH201 0.9-1.0	BH201 1.9-2.0	BH201A 0.9-1.0	BH201A 0.5-0.6	BH201A 1.5-1.6A	BH201A 1.5-1.6	BH202 0.1-0.2
LocCode		BH201 0.5-0.6	BH201 0.9-1.0A	BH201 0.9-1.0	BH201 1.9-2.0	BH201A 0.9-1.0	BH201A 0.5-0.6	BH201A 1.5-1.6A	BH201A 1.5-1.6	BH202 0.1-0.2
Sample Depth Range										
Sampled Date-Time	29/11/2012	27/05/2013	27/05/2013	27/05/2013	27/05/2013	27/05/2013	28/05/2013	28/05/2013	28/05/2013	23/05/2013
Matrix Description										
Lab Report Number	361195	380677	380677	380677	380677	380839	380677	380677	380677	380167

Chem_Group	ChemName	Units	LOR	NSW 2008 General Solid Waste - Soil without TCLP	NSW 2008 General Solid Waste - Soil with TCLP	NSW 2008 General Solid Waste - TCLP	NSW 2008 Restricted Solid Waste Soil without TCLP	NSW 2008 Restricted Solid Waste - Soil With TCLP										
BTEX	Benzene	mg/kg	0.1	10	18		40	72	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1	288	518		1152	2073	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1	600	1080		2400	4320	<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2						<1	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
	Xylene (o)	mg/kg	0.1						<0.5	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1
	Xylene Total	mg/kg	0.3	1000	1800		4000	7200	<1.5	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3
	Naphthalene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	C6-C10 less BTEX (F1)	mg/kg	20							<20	<20	<20	<20	-	<20	<20	<20	<20
Field	pH (Field)	pH Units	0.1							-	-	-	-	-	-	-	-	-
Inorganics	Chloride	mg/kg	10						-	-	-	-	-	<10	-	-	-	-
	Moisture Content (dried @ 103 °C)	%	0.1						-	17	12	9.8	2.3	9.5	2.5	6.5	5.6	9.9
	pH (aqueous extract)	pH Units	0.1						-	-	-	-	-	9.5	-	-	-	-
	Sulphate as S	mg/kg	10						-	-	-	-	-	22	-	-	-	-
Metals	Arsenic	mg/kg	2	100	500		400	2000	-	3.6	<2	<2	4.2	-	<2	2.2	2.5	<2
	Cadmium	mg/kg	0.4	20	100		80	400	-	<0.4	<0.4	<0.4	<0.4	-	<0.4	<0.4	<0.4	<0.4
	Chromium	mg/kg	5						-	8.9	6.4	6.7	<5	-	6.5	<5	<5	25
	Copper	mg/kg	5						-	23	18	18	6.1	-	12	5	13	66
	Lead	mg/kg	5	100	1500		400	6000	-	9.5	14	17	8.6	-	<5	23	20	5.8
	Lead TCLP Leachate	mg/L	0.01			5			-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4	50		16	200	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
	Mercury TCLP Leachate	mg/L	0.001			0.2			-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	5	40	1050		160	4200	-	9	<5	<5	<5	-	20	<5	<5	130
	Nickel TCLP Leachate	mg/L	0.05			2			-	-	-	-	-	-	-	-	-	0.05
	Zinc	mg/kg	5						-	34	36	34	24	-	22	200	220	60
PAH	Acenaphthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	10		3.2	23	<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1						<1	-	-	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Benzo(k)fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	1		200			800	<1	<0.5	<0.5	<0.5	<0.5	-	<5	<0.5	<0.5	<0.5
TPH	F2-NAPHTHALENE	mg/kg	50						-	<50	<50	<50	<50	-	<50	<50	<50	<50
	C6 - C9	mg/kg	20		650			2600	<10	<20	<20	<20	<20	-	<20	<20	<20	<20
	C10 - C14	mg/kg	20						<50	<20	<20	<20	<20	-	<20	<20	<20	<20
	C15 - C28	mg/kg	50						<100	<50	<50	<50	<50	-	690	<50	<50	83
	C29 - C36	mg/kg	50						<100	<50	<50	<50	<50	-	2700	<50	<50	230
	C10 - C36 (Sum of total)	mg/kg	50		10000			40000	<100	<50	<50	<50	<50	-	3400	<50	<50	310
	C10 - C16	mg/kg	50						-	<50	<50	<50	<50	-	<50	<50	<50	<50
	C16 - C34	mg/kg	100						-	<100	<100	<100	<100	-	2500	<100	<100	260
	C34 - C40	mg/kg	100						-	<100	<100	<100	<100	-	2300	<100	<100	200
	C6 - C10	mg/kg	20						-	<20	<20	<20	<20	-	<20	<20	<20	<20
Asbestos		-	-						-	ND	-	-	-	-	ND	-	-	ND

Table 5
Preliminary Waste Classification Assessment
ICC Hotel Development, Darling Harbour, Sydney NSW

Field ID	BH202 0.5-0.6	BH203 0.5-0.6	BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	BH204 0.15-0.2m	BH204 0.8-0.9mA	BH204 0.8-0.9m	BH204 1.2-1.6m	BH204 2.8-3.0mA
LocCode	BH202 0.5-0.6	BH203 0.5-0.6	BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	BH204 0.15-0.2m	BH204 0.8-0.9mA	BH204 0.8-0.9m	BH204 1.2-1.6m	BH204 2.8-3.0mA
Sample Depth Range										
Sampled Date-Time	23/05/2013	24/05/2013	27/05/2013	24/05/2013	24/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013	14/05/2013
Matrix Description										
Lab Report Number	380167	380366	380839	380366	380366	379021	379021	379021	379021	379021

Chem_Group	ChemName	Units	LOR	NSW 2008 General Solid Waste - Soil without TCLP	NSW 2008 General Solid Waste - Soil with TCLP	NSW 2008 General Solid Waste - TCLP	NSW 2008 Restricted Solid Waste Soil without TCLP	NSW 2008 Restricted Solid Waste - Soil With TCLP										
BTEX	Benzene	mg/kg	0.1	10	18		40	72	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1	288	518		1152	2073	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1	600	1080		2400	4320	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2						<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Xylene (o)	mg/kg	0.1						<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Xylene Total	mg/kg	0.3	1000	1800		4000	7200	<0.3	<0.3	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Naphthalene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	C6-C10 less BTEX (F1)	mg/kg	20						<20	<20	-	<20	<20	<20	<20	<20	<20	<20
Field	pH (Field)	pH Units	0.1						-	-	-	-	-	-	-	-	-	-
Inorganics	Chloride	mg/kg	10						-	-	<10	-	-	-	-	-	-	-
	Moisture Content (dried @ 103°C)	%	0.1						8.3	11	5.3	11	7.3	5.2	6.7	8.2	9.3	19
	pH (aqueous extract)	pH Units	0.1						-	-	8.5	-	-	-	-	-	-	-
	Sulphate as S	mg/kg	10						-	-	<10	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2	100	500		400	2000	2.5	<2	-	<2	<2	<2	2.9	3	<2	5.9
	Cadmium	mg/kg	0.4	20	100		80	400	0.5	<0.4	-	0.5	<0.4	<0.4	0.6	<0.4	<0.4	<0.4
	Chromium	mg/kg	5						<5	9.3	-	14	<5	<5	<5	<5	<5	9.5
	Copper	mg/kg	5						33	56	-	63	17	68	27	33	<5	12
	Lead	mg/kg	5	100	1500		400	6000	35	<5	-	<5	19	19	52	180	11	16
	Lead TCLP Leachate	mg/L	0.01			5			-	-	-	-	-	-	-	<0.01	-	-
	Mercury	mg/kg	0.05	4	50		16	200	29	<0.05	-	<0.05	0.29	<0.05	0.06	0.06	<0.05	<0.05
	Mercury TCLP Leachate	mg/L	0.001			0.2	-		0.006	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	5	40	1050		160	4200	41	120	-	100	16	100	7.9	9.6	<5	<5
	Nickel TCLP Leachate	mg/L	0.05			2			<0.05	<0.05	-	-	-	0.13		-	-	-
	Zinc	mg/kg	5						140	41	-	44	59	150	170	220	<5	9.2
	Acenaphthene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PAH	Acenaphthylene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	10		3.2	23	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1						-	-	-	-	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(g,h,i)perylene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(k)fluoranthene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	1		200			800	<0.5	<0.5	-	<0.5	<0.5	<1	<1	<1	<1	<1
TPH	F2-NAPHTHALENE	mg/kg	50						<50	<50	-	<50	<50	<50	<50	<50	<50	<50
	C6 - C9	mg/kg	20		650			2600	<20	<20	-	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20						<20	<20	-	<20	<20	<20	<20	<20	<20	<20
	C15 - C28	mg/kg	50						<50	<50	-	<50	<50	76	<50	<50	<50	<50
	C29 - C36	mg/kg	50						55	<50	-	<50	<50	160	<50	<50	<50	<50
	C10 - C36 (Sum of total)	mg/kg	50		10000			40000	55	<50	-	<50	<50	240	<50	<50	<50	<50
	C10 - C16	mg/kg	50						<50	<50	-	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100						<100	<100	-	<100	<100	220	<100	<100	<100	<100
	C34 - C40	mg/kg	100						<100	<100	-	<100	<100	110	<100	<100	<100	<100
	C6 - C10	mg/kg	20						<20	<20	-	<20	<20	<20	<20	<20	<20	<20
Asbestos		-	-						-	ND	-	-	-	-	-	-	-	-

Table 5
Preliminary Waste Classification Assessment
ICC Hotel Development, Darling Harbour, Sydney NSW

Field ID	BH204 2.8-3.0m	BH205 0.5-0.6	BH205 0.9-1.0	BH205 2.0-2.35	BH206 1.1-1.4	BH207 0.4-0.5m	BH207 1.5-1.92m	BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m
LocCode	BH204 2.8-3.0m	BH205 0.5-0.6	BH205 0.9-1.0	BH205 2.0-2.35	BH206 1.1-1.4	BH207 0.4-0.5m	BH207 1.5-1.92m	BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m
Sample Depth Range										
Sampled Date-Time	14/05/2013	16/05/2013	16/05/2013	16/05/2013	27/05/2013	14/05/2013	14/05/2013	21/05/2013	21/05/2013	21/05/2013
Matrix Description										
Lab Report Number	379021	379367	379367	379367	380839	379182	379182	380011	380011	380011

Chem_Group	ChemName	Units	LOR	NSW 2008 General Solid Waste - Soil without TCLP	NSW 2008 General Solid Waste - Soil with TCLP	NSW 2008 General Solid Waste - TCLP	NSW 2008 Restricted Solid Waste Soil without TCLP	NSW 2008 Restricted Solid Waste - Soil With TCLP										
BTEX	Benzene	mg/kg	0.1	10	18		40	72	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.1
	Toluene	mg/kg	0.1	288	518		1152	2073	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.1
	Ethylbenzene	mg/kg	0.1	600	1080		2400	4320	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.1
	Xylene (m & p)	mg/kg	0.2						<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	< 0.2	< 0.2	< 0.2
	Xylene (o)	mg/kg	0.1						<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	< 0.1	< 0.1	< 0.1
	Xylene Total	mg/kg	0.3	1000	1800		4000	7200	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	< 0.3	< 0.3	< 0.3
	Naphthalene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	C6-C10 less BTEX (F1)	mg/kg	20						<20	<20	<20	<20	-	<20	<20	< 20	< 20	< 20
Field	pH (Field)	pH Units	0.1						-	-	-	-	-	-	-	-	-	-
Inorganics	Chloride	mg/kg	10						-	-	-	-	<10	-	-	-	-	-
	Moisture Content (dried @ 103°C)	%	0.1						20	8.5	13	11	7.1	5.5	5.8	6.4	4.8	20
	pH (aqueous extract)	pH Units	0.1						-	-	-	-	8.9	-	-	-	-	-
	Sulphate as S	mg/kg	10						-	-	-	-	<10	-	-	-	-	-
Metals	Arsenic	mg/kg	2	100	500		400	2000	2.3	<2	7.4	<2	-	3.2	<2	4.4	5.3	4.5
	Cadmium	mg/kg	0.4	20	100		80	400	<0.4	<0.4	<0.4	<0.4	-	<0.4	<0.4	< 0.4	< 0.4	< 0.4
	Chromium	mg/kg	5						<5	<5	5.2	5.5	-	6.7	8.8	< 5	< 5	< 5
	Copper	mg/kg	5						8.3	58	11	5.6	-	31	5.7	24	< 5	< 5
	Lead	mg/kg	5	100	1500		400	6000	7.7	<5	12	12	-	17	<5	14	< 5	< 5
	Lead TCLP Leachate	mg/L	0.01			5			-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4	50		16	200	0.23	<0.05	<0.05	<0.05	-	0.07	<0.05	< 0.05	< 0.05	< 0.05
	Mercury TCLP Leachate	mg/L	0.001			0.2			-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	5	40	1050		160	4200	<5	110	<5	<5	-	23	<5	9.6	< 5	< 5
	Nickel TCLP Leachate	mg/L	0.05			2			-	<0.05	-	-	-	-	-	-	-	-
	Zinc	mg/kg	5						<5	55	8	24	-	28	<5	40	7.5	270
	Acenaphthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
PAH	Acenaphthylene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Benzo(a)anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	10		3.2	23	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Benzo(b)&(k)fluoranthene	mg/kg	1						<1	<1	<1	<1	-	<1	<1	< 1	< 1	< 1
	Benzo(b)fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	-	-	< 0.5	< 0.5	< 0.5
	Benzo(g,h,i)perylene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Benzo(k)fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	-	-	< 0.5	< 0.5	< 0.5
	Chrysene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Dibenz(a,h)anthracene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Fluoranthene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Fluorene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Phenanthrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Pyrene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	< 0.5	< 0.5
	Total PAHs	mg/kg	1		200			800	<1	<1	<1	<1	-	<1	<1	< 0.5	< 0.5	< 0.5
TPH	F2-NAPHTHALENE	mg/kg	50						<50	<50	<50	<50	-	<50	<50	< 50	< 50	< 50
	C6 - C9	mg/kg	20		650			2600	<20	<20	<20	<20	-	<20	<20	< 20	< 20	< 20
	C10 - C14	mg/kg	20						<20	<20	<20	<20	-	<20	<20	< 20	< 20	< 20
	C15 - C28	mg/kg	50						<50	<50	<50	<50	-	<50	<50	< 50	< 50	< 50
	C29 - C36	mg/kg	50						<50	<50	<50	<50	-	<50	<50	< 50	< 50	< 50
	C10 - C36 (Sum of total)	mg/kg	50		10000			40000	<50	<50	<50	<50	-	<50	<50	< 50	< 50	< 50
	C10 - C16	mg/kg	50						<50	<50	<50	<50	-	<50	<50	< 50	< 50	< 50
	C16 - C34	mg/kg	100						<100	<100	<100	<100	-	<100	<100	< 100	< 100	< 100
	C34 - C40	mg/kg	100						<100	<100	<100	<100	-	<100	<100	< 100	< 100	< 100
	C6 - C10	mg/kg	20						<20	<20	<20	<20	-	<20	<20	< 20	< 20	< 20
Asbestos		-	-						-	ND	-	-	-	ND	-	ND	-	-

Table 5
Preliminary Waste Classification Assessment
ICC Hotel Development, Darling Harbour, Sydney NSW

Field_ID	BH208 DUP 3-3.1mA	BH209 0.2-0.3	DUP1	DUP4	TB130513-1	TS130513-1
LocCode	BH208 DUP 3-3.1mA	BH209 0.2-0.3	DUP1	DUP4	TB130513-1	TS130513-1
Sample_Depth_Range						
Sampled_Date-Time	21/05/2013	28/05/2013	14/05/2013	23/05/2013	13/05/2013	13/05/2013
Matrix_Description						
Lab_Report_Number	380011	380677	379021	380167	379021	379021

Chem_Group	ChemName	Units	LOR	NSW 2008 General Solid Waste - Soil without TCLP	NSW 2008 General Solid Waste - Soil with TCLP	NSW 2008 General Solid Waste - TCLP	NSW 2008 Restricted Solid Waste Soil without TCLP	NSW 2008 Restricted Solid Waste - Soil With TCLP						
BTEX	Benzene	mg/kg	0.1	10	18		40	72	< 0.1	<0.1	<0.1	<0.1	<0.1	1.11
	Toluene	mg/kg	0.1	288	518		1152	2073	< 0.1	<0.1	<0.1	<0.1	<0.1	1.11
	Ethylbenzene	mg/kg	0.1	600	1080		2400	4320	< 0.1	<0.1	<0.1	<0.1	<0.1	1.13
	Xylene (m & p)	mg/kg	0.2						< 0.2	<0.2	<0.2	<0.2	<0.2	1.13
	Xylene (o)	mg/kg	0.1						< 0.1	<0.1	<0.1	<0.1	<0.1	1.14
	Xylene Total	mg/kg	0.3	1000	1800		4000	7200	< 0.3	<0.3	<0.3	<0.3	<0.3	1.13
	Naphthalene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	C6-C10 less BTEX (F1)	mg/kg	20						< 20	<20	<20	<20	-	-
Field	pH (Field)	pH Units	0.1						-	-	-	-	-	-
Inorganics	Chloride	mg/kg	10						-	-	-	-	-	-
	Moisture Content (dried @ 103°C)	%	0.1						19	9.2	-	9.9	-	-
	pH (aqueous extract)	pH Units	0.1						-	-	-	-	-	-
	Sulphate as S	mg/kg	10						-	-	-	-	-	-
Metals	Arsenic	mg/kg	2	100	500		400	2000	4.1	<2	<2	5.5	-	-
	Cadmium	mg/kg	0.4	20	100		80	400	< 0.4	<0.4	<0.4	0.5	-	-
	Chromium	mg/kg	5						< 5	9.3	<5	<5	-	-
	Copper	mg/kg	5						5.9	28	7.8	37	-	-
	Lead	mg/kg	5	100	1500		400	6000	< 5	<5	9.8	41	-	-
	Lead TCLP Leachate	mg/L	0.01			5			-	-	-	-	-	-
	Mercury	mg/kg	0.05	4	50		16	200	< 0.05	<0.05	<0.05	35	-	-
	Mercury TCLP Leachate	mg/L	0.001			0.2			-	-	-	0.009	-	-
	Nickel	mg/kg	5	40	1050		160	4200	< 5	49	<5	50	-	-
	Nickel TCLP Leachate	mg/L	0.05			2			-	0.07	-	0.05	-	-
	Zinc	mg/kg	5						250	31	9.9	160	-	-
PAH	Acenaphthene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Acenaphthylene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Anthracene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(a)anthracene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(a)pyrene	mg/kg	0.5	0.8	10		3.2	23	< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(b)&(k)fluoranthene	mg/kg	1						<1	-	<1	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.5						< 0.5	<0.5	-	<0.5	-	-
	Benzo(g,h,i)perylene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Benzo(k)fluoranthene	mg/kg	0.5						< 0.5	<0.5	-	<0.5	-	-
	Chrysene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Dibenz(a,h)anthracene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Fluoranthene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Fluorene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Phenanthrene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Pyrene	mg/kg	0.5						< 0.5	<0.5	<0.5	<0.5	-	-
	Total PAHs	mg/kg	1		200			800	< 0.5	<0.5	<1	<0.5	-	-
TPH	F2-NAPHTHALENE	mg/kg	50						< 50	<50	<50	<50	-	-
	C6 - C9	mg/kg	20		650			2600	< 20	<20	<20	<20	<20	1.11
	C10 - C14	mg/kg	20						< 20	<20	<20	<20	-	-
	C15 - C28	mg/kg	50						< 50	180	<50	<50	-	-
	C29 - C36	mg/kg	50						< 50	180	<50	<50	-	-
	C10 - C36 (Sum of total)	mg/kg	50		10000			40000	< 50	360	<50	<50	-	-
	C10 - C16	mg/kg	50						< 50	<50	<50	<50	-	-
	C16 - C34	mg/kg	100						< 100	330	<100	<100	-	-
	C34 - C40	mg/kg	100						< 100	150	<100	<100	-	-
Asbestos	C6 - C10	mg/kg	20						< 20	<20	<20	<20	-	-

Table 6
Groundwater Analytical Results - Comparison Against Marine Trigger Values for Protection of 95%/99% of Species (ANZECC/ARMCANZ, 2000)

ICC Hotel Development, Darling Harbour, Sydney NSW

			LOR	Groundwater Investigation Levels (ANZECC 2000)	BH203_F	BH203	BH204_F	BH204	BH205_F	BH205	RB
					BH203 7/06/2013	BH203 7/06/2013	BH204 7/06/2013	BH204 7/06/2013	BH205 7/06/2013	BH205 7/06/2013	RB 7/06/2013
Heavy Metal	Arsenic (Filtered)	mg/L	0.001	0.0023	-	<0.001	-	<0.001	-	0.002	<0.001
	Cadmium (Filtered)	mg/L	0.0001	0.0007	-	<0.0001	-	<0.0001	-	0.0004	<0.0001
	Chromium (Filtered)	mg/L	0.001	0.0044	-	<0.001	-	<0.001	-	<0.001	<0.001
	Copper (Filtered)	mg/L	0.001	0.0013	-	0.001	-	<0.001	-	0.052	<0.001
	Lead (Filtered)	mg/L	0.001	0.0044	-	<0.001	-	<0.001	-	<0.001	<0.001
	Mercury (Filtered)	mg/L	0.0001	0.0001	-	<0.0001	-	<0.0001	-	<0.0001	<0.0001
	Nickel (Filtered)	mg/L	0.001	0.007	-	0.005	-	<0.001	-	0.052	<0.001
	Zinc (Filtered)	mg/L	0.005	0.015	-	0.017	-	<0.005	-	0.044	<0.005
PAH	Acenaphthene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Acenaphthylene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Anthracene	µg/L	0.05	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Benzo(a)anthracene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Benzo(a)pyrene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Benzo(g,h,i)perylene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Benzo(k)fluoranthene	µg/L	0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1
	Chrysene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Benzo[b+j]fluoranthene	mg/L	0.00001	-	<0.00001	<0.00001	<0.00001	<0.00002	<0.00001	<0.00001	<0.001
	Dibenz(a,h)anthracene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Fluoranthene	µg/L	0.05	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Fluorene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Indeno(1,2,3-c,d)pyrene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Phenanthrene	µg/L	0.05	0.6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Pyrene	µg/L	0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1
	Total PAHs	µg/L	0.05	-	0.06	0.05	0.06	0.05	<0.05	<0.05	<1
TPH	Naphthalene	µg/L	0.05	50	0.06	0.05	0.06	0.05	<0.05	<0.05	<1
	C10 - C14	µg/L	50	50	-	<50	-	170	-	<50	<50
	C15 - C28	µg/L	100	100	-	<100	-	100	-	<100	<100
	C29 - C36	µg/L	100	100	-	<100	-	<100	-	<100	<100
	C10 - C36 (Sum of total)	µg/L	100	-	-	<100	-	300	-	<100	<100
Volatile	Benzene	µg/L	1	500	-	<1	-	<1	-	<1	<1
	Toluene	µg/L	1	180	-	2	-	<1	-	<1	<1
	Ethylbenzene	µg/L	1	5	-	<1	-	<1	-	<1	<1
	Xylene (m & p)	µg/L	2	75	-	<2	-	<2	-	<2	<2
	Xylene (o)	µg/L	1	350	-	<1	-	<1	-	<1	<1
	Xylene Total	µg/L	3	-	-	<3	-	<3	-	<3	<3

Notes:

1. Samples with the suffix 'F' refer to samples that were filtered within the laboratory using a glass fibre 0.45micron filter

Table 7
Groundwater Analytical Results - Comparison Health Screening Levels (NEPC, 1999)

ICC Hotel Development, Darling Harbour, Sydney NSW

			LOR	Groundwater HSL (NEPC, 1999)	BH203_F	BH203	BH204_F	BH204	BH205_F	BH205	RB
					BH203	BH203	BH204	BH204	BH205	BH205	RB
					7/06/2013	7/06/2013	7/06/2013	7/06/2013	7/06/2013	7/06/2013	7/06/2013
TPH	F2-NAPHTHALENE	mg/L	0.05	NL	-	<0.05	-	0.19	-	<0.05	<0.05
	C6 - C9	µg/L	20	NL	-	<20	-	<20	-	<20	<20
	Naphthalene	µg/L	20	NL	-	<20	-	<20	-	<20	<20
	C6-C10 less BTEX (F1)	mg/L	0.02	6	-	<0.02	-	<0.02	-	<0.02	<0.02
	C10 - C16	mg/L	0.05	NL	-	<0.05	-	0.19	-	<0.05	<0.05
	C16 - C34	mg/L	0.1	NL	-	<0.1	-	0.1	-	<0.1	<0.1
	C34 - C40	mg/L	0.1	NL	-	<0.1	-	<0.1	-	<0.1	<0.1
	C6 - C10	mg/L	0.02	NL	-	<0.02	-	<0.02	-	<0.02	<0.02
	C10 - C14	µg/L	50	NL	-	<50	-	170	-	<50	<50
	C15 - C28	µg/L	100	NL	-	<100	-	100	-	<100	<100
	C29 - C36	µg/L	100	NL	-	<100	-	<100	-	<100	<100
Volatile	C10 - C36 (Sum of total)	µg/L	100	NL	-	<100	-	300	-	<100	<100
	Benzene	µg/L	1	5000	-	<1	-	<1	-	<1	<1
	Toluene	µg/L	1	NL	-	2	-	<1	-	<1	<1
	Ethylbenzene	µg/L	1	NL	-	<1	-	<1	-	<1	<1
	Xylene (m & p)	µg/L	2	NL	-	<2	-	<2	-	<2	<2
	Xylene (o)	µg/L	1	NL	-	<1	-	<1	-	<1	<1
	Xylene Total	µg/L	3	NL	-	<3	-	<3	-	<3	<3

Notes:

1. Samples with the suffix 'F' refer to samples that were filtered within the laboratory using a glass fibre 0.45micron filter

Table 8
Groundwater Analytical Results - Comparison Primary Duplicate Samples

ICC Hotel Development, Darling Harbour, Sydney NSW

SDG	107468	107468	
Field ID	BH205	DUP1	RPD
Sample Date	7/06/2013	7/06/2013	

Method Type	Analyte	Units	LOR			
Heavy Metal	Arsenic (Filtered)	mg/l	0.001	0.002	0.001	67
	Cadmium (Filtered)	mg/l	0.0001	0.0004	0.0004	0
	Chromium (Filtered)	mg/l	0.001	<0.001	<0.001	0
	Copper (Filtered)	mg/l	0.001	0.052	0.1	63
	Lead (Filtered)	mg/l	0.001	<0.001	<0.001	0
	Mercury (Filtered)	mg/l	0.0001	<0.0001	<0.0001	0
	Nickel (Filtered)	mg/l	0.001	0.052	0.069	28
	Zinc (Filtered)	mg/l	0.005	0.044	0.037	17
Organic	F2-NAPHTHALENE	mg/l	0.05	<0.05	<0.05	0
	C6 - C9	µg/l	20	<20.0	<20.0	0
	Naphthalene	µg/l	20	<20.0	<20.0	0
	C6-C10 less BTEX (F1)	mg/l	0.02	<0.02	<0.02	0
	C10 - C16	mg/l	0.05	<0.05	<0.05	0
	C16 - C34	mg/l	0.1	<0.1	<0.1	0
	C34 - C40	mg/l	0.1	<0.1	<0.1	0
	C6 - C10	mg/l	0.02	<0.02	<0.02	0
PAH	Acenaphthene	µg/l	0.05	<0.05	<0.05	0
	Acenaphthylene	µg/l	0.05	<0.05	<0.05	0
	Anthracene	µg/l	0.05	<0.05	<0.05	0
	Benzo(a)anthracene	µg/l	0.05	<0.05	<0.05	0
	Benzo(a)pyrene	µg/l	0.05	<0.05	<0.05	0
	Benzo(g,h,i)perylene	µg/l	0.05	<0.05	<0.05	0
	Benzo(k)fluoranthene	µg/l	0.01	<0.01	<0.01	0
	Chrysene	µg/l	0.05	<0.05	<0.05	0
	Benzo(b+j)fluoranthene	mg/l	0.00001	<0.0	<0.0	0
	Dibenz(a,h)anthracene	µg/l	0.05	<0.05	<0.05	0
	Fluoranthene	µg/l	0.05	<0.05	<0.05	0
	Fluorene	µg/l	0.05	<0.05	<0.05	0
	Indeno(1,2,3-c,d)pyrene	µg/l	0.05	<0.05	<0.05	0
	Phenanthrene	µg/l	0.05	<0.05	<0.05	0
	Pyrene	µg/l	0.05	<0.05	<0.05	0
	Total PAHs	µg/l	0.05	<0.05	<0.05	0
TPH	Naphthalene	µg/l	0.05	<0.05	<0.05	0
	C10 - C14	µg/l	50	<50.0	<50.0	0
	C15 - C28	µg/l	100	<100.0	<100.0	0
	C29 - C36	µg/l	100	<100.0	<100.0	0
Volatile	C10 - C36 (Sum of total)	µg/l	100	<100.0	<100.0	0
	Benzene	µg/l	1	<1.0	<1.0	0
	Toluene	µg/l	1	<1.0	<1.0	0
	Ethylbenzene	µg/l	1	<1.0	<1.0	0
	Xylene (m & p)	µg/l	2	<2.0	<2.0	0
	Xylene (o)	µg/l	1	<1.0	<1.0	0
	Xylene Total	µg/l	3	<3.0	<3.0	0

*RPDs have only been considered where a concentration is greater than 0 times the EQL.

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 50 (0-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those in the column header.

Table 9
Trip Blank Trip Spike Samples Collected During Groundwater Monitoring Event

ICC Hotel Development, Darling Harbour, Sydney NSW

			LOR	TB 6/06/2013	TS 6/06/2013
Heavy Metal	Arsenic (Filtered)	mg/L	0.001	-	-
	Cadmium (Filtered)	mg/L	0.0001	-	-
	Chromium (Filtered)	mg/L	0.001	-	-
	Copper (Filtered)	mg/L	0.001	-	-
	Lead (Filtered)	mg/L	0.001	-	-
	Mercury (Filtered)	mg/L	0.0001	-	-
	Nickel (Filtered)	mg/L	0.001	-	-
	Zinc (Filtered)	mg/L	0.005	-	-
Organic	F2-NAPHTHALENE	mg/L	0.05	-	-
	C6 - C9	µg/L	20	<20	78%
	Naphthalene	µg/L	20	-	-
	C6-C10 less BTEX (F1)	mg/L	0.02	-	-
	C10 - C16	mg/L	0.05	-	-
	C16 - C34	mg/L	0.1	-	-
	C34 - C40	mg/L	0.1	-	-
	C6 - C10	mg/L	0.02	-	-
PAH	Acenaphthene	µg/L	0.05	-	-
	Acenaphthylene	µg/L	0.05	-	-
	Anthracene	µg/L	0.05	-	-
	Benzo(a)anthracene	µg/L	0.05	-	-
	Benzo(a)pyrene	µg/L	0.05	-	-
	Benzo(g,h,i)perylene	µg/L	0.05	-	-
	Benzo(k)fluoranthene	µg/L	0.01	-	-
	Chrysene	µg/L	0.05	-	-
	Benzo[b+j]fluoranthene	mg/L	0.00001	-	-
	Dibenz(a,h)anthracene	µg/L	0.05	-	-
	Fluoranthene	µg/L	0.05	-	-
	Fluorene	µg/L	0.05	-	-
	Indeno(1,2,3-c,d)pyrene	µg/L	0.05	-	-
	Phenanthrene	µg/L	0.05	-	-
	Pyrene	µg/L	0.05	-	-
	Total PAHs	µg/L	0.05	-	-
	Naphthalene	µg/L	0.05	-	-
TPH	C10 - C14	µg/L	50	-	-
	C15 - C28	µg/L	100	-	-
	C29 - C36	µg/L	100	-	-
	C10 - C36 (Sum of total)	µg/L	100	-	-
Volatile	Benzene	µg/L	1	<1	120%
	Toluene	µg/L	1	<1	118%
	Ethylbenzene	µg/L	1	<1	100%
	Xylene (m & p)	µg/L	2	<2	99%
	Xylene (o)	µg/L	1	<1	104%
	Xylene Total	µg/L	3	<3	100%

Appendix D

Laboratory Certificates

**Detailed Site Investigation
Proposed International Convention Centre Hotel Development
Darling Harbour, Sydney NSW**

Dispatch to: (Address & Phone No.)	Sampled by: JOCELIN WIJAYA	Consigning Officer:
Attention:	Project Manager: MATTHEW LOCKE (report results to) MATTHEW.LOCKE@COFFEY.COM	Date Dispatched:
Relinquished by:	Date:	Received by:
Jocelin Wijaya (Coffey)	14/5/13	Elkan W. Europhs mgt
	Time:	Date:
		14/05/13
		Time:
		16:35

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required														Sample Condition on Receipt
					PAHs	TPHs	MAHs = BTEX	Metals:											
* HOLD TESTING INSTRUCTIONS TO FOLLOW		Jar	BH204 0.15-0.2m	14/5/13															
		Jar	BH204 0.5-0.6m	"															
		Jar	BH204 0.8-0.9m	"															
		Jar	BH204 0.8-0.9mA	"															
		Zip bag	BH204 0.8-0.9m	"															
		Jar	BH204 1.2-1.6m	"															
		Zip bag	BH204 1.2-1.6m	"															
		Jar	BH204 1.8-2.1m	"															
		Jar	BH204 2.3-2.55m	"															
		Jar	BH204 2.8-3.0m	"															
		Jar	BH204 2.8-3.0mA	"															
		Zip bag	BH204 ASSI 3.1-3.2m	"															
		Bottle	RBI																
		Jar	TB130513-1																
		Jar	TS130513-1																
		Jar	DJP1																

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

#379021
Matthew

-----Original Message-----

From: Matthew Locke [mailto:Matthew.Locke@coffey.com]

Sent: Monday, 20 May 2013 2:26 PM

To: Enviro Syd

Cc: Enquiries Syd

Subject: RE: Eurofins | mgt Sample Receipt Advice - Report 379021 : Site HOLD: GLCOV24303AH

Dear MGT / Sean,

Please find enclosed testing instructions for sample batch 379021 relating to Coffey Project Ref GEOTLCOV24303AH.

I trust the enclosed file will suffice as testing instructions. I am working remotely today without access to scanner/printer.

Please let me know if you have any queries regarding the enclosed.

Regards,

Matt

-----Original Message-----

From: enviro.syd@mgtlabmark.com.au [mailto:enviro.syd@mgtlabmark.com.au]

Sent: Monday, 20 May 2013 1:29 PM

To: Matthew Locke

Subject: Eurofins | mgt Sample Receipt Advice - Report 379021 : Site HOLD: GLCOV24303AH

Dear Valued Client,

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins mgt Client Services Manager as soon as possible to make certain that they get changed.

Please send all reply correspondence to enviro.syd@mgtLabMark.com.au noting the MGT Lab Reference in the subject header.

Kind regards

Sean Oxenford

Administration/ Sample Receipt

admin.syd@mgtLabMark.com.au

Unit F6, Unit F3,
Building F
16 Mars Road
Lane Cove West, NSW 2066
T:(+61) (2) 8215 6222
F:(+61) (2) 9420 2977

M: 04xxxxxxxx

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CILDISCL0005

Site: ICC Hotel, Darling Harbour

Coffey Project Ref: GEOTLCOV24303AH

Lab Batch Reference 379021

Sample Ref	Container Type	Analysis Requested				
		Suite B4 (TPH/BTEX/PAH)	Suite M8 (Metals)	Asbestos	ASS Screening (pH _{1c} /pH _{10x})	BTEX & TPH C6-C9
BH204 0.15-0.2m	Jar	X	X			
BH204 0.5-0.6m	Jar					
BH204 0.8-0.9m	Jar	X	X	X		
BH204 0.8-0.9m A	Jar	X	X			
BH204 1.2-1.6	Jar	X	X			
BH204 1.2-1.6	Zip Bag			X		
BH204 1.8-2.1	Jar					
BH204 2.3-2.55m	Jar					
BH204 2.8-3.0m	Jar	X	X			
BH204 2.8-3.0m A	Jar	X	X			
BH204_ASS1 3.1-3.2m	Zip Bag				X	
RB1	Bottle	X	X			
TB130513-1	Jar					X
TS130513-1	Jar					X
DUP1	Jar	X	X			

#379021

-----Original Message-----

From: Matthew Locke [mailto:Matthew.Locke@coffey.com]

Sent: Tuesday, 21 May 2013 10:46 AM

To: Enviro Syd

Subject: RE: Eurofins | mgt Sample Receipt Advice - Report 379021 :
Site ICC HOTEL DARLING HARBOUR GLCOV24303AH

Sean

Thank you for the SRA. Further to our discussion regarding your notes below:

Please do not analyse sample BH204 ASS1_3.1-3.2m for acid sulphate soils

Please only analyse RB1 for organics. Please do not analyse for metals.

I understand that MGT will issue another SRA in due course.

Regards,

Matt

-----Original Message-----

From: enviro.syd@mgtlabmark.com.au

[mailto:enviro.syd@mgtlabmark.com.au]

Sent: Monday, 20 May 2013 4:02 PM

To: Matthew Locke

Subject: Eurofins | mgt Sample Receipt Advice - Report 379021 : Site
ICC HOTEL DARLING HARBOUR GLCOV24303AH

Dear Valued Client,

Samples received 14/5/13; analysis received 20/5/13. | Sample BH204 ASS1_3.1-3.2m analysed outside of recommended holding time and received water logged; analysis likely to be compromised. | Sample bag (My12001) analysed for asbestos instead of sample jar (My11999) for sample BH204 0.9-0.9m unless otherwise requested. | Incorrect bottle and preservation type for metals analysis for RB1. Analysis to proceed - results may be affected

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins mgt Client Services Manager as soon as possible to make certain that they get changed.

Please send all reply correspondence to enviro.syd@mgtLabMark.com.au noting the MGT Lab Reference in the subject header.

Kind regards

Sean Oxenford

Sample Receipt Advice

Company name: **Coffey Geotechnics Pty Ltd Chatswood**
Contact name: **Matthew Locke**
Client job number: **ICC HOTEL DARLING HARBOUR GLCOV24303AH**
COC number: **20978**
Turn around time: **5 Day**
Date/Time received: **May 20, 2013 2:26 PM**
Eurofins | mgt reference: **379021**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 8 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Sample containers for volatile analysis received with zero headspace.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

SRA Re-issued: Acid Sulphate Soils analysis cancelled for sample BH204 ASS1_3.1-3.2M| Metals analysis cancelled for RB1|Samples received 14/5/13; analysis received 20/5/13. | Sample bag (My12001) analysed for asbestos instead of sample jar (My11999) for sample BH204 0.9-0.9m unless otherwise requested.

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: jean.heng@mgtlabmark.com.au

Results will be delivered electronically via e.mail to Matthew Locke - Matthew_Locke@coffey.com.

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: Matthew Locke

Report 379021-W
Client Reference ICC HOTEL DARLING HARBOUR GLCOV24303AH
Received Date May 20, 2013



Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Client Sample ID			RB1
Sample Matrix			Water
Eurofins mgt Sample No.			S13-My12009
Date Sampled			May 14, 2013
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-36 (Total)	0.1	mg/L	< 0.1
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	94
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *			
Naphthalene ^{N02}	0.02	mg/L	< 0.02
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
Polyaromatic Hydrocarbons (PAH)			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b)fluoranthene & Benzo(k)fluoranthene	0.002	mg/L	< 0.002
Benzo(g,h,i)perylene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1,2,3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001

Client Sample ID			RB1
Sample Matrix			Water
Eurofins mgt Sample No.			S13-My12009
Date Sampled			May 14, 2013
Test/Reference	LOR	Unit	
Polyaromatic Hydrocarbons (PAH)			
Pyrene	0.001	mg/L	< 0.001
Total PAH	0.002	mg/L	< 0.002
2-Fluorobiphenyl (surr.)	1	%	113
p-Terphenyl-d14 (surr.)	1	%	78

Description	Testing Site	Extracted	Holding Time
Eurofins mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 21, 2013	7 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 20, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 21, 2013	7 Day
- Method: LM-LTM-ORG2010			
Polyaromatic Hydrocarbons (PAH)	Sydney	May 21, 2013	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067
Client Job No.: ICC HOTEL DARLING HARBOUR GLCOV24303AH

Order No.:
Report #: 379021
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 2:26 PM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
BH204 0.15-0.2m	May 14, 2013		Soil	S13-My11997	X				X		X
BH204 0.5-0.6m	May 14, 2013		Soil	S13-My11998			X				
BH204 0.8-0.9m	May 14, 2013		Soil	S13-My11999	X				X		X
BH204 0.8-0.9mA	May 14, 2013		Soil	S13-My12000	X				X		X
BH204 0.8-0.9m BAG	May 14, 2013		Soil	S13-My12001		X					
BH204 1.2-1.6m	May 14, 2013		Soil	S13-My12002	X				X		X

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067
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Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
BH204 1.2-1.6m BAG	May 14, 2013		Soil	S13-My12003		X					
BH204 1.8-2.1m	May 14, 2013		Soil	S13-My12004			X				
BH204 2.3-2.55m	May 14, 2013		Soil	S13-My12005			X				
BH204 2.8-3.0m	May 14, 2013		Soil	S13-My12006	X				X		X
BH204 2.8-3.0mA	May 14, 2013		Soil	S13-My12007	X				X		X
BH204 ASS1_3.1-3.2m	May 14, 2013		Soil	S13-My12008			X				
RB1	May 14, 2013		Water	S13-My12009							X

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067
Client Job No.: ICC HOTEL DARLING HARBOUR GLCOV24303AH

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Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
TB130513-1	May 13, 2013		Soil	S13-My12010				X		X	
TS130513-1	May 13, 2013		Soil	S13-My12011				X		X	
DUP1	May 14, 2013		Soil	S13-My12012					X		X
TSLAB130513-1	May 13, 2013		Soil	S13-My12013				X		X	

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

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

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

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

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

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

QC - ACCEPTANCE CRITERIA

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

Results <10 times the LOR : No Limit

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

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

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

QC DATA GENERAL COMMENTS

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

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH C6-C10 less BTEX (F1)	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/L	< 0.002			0.002	Pass	
Benzo(g,h,i)perylene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a,h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1,2,3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	%	104			70-130	Pass	
TRH C10-C14	%	90			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX							
Benzene	%	103			70-130	Pass	
Toluene	%	96			70-130	Pass	
Ethylbenzene	%	97			70-130	Pass	
m&p-Xylenes	%	111			70-130	Pass	
o-Xylene	%	96			70-130	Pass	
Xylenes - Total	%	106			70-130	Pass	

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery										
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010										
Naphthalene				%	91			70-130	Pass	
TRH C6-C10				%	101			70-130	Pass	
TRH >C10-C16				%	98			70-130	Pass	
LCS - % Recovery										
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)										
Acenaphthene				%	99			70-130	Pass	
Acenaphthylene				%	104			70-130	Pass	
Anthracene				%	108			70-130	Pass	
Benz(a)anthracene				%	121			70-130	Pass	
Benzo(a)pyrene				%	104			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene				%	62			70-130	Fail	
Benzo(g,h,i)perylene				%	108			70-130	Pass	
Chrysene				%	104			70-130	Pass	
Dibenz(a,h)anthracene				%	108			70-130	Pass	
Fluoranthene				%	109			70-130	Pass	
Fluorene				%	120			70-130	Pass	
Indeno(1,2,3-cd)pyrene				%	107			70-130	Pass	
Naphthalene				%	119			70-130	Pass	
Phenanthrene				%	113			70-130	Pass	
Pyrene				%	107			70-130	Pass	
Test	Lab Sample ID	QA Source		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					Result 1					
TRH C6-C9	S13-My11144	NCP		%	93			70-130	Pass	
TRH C10-C14	S13-My14445	NCP		%	74			70-130	Pass	
Spike - % Recovery										
BTEX					Result 1					
Benzene	S13-My11144	NCP		%	100			70-130	Pass	
Toluene	S13-My11144	NCP		%	96			70-130	Pass	
Ethylbenzene	S13-My11144	NCP		%	98			70-130	Pass	
m&p-Xylenes	S13-My11144	NCP		%	113			70-130	Pass	
o-Xylene	S13-My11144	NCP		%	96			70-130	Pass	
Xylenes - Total	S13-My11144	NCP		%	107			70-130	Pass	
Spike - % Recovery										
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions					Result 1					
Naphthalene	S13-My11144	NCP		%	97			70-130	Pass	
TRH C6-C10	S13-My11144	NCP		%	102			70-130	Pass	
TRH >C10-C16	S13-My14445	NCP		%	81			70-130	Pass	
Spike - % Recovery										
Polyaromatic Hydrocarbons (PAH)					Result 1					
Acenaphthene	S13-My14210	NCP		%	100			70-130	Pass	
Acenaphthylene	S13-My14210	NCP		%	102			70-130	Pass	
Anthracene	S13-My14210	NCP		%	99			70-130	Pass	
Benz(a)anthracene	S13-My14210	NCP		%	108			70-130	Pass	
Benzo(a)pyrene	S13-My14210	NCP		%	103			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My14210	NCP		%	62			70-130	Fail	Q13
Benzo(g,h,i)perylene	S13-My14210	NCP		%	92			70-130	Pass	
Chrysene	S13-My14210	NCP		%	99			70-130	Pass	
Dibenz(a,h)anthracene	S13-My14210	NCP		%	83			70-130	Pass	
Fluoranthene	S13-My14210	NCP		%	100			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluorene	S13-My14210	NCP	%	122			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-My14210	NCP	%	82			70-130	Pass	
Phenanthrene	S13-My14210	NCP	%	103			70-130	Pass	
Pyrene	S13-My14210	NCP	%	96			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S13-My11142	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S13-My12009	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S13-My12009	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S13-My12009	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My11142	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S13-My11142	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S13-My11142	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S13-My11142	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S13-My11142	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S13-My11142	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My11142	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10	S13-My11142	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My11142	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S13-My12009	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S13-My12009	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S13-My12009	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD			
Acenaphthene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My12009	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Benzo(g,h,i)perylene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a,h)anthracene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S13-My12009	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Comments

Sample Integrity

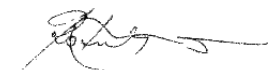
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
Q13	Some elements for this test have failed in the QC sample. However when at least 80% have passed the QC can be released. All other QC has passed in this test batch

Authorised By

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



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Uncertainty data is available on request

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Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: Matthew Locke

Report 379021-S
Client Reference ICC HOTEL DARLING HARBOUR GLCOV24303AH
Received Date May 20, 2013



Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Client Sample ID			BH204 0.15-0.2m	BH204 0.8-0.9m	BH204 0.8-0.9mA	BH204 0.8-0.9m BAG
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My11997	S13-My11999	S13-My12000	S13-My12001
Date Sampled			May 14, 2013	May 14, 2013	May 14, 2013	May 14, 2013
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	76	< 50	< 50	-
TRH C29-C36	50	mg/kg	160	< 50	< 50	-
TRH C10-36 (Total)	50	mg/kg	240	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	98	93	94	-
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	220	< 100	< 100	-
TRH >C34-C40	100	mg/kg	110	< 100	< 100	-
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1	< 1	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-

Client Sample ID			BH204 0.15-0.2m	BH204 0.8-0.9m	BH204 0.8-0.9mA	BH204 0.8-0.9m_BAG
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My11997	S13-My11999	S13-My12000	S13-My12001
Date Sampled			May 14, 2013	May 14, 2013	May 14, 2013	May 14, 2013
Test/Reference	LOR	Unit				
Polyaromatic Hydrocarbons (PAH)						
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH	1	mg/kg	< 1	< 1	< 1	-
2-Fluorobiphenyl (surr.)	1	%	127	100	100	-
p-Terphenyl-d14 (surr.)	1	%	117	88	90	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.0	2.9	-
Cadmium	0.4	mg/kg	< 0.4	0.6	< 0.4	-
Chromium	5	mg/kg	< 5	< 5	< 5	-
Copper	5	mg/kg	68	33	27	-
Lead	5	mg/kg	19	180	52	-
Mercury	0.05	mg/kg	< 0.05	0.06	0.06	-
Nickel	5	mg/kg	100	9.6	7.9	-
Zinc	5	mg/kg	150	220	170	-
% Moisture	0.1	%	5.2	8.2	6.7	-
Asbestos			-	-	-	

Client Sample ID			BH204 1.2-1.6m	BH204 1.2-1.6m_BAG	BH204 2.8-3.0m	BH204 2.8-3.0mA
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My12002	S13-My12003	S13-My12006	S13-My12007
Date Sampled			May 14, 2013	May 14, 2013	May 14, 2013	May 14, 2013
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	-	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	92	-	90	92
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100

Client Sample ID			BH204 1.2-1.6m	BH204 1.2-1.6m_BAG	BH204 2.8-3.0m	BH204 2.8-3.0mA
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My12002	S13-My12003	S13-My12006	S13-My12007
Date Sampled			May 14, 2013	May 14, 2013	May 14, 2013	May 14, 2013
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	-	< 1	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH	1	mg/kg	< 1	-	< 1	< 1
2-Fluorobiphenyl (surr.)	1	%	98	-	112	109
p-Terphenyl-d14 (surr.)	1	%	90	-	91	97
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	2.3	5.9
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	-	< 5	9.5
Copper	5	mg/kg	< 5	-	8.3	12
Lead	5	mg/kg	11	-	7.7	16
Mercury	0.05	mg/kg	< 0.05	-	0.23	< 0.05
Nickel	5	mg/kg	< 5	-	< 5	< 5
Zinc	5	mg/kg	< 5	-	< 5	9.2
% Moisture	0.1	%	9.3	-	20	19
Asbestos			-		-	-

Client Sample ID			TB130513-1	TS130513-1	DUP1
Sample Matrix			Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My12010	S13-My12011	S13-My12012
Date Sampled			May 13, 2013	May 13, 2013	May 14, 2013
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	111%	< 20
TRH C10-C14	20	mg/kg	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	< 50
TRH C10-36 (Total)	50	mg/kg	-	-	< 50

Client Sample ID			TB130513-1	TS130513-1	DUP1
Sample Matrix			Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My12010	S13-My12011	S13-My12012
Date Sampled			May 13, 2013	May 13, 2013	May 14, 2013
Test/Reference	LOR	Unit			
BTEX					
Benzene	0.1	mg/kg	< 0.1	111%	< 0.1
Toluene	0.1	mg/kg	< 0.1	111%	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	113%	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	113%	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	114%	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	113%	< 0.3
4-Bromofluorobenzene (surr.)	1	%	93	109	93
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *					
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100
Polyaromatic Hydrocarbons (PAH)					
Acenaphthene	0.5	mg/kg	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	-	-	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5
Total PAH	1	mg/kg	-	-	< 1
2-Fluorobiphenyl (surr.)	1	%	-	-	108
p-Terphenyl-d14 (surr.)	1	%	-	-	101
Heavy Metals					
Arsenic	2	mg/kg	-	-	< 2
Cadmium	0.4	mg/kg	-	-	< 0.4
Chromium	5	mg/kg	-	-	< 5
Copper	5	mg/kg	-	-	7.8
Lead	5	mg/kg	-	-	9.8
Mercury	0.05	mg/kg	-	-	< 0.05
Nickel	5	mg/kg	-	-	< 5
Zinc	5	mg/kg	-	-	9.9

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 21, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 21, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 21, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polyaromatic Hydrocarbons (PAH)	Sydney	May 21, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	May 21, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	May 21, 2013	28 Day
- Method: E005 Moisture Content			

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067
Client Job No.: ICC HOTEL DARLING HARBOUR GLCOV24303AH

Order No.:
Report #: 379021
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 2:26 PM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
BH204 0.15-0.2m	May 14, 2013		Soil	S13-My11997	X				X		X
BH204 0.5-0.6m	May 14, 2013		Soil	S13-My11998			X				
BH204 0.8-0.9m	May 14, 2013		Soil	S13-My11999	X				X		X
BH204 0.8-0.9mA	May 14, 2013		Soil	S13-My12000	X				X		X
BH204 0.8-0.9m BAG	May 14, 2013		Soil	S13-My12001		X					
BH204 1.2-1.6m	May 14, 2013		Soil	S13-My12002	X				X		X

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Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
BH204 1.2-1.6m BAG	May 14, 2013		Soil	S13-My12003		X					
BH204 1.8-2.1m	May 14, 2013		Soil	S13-My12004			X				
BH204 2.3-2.55m	May 14, 2013		Soil	S13-My12005			X				
BH204 2.8-3.0m	May 14, 2013		Soil	S13-My12006	X				X		X
BH204 2.8-3.0mA	May 14, 2013		Soil	S13-My12007	X				X		X
BH204 ASS1_3.1-3.2m	May 14, 2013		Soil	S13-My12008			X				
RB1	May 14, 2013		Water	S13-My12009							X

Company Name: Coffey Geotechnics Pty Ltd Chatswood
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Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
TB130513-1	May 13, 2013		Soil	S13-My12010				X		X	
TS130513-1	May 13, 2013		Soil	S13-My12011				X		X	
DUP1	May 14, 2013		Soil	S13-My12012					X		X
TSLAB130513-1	May 13, 2013		Soil	S13-My12013				X		X	

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

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

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

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

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

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

QC - ACCEPTANCE CRITERIA

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

Results <10 times the LOR : No Limit

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

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

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

QC DATA GENERAL COMMENTS

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

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/kg	< 1			1	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							

Test		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14		%	92			70-130	Pass	
LCS - % Recovery								
BTEX E029/E016 BTEX								
Benzene		%	110			70-130	Pass	
Toluene		%	116			70-130	Pass	
Ethylbenzene		%	122			70-130	Pass	
m&p-Xylenes		%	123			70-130	Pass	
o-Xylene		%	124			70-130	Pass	
Xylenes - Total		%	123			70-130	Pass	
LCS - % Recovery								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010								
Naphthalene		%	100			70-130	Pass	
TRH C6-C10		%	105			70-130	Pass	
TRH >C10-C16		%	101			70-130	Pass	
LCS - % Recovery								
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)								
Acenaphthene		%	101			70-130	Pass	
Acenaphthylene		%	90			70-130	Pass	
Anthracene		%	103			70-130	Pass	
Benz(a)anthracene		%	91			70-130	Pass	
Benzo(a)pyrene		%	92			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene		%	94			70-130	Pass	
Benzo(g,h,i)perylene		%	114			70-130	Pass	
Chrysene		%	101			70-130	Pass	
Dibenz(a,h)anthracene		%	105			70-130	Pass	
Fluoranthene		%	98			70-130	Pass	
Fluorene		%	93			70-130	Pass	
Indeno(1,2,3-cd)pyrene		%	104			70-130	Pass	
Naphthalene		%	100			70-130	Pass	
Phenanthrene		%	99			70-130	Pass	
Pyrene		%	98			70-130	Pass	
LCS - % Recovery								
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury								
Arsenic		%	89			70-130	Pass	
Cadmium		%	103			70-130	Pass	
Chromium		%	95			70-130	Pass	
Copper		%	101			70-130	Pass	
Lead		%	98			70-130	Pass	
Mercury		%	98			70-130	Pass	
Nickel		%	98			70-130	Pass	
Zinc		%	108			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S13-My15042	NCP	%	89		70-130	Pass	
TRH C10-C14	S13-My11997	CP	%	103		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S13-My15042	NCP	%	105		70-130	Pass	
Toluene	S13-My15042	NCP	%	109		70-130	Pass	
Ethylbenzene	S13-My15042	NCP	%	115		70-130	Pass	
m&p-Xylenes	S13-My15042	NCP	%	115		70-130	Pass	
o-Xylene	S13-My15042	NCP	%	123		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total	S13-My15042	NCP	%	118			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1					
Naphthalene	S13-My15042	NCP	%	95			70-130	Pass	
TRH C6-C10	S13-My15042	NCP	%	100			70-130	Pass	
TRH >C10-C16	S13-My11997	CP	%	119			70-130	Pass	
Spike - % Recovery									
Polyaromatic Hydrocarbons (PAH)				Result 1					
Acenaphthene	S13-My11997	CP	%	129			70-130	Pass	
Acenaphthylene	S13-My11997	CP	%	125			70-130	Pass	
Anthracene	S13-My11997	CP	%	124			70-130	Pass	
Benz(a)anthracene	S13-My11997	CP	%	126			70-130	Pass	
Benzo(a)pyrene	S13-My11997	CP	%	129			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My11997	CP	%	124			70-130	Pass	
Benzo(g,h,i)perylene	S13-My11997	CP	%	110			70-130	Pass	
Chrysene	S13-My11997	CP	%	103			70-130	Pass	
Dibenz(a,h)anthracene	S13-My11997	CP	%	129			70-130	Pass	
Fluoranthene	S13-My11997	CP	%	114			70-130	Pass	
Fluorene	S13-My11997	CP	%	125			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S13-My11997	CP	%	125			70-130	Pass	
Naphthalene	S13-My11997	CP	%	125			70-130	Pass	
Phenanthrene	S13-My11997	CP	%	123			70-130	Pass	
Pyrene	S13-My11997	CP	%	126			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My11997	CP	%	95			70-130	Pass	
Cadmium	S13-My11997	CP	%	100			70-130	Pass	
Chromium	S13-My11997	CP	%	96			70-130	Pass	
Copper	S13-My17742	NCP	%	103			70-130	Pass	
Lead	S13-My11997	CP	%	117			70-130	Pass	
Mercury	S13-My11997	CP	%	106			70-130	Pass	
Nickel	S13-My17742	NCP	%	74			70-130	Pass	
Zinc	S13-My17014	NCP	%	80			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S13-My15042	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-My11997	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-My11997	CP	mg/kg	76	68	11	30%	Pass	
TRH C29-C36	S13-My11997	CP	mg/kg	160	150	9.0	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My15042	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-My15042	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-My15042	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-My15042	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-My15042	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-My15042	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My15042	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-My15042	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My15042	NCP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S13-My11997	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S13-My11997	CP	mg/kg	220	190	15	30%	Pass
TRH >C34-C40	S13-My11997	CP	mg/kg	110	100	7.0	30%	Pass
Duplicate								
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD		
Acenaphthene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My11997	CP	mg/kg	< 1	< 1	<1	30%	Pass
Benzo(g,h,i)perylene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S13-My11997	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	S13-My11997	CP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	S13-My11997	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S13-My11997	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S13-My11997	CP	mg/kg	68	69	2.0	30%	Pass
Lead	S13-My11997	CP	mg/kg	19	21	8.0	30%	Pass
Mercury	S13-My11997	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Nickel	S13-My11997	CP	mg/kg	100	97	3.0	30%	Pass
Zinc	S13-My11997	CP	mg/kg	150	150	2.0	30%	Pass

Comments

Sample Integrity

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

Qualifier Codes/Comments

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

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Uncertainty data is available on request

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

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067
Client Job No.: ICC HOTEL DARLING HARBOUR GLCOV24303AH

Order No.:
Report #: 379021
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 2:26 PM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
BH204 0.15-0.2m	May 14, 2013		Soil	S13-My11997	X				X		X
BH204 0.5-0.6m	May 14, 2013		Soil	S13-My11998			X				
BH204 0.8-0.9m	May 14, 2013		Soil	S13-My11999	X				X		X
BH204 0.8-0.9mA	May 14, 2013		Soil	S13-My12000	X				X		X
BH204 0.8-0.9m BAG	May 14, 2013		Soil	S13-My12001		X					
BH204 1.2-1.6m	May 14, 2013		Soil	S13-My12002	X				X		X

Company Name: Coffey Geotechnics Pty Ltd Chatswood
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Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
BH204 1.2-1.6m BAG	May 14, 2013		Soil	S13-My12003		X					
BH204 1.8-2.1m	May 14, 2013		Soil	S13-My12004			X				
BH204 2.3-2.55m	May 14, 2013		Soil	S13-My12005			X				
BH204 2.8-3.0m	May 14, 2013		Soil	S13-My12006	X				X		X
BH204 2.8-3.0mA	May 14, 2013		Soil	S13-My12007	X				X		X
BH204 ASS1_3.1-3.2m	May 14, 2013		Soil	S13-My12008			X				
RB1	May 14, 2013		Water	S13-My12009							X

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Sample Detail					% Moisture	Asbestos	HOLD	TRH C6-C9	Metals M8	BTEX	Eurofins mgt Suite 4
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory						X					
TB130513-1	May 13, 2013		Soil	S13-My12010				X		X	
TS130513-1	May 13, 2013		Soil	S13-My12011				X		X	
DUP1	May 14, 2013		Soil	S13-My12012					X		X
TSLAB130513-1	May 13, 2013		Soil	S13-My12013				X		X	

Dispatch to: (Address & Phone No.)		WAT LAB MARK LANE COVE		Sampled by: JOCELIN WJAYA		Consigning Officer:		Date Dispatched:											
Attention:		Project Manager: (report results to)		MATTHEW LOCKE MATTHEW_LOCKE@COFFEY.COM		Courier Service:		Consignment Note No: #379182											
Relinquished by:		Date:		Time:		Received by:		Date:		Time:									
Matthew Locke (Coffey)						Michelle Murphy Encalms mgmt		15-5-13		1.40pm									
Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required										Sample Condition on Receipt				
					PAHs	TPHs	MAHs = BTEX	Metals:											
* HOLD		Jar	BH207 0.1-0.2m	14/5/13															
TESTING SCHEDULE		Jar	BH207 0.4-0.5m	11															
TO BE ISSUED		Zip bag	BH207 0.4-0.5m	11															
SEPARATELY		Jar	BH207 1.0-1.1m	11															
		Zip bag	BH207 1.0-1.1m	11															
		Jar	BH207 1.5-1.92m	11															
		Zip bag Jar	Dup 2	11															
Special Laboratory Instructions:																			
Detection Limits:																			
Turnaround Required: STANDARD.																			
JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES																			

#379182
#379367

GA 20/5/13

From: Matthew Locke [mailto:Matthew.Locke@coffey.com]

Sent: Monday, 20 May 2013 7:15 AM

To: Enviro Syd; Enquiries Syd

Subject: GEOTLCOV24303AH - Testing Instructions

Dear MGT,

Please find enclosed testing instructions for soil samples submitted to you last week from our project referred to as ICC Hotel with reference GEOTLCOV24303AH.

There is another batch of samples from this project which have been submitted to your laboratory on 14/05 but we have not received a receipt notification. These samples would have been submitted under the same project number and would refer to sample position BH204. Could you please check and confirm that you have received these samples. If so, could you please send me a copy of the COC and I will provide testing instructions. Thanks for your assistance with this.

Regards,

Matt

Matthew Locke BEng (Hons), MIEMA, CEnv
Senior Associate Environmental Engineer

Level 19, Tower B - Citadel Tower,
799 Pacific Highway, Chatswood, NSW 2067

t: (+61) (2) 9406 1000

f: (+61) (2) 9406 1002

m: (+61) (0) 427 202 493



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CILDISCL0005



No: 20979

Laboratory Quotation / Order No:

Job No: G160V24303AH Sheet 41

379182.

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

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

Sample Receipt Advice

Company name: **Coffey Geotechnics Pty Ltd Chatswood**

Contact name: **Matthew Locke**
Client job number: **GLCOV24303AH**
COC number: **20979**
Turn around time: **5 Day**
Date/Time received: **May 20, 2013 7:15 AM**
Eurofins | mgt reference: **379182**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7.5 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Sample jar for sample BH207 1.5-1.92m received cracked but intact | Samples received 15/5/13 - analysis received 20/5/13 - TAT adjusted accordingly

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: jean.heng@mgtlabmark.com.au

Results will be delivered electronically via e.mail to Matthew Locke - Matthew_Locke@coffey.com.

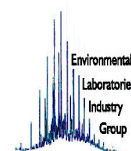
Eurofins | mgt Sample Receipt



Environmental Laboratory
Air Analysis
Water Analysis
Soil Contamination Analysis

NATA Accreditation
Stack Emission Sampling & Analysis
Trade Waste Sampling & Analysis
Groundwater Sampling & Analysis

38 Years of Environmental Analysis & Experience



Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067
Client Job No.: GLCOV24303AH

Order No.:
Report #: 379182
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 7:15 AM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins mgt Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
BH207 0.1-0.2m	May 14, 2013		Soil	S13-My12862			X		
BH207 0.4-0.5m	May 14, 2013		Soil	S13-My12863	X			X	X
BH207 0.4-0.5m BAG	May 14, 2013		Soil	S13-My12864		X			
BH207 1.0-1.1m	May 14, 2013		Soil	S13-My12865			X		
BH207 1.0-1.1m BAG	May 14, 2013		Soil	S13-My12866			X		
BH207 1.5-1.92m	May 14, 2013		Soil	S13-My12867	X			X	X

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Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins mgt Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
DUP2	May 14, 2013		Soil	S13-My12868			X		



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET33371/ 36551 / 1 - 1

Your ref : 379367

NATA Accreditation No: 14484

24 May 2013

Eurofins | mgt
Unit F3, Building F, 16 Mars Road
Lane Cove NSW 2066

Attn: Dr Robert Symons
Laboratory & Technical Manager

Dear Robert

Asbestos Identification

This report presents the results of one sample, forwarded by Eurofins | mgt on 21 May 2013, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method.
(Safer Environment Method 1.)

3. Results : **Sample No. 1. ASET33371 / 36551 / 1. BH205 - 0.5 - 0.6 - Bag - My14260.**
Approx dimensions 7.6 cm x 7.4 cm x 5.6 cm
The sample consisted of a mixture of soil, stones, plant matter and fragments of bitumen.
No asbestos detected.

Analysed and reported by,

Laxman Dias. BSc
Analyst / Approved Identifier
Approved Signatory



This document is issued in accordance with
NATA's Accreditation requirements. Accredited
for compliance with ISO/IEC 17025.

SUITE 710 / 90 GEORGE STREET, HORNSBY NSW 2077 – P.O. BOX 1644 HORNSBY WESTFIELD NSW 1635

PHONE: (02) 99872183 FAX: (02) 99872151 EMAIL: aset@bigpond.net.au WEBSITE: www.Ausset.com.au

OCCUPATIONAL HEALTH & SAFETY STUDIES • INDOOR AIR QUALITY SURVEYS • HAZARDOUS MATERIAL SURVEYS • RADIATION SURVEYS • ASBESTOS SURVEYS
ASBESTOS DETECTION & IDENTIFICATION • REPAIR & CALIBRATION OF SCIENTIFIC EQUIPMENT • AIRBORNE FIBRE & SILICA MONITORING

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: Matthew Locke

Report 379182-S
Client Reference GLCOV24303AH
Received Date May 20, 2013



Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Client Sample ID			BH207 0.4-0.5m	BH207 0.4-0.5m_BAG	BH207 1.5-1.92m
Sample Matrix			Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My12863	S13-My12864	S13-My12867
Date Sampled			May 14, 2013	May 14, 2013	May 14, 2013
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	-	< 50
BTEX					
Benzene	0.1	mg/kg	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	95	-	90
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *					
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100
Polyaromatic Hydrocarbons (PAH)					
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5
Benzo(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	-	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5

Client Sample ID			BH207 0.4-0.5m	BH207 0.4-0.5m_BAG	BH207 1.5-1.92m
Sample Matrix			Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My12863	S13-My12864	S13-My12867
Date Sampled			May 14, 2013	May 14, 2013	May 14, 2013
Test/Reference	LOR	Unit			
Polyaromatic Hydrocarbons (PAH)					
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5
Total PAH	1	mg/kg	< 1	-	< 1
2-Fluorobiphenyl (surr.)	1	%	111	-	114
p-Terphenyl-d14 (surr.)	1	%	105	-	109
Heavy Metals					
Arsenic	2	mg/kg	3.2	-	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4
Chromium	5	mg/kg	6.7	-	8.8
Copper	5	mg/kg	31	-	5.7
Lead	5	mg/kg	17	-	< 5
Mercury	0.05	mg/kg	0.07	-	< 0.05
Nickel	5	mg/kg	23	-	< 5
Zinc	5	mg/kg	28	-	< 5
% Moisture	0.1	%	5.5	-	5.8
Asbestos			-	see attached	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 20, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 20, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 20, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polyaromatic Hydrocarbons (PAH)	Sydney	May 20, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	May 20, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	May 20, 2013	28 Day
- Method: E005 Moisture Content			

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Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins mgt Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
BH207 0.1-0.2m	May 14, 2013		Soil	S13-My12862			X		
BH207 0.4-0.5m	May 14, 2013		Soil	S13-My12863	X			X	X
BH207 0.4-0.5m BAG	May 14, 2013		Soil	S13-My12864		X			
BH207 1.0-1.1m	May 14, 2013		Soil	S13-My12865			X		
BH207 1.0-1.1m BAG	May 14, 2013		Soil	S13-My12866			X		
BH207 1.5-1.92m	May 14, 2013		Soil	S13-My12867	X			X	X

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067
Client Job No.: GLCOV24303AH

Order No.:
Report #: 379182
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 7:15 AM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins mgt Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
DUP2	May 14, 2013		Soil	S13-My12868			X		

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

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

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

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

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

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

QC - ACCEPTANCE CRITERIA

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

Results <10 times the LOR : No Limit

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

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

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

QC DATA GENERAL COMMENTS

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

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/kg	< 1			1	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9			%	103			70-130	Pass	
TRH C10-C14			%	98			70-130	Pass	
LCS - % Recovery									
BTEX E029/E016 BTEX									
Benzene			%	113			70-130	Pass	
Toluene			%	112			70-130	Pass	
Ethylbenzene			%	117			70-130	Pass	
m&p-Xylenes			%	116			70-130	Pass	
o-Xylene			%	119			70-130	Pass	
Xylenes - Total			%	117			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010									
Naphthalene			%	97			70-130	Pass	
TRH C6-C10			%	104			70-130	Pass	
TRH >C10-C16			%	102			70-130	Pass	
LCS - % Recovery									
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)									
Acenaphthene			%	116			70-130	Pass	
Acenaphthylene			%	105			70-130	Pass	
Anthracene			%	126			70-130	Pass	
Benz(a)anthracene			%	111			70-130	Pass	
Benzo(a)pyrene			%	120			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene			%	119			70-130	Pass	
Benzo(g,h,i)perylene			%	127			70-130	Pass	
Chrysene			%	115			70-130	Pass	
Dibenz(a,h)anthracene			%	122			70-130	Pass	
Fluoranthene			%	112			70-130	Pass	
Fluorene			%	107			70-130	Pass	
Indeno(1,2,3-cd)pyrene			%	121			70-130	Pass	
Naphthalene			%	114			70-130	Pass	
Phenanthrene			%	125			70-130	Pass	
Pyrene			%	111			70-130	Pass	
LCS - % Recovery									
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury									
Arsenic			%	84			70-130	Pass	
Cadmium			%	83			70-130	Pass	
Chromium			%	89			70-130	Pass	
Copper			%	116			70-130	Pass	
Lead			%	83			70-130	Pass	
Mercury			%	98			70-130	Pass	
Nickel			%	92			70-130	Pass	
Zinc			%	83			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions									
				Result 1					
TRH C6-C9	S13-My14184	NCP	%	86			70-130	Pass	
TRH C10-C14	S13-My17569	NCP	%	80			70-130	Pass	
Spike - % Recovery									
BTEX									
				Result 1					
Benzene	S13-My14184	NCP	%	101			70-130	Pass	
Toluene	S13-My14184	NCP	%	102			70-130	Pass	
Ethylbenzene	S13-My14184	NCP	%	105			70-130	Pass	
m&p-Xylenes	S13-My14184	NCP	%	105			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
o-Xylene	S13-My14184	NCP	%	106			70-130	Pass	
Xylenes - Total	S13-My14184	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1					
Naphthalene	S13-My14184	NCP	%	99			70-130	Pass	
TRH C6-C10	S13-My14184	NCP	%	92			70-130	Pass	
TRH >C10-C16	S13-My17569	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Polyaromatic Hydrocarbons (PAH)				Result 1					
Acenaphthene	S13-My15386	NCP	%	128			70-130	Pass	
Acenaphthylene	S13-My15386	NCP	%	115			70-130	Pass	
Anthracene	S13-My15386	NCP	%	118			70-130	Pass	
Benz(a)anthracene	S13-My15386	NCP	%	119			70-130	Pass	
Benzo(a)pyrene	S13-My15386	NCP	%	123			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My15386	NCP	%	124			70-130	Pass	
Benzo(g,h,i)perylene	S13-My15386	NCP	%	123			70-130	Pass	
Chrysene	S13-My15386	NCP	%	129			70-130	Pass	
Dibenz(a,h)anthracene	S13-My15386	NCP	%	129			70-130	Pass	
Fluoranthene	S13-My15386	NCP	%	126			70-130	Pass	
Fluorene	S13-My15386	NCP	%	118			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S13-My15386	NCP	%	129			70-130	Pass	
Naphthalene	S13-My15386	NCP	%	129			70-130	Pass	
Phenanthrene	S13-My15386	NCP	%	125			70-130	Pass	
Pyrene	S13-My15386	NCP	%	124			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My12863	CP	%	86			70-130	Pass	
Cadmium	S13-My12863	CP	%	100			70-130	Pass	
Chromium	S13-My12863	CP	%	92			70-130	Pass	
Copper	S13-My15379	NCP	%	120			70-130	Pass	
Lead	S13-My12863	CP	%	97			70-130	Pass	
Mercury	S13-My12863	CP	%	90			70-130	Pass	
Nickel	S13-My12863	CP	%	114			70-130	Pass	
Zinc	S13-My12863	CP	%	103			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S13-My14189	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-My14189	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-My14189	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S13-My14189	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My14189	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-My14189	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-My14189	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-My14189	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-My14189	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-My14189	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My14189	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-My14189	NCP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C10 less BTEX (F1)	S13-My14189	NCP	mg/kg	< 20	< 20	<1	30%	Pass
TRH >C10-C16	S13-My14189	NCP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S13-My14189	NCP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S13-My14189	NCP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD		
Acenaphthene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My15386	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Benzo(g,h,i)perylene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S13-My15386	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	S13-My12863	CP	mg/kg	3.2	2.9	10	30%	Pass
Cadmium	S13-My12863	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S13-My12863	CP	mg/kg	6.7	7.2	7.0	30%	Pass
Copper	S13-My12863	CP	mg/kg	31	32	5.0	30%	Pass
Lead	S13-My12863	CP	mg/kg	17	21	19	30%	Pass
Mercury	S13-My12863	CP	mg/kg	0.07	0.09	25	30%	Pass
Nickel	S13-My12863	CP	mg/kg	23	23	<1	30%	Pass
Zinc	S13-My12863	CP	mg/kg	28	29	4.0	30%	Pass

Comments

Sample Integrity

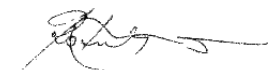
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

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

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Uncertainty data is available on request

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 107357

coffey environments
SPECIALISTS IN ENVIRONMENTAL,
SOCIAL AND SAFETY PERFORMANCE

Consigning Office: CHATSWOOD
Report Results to: Matthew Locke
Invoices to:

Mobile: 0427202493 Email: matthew.locke@coffey.com
Phone: Email: @coffey.com

Project No: GEOTLCOV24303AH Task No:
Project Name: ICC HOTEL Laboratory: MAT LABMARK
Sampler's Name: Charlie Lee. Project Manager: M. Locke
Special Instructions:

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)
	BH20S-0.1-0.2	16/5		SOIL	JAR	Standard
	BH20S-0.1-0.2	"		"	ZIP BAG	"
	BH20S-0.5-0.6	"		"	JAR	"
	BH20S-0.5-0.6	"		"	ZIP BAG	"
	BH20S-0.9-1.0	"		"	JAR	"
	BH20S-0.9-1.0	"		"	ZIP BAG	"
	BH20S-2.0-2.3S	"		"	JAR	"

NOTES

#379367

RELINQUISHED BY

Name: G. LEE Date: 16/5/13
Coffey Environments Time: 2:15pm
Name: Date:
Company: Time:

RECEIVED BY

Name: SUE Date: 16/5/13
Company: EUROFIN MGT Time: 2:15 PM
Name: Ellen W Date: 16/5/13
Company: Environments Mgt Time: 17:00

Sample Receipt Advice: (Lab Use Only)

All Samples Received in Good Condition ☒
All Documentation is in Proper Order ☒
Samples Received Properly Chilled ☒
Lab. Ref/Batch No.

*Container Type & Preservation Codes: P - Plastic, G - Glass Bottle, J - Glass Jar, V - Vial, Z - Ziplock Bag, N - Nitric Acid Preserved, C - Hydrochloric Acid Preserved, S - Sulphuric Acid Preserved, I - Ice, ST - Sodium Thiosulfate, NP - No Preservative, OP - Other Preservative

379367 369357

Sample Receipt Advice

Company name: **Coffey Geotechnics Pty Ltd Chatswood**
Contact name: **Matthew Locke**
Client job number: **ICC HOTEL GEOTLCOV24303AH**
COC number: **107357**
Turn around time: **5 Day**
Date/Time received: **May 20, 2013 7:15 AM**
Eurofins | mgt reference: **379367**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 5.5 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Samples received 16/5/13 - analysis received 20/5/13 - TAT adjusted accordingly

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: jean.heng@mgtlabmark.com.au

Results will be delivered electronically via e.mail to Matthew Locke - Matthew_Locke@coffey.com.

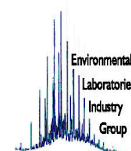
Eurofins | mgt Sample Receipt



Environmental Laboratory
Air Analysis
Water Analysis
Soil Contamination Analysis

NATA Accreditation
Stack Emission Sampling & Analysis
Trade Waste Sampling & Analysis
Groundwater Sampling & Analysis

38 Years of Environmental Analysis & Experience



Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Client Job No.: ICC HOTEL GEOTLCOV24303AH

Order No.:
Report #: 379367
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 20, 2013 7:15 AM
Due: May 27, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins mgt Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
BH205_0.1-0.2	May 16, 2013		Soil	S13-My14257			X		
BH205_0.1-0.2 BAG	May 16, 2013		Soil	S13-My14258			X		
BH205_0.5-0.6	May 16, 2013		Soil	S13-My14259	X			X	X
BH205_0.5-0.6 BAG	May 16, 2013		Soil	S13-My14260		X			
BH205_0.9-1.0	May 16, 2013		Soil	S13-My14261	X			X	X
BH205_0.9-1.0 BAG	May 16, 2013		Soil	S13-My14262			X		
BH205_2.0-2.35	May 16, 2013		Soil	S13-My14263	X			X	X

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: Matthew Locke

Report 379367-S
Client Reference ICC HOTEL GEOTLCOV24303AH
Received Date May 20, 2013



Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Client Sample ID			BH205_0.5-0.6	BH205_0.5-0.6_BAG	BH205_0.9-1.0	BH205_2.0-2.35
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My14259	S13-My14260	S13-My14261	S13-My14263
Date Sampled			May 16, 2013	May 16, 2013	May 16, 2013	May 16, 2013
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	-	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	93	-	93	88
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
Polyaromatic Hydrocarbons (PAH)						
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	-	< 1	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			BH205_0.5-0.6	BH205_0.5-0.6_BAG	BH205_0.9-1.0	BH205_2.0-2.35
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My14259	S13-My14260	S13-My14261	S13-My14263
Date Sampled			May 16, 2013	May 16, 2013	May 16, 2013	May 16, 2013
Test/Reference	LOR	Unit				
Polyaromatic Hydrocarbons (PAH)						
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH	1	mg/kg	< 1	-	< 1	< 1
2-Fluorobiphenyl (surr.)	1	%	118	-	117	120
p-Terphenyl-d14 (surr.)	1	%	97	-	89	99
Heavy Metals						
Arsenic	2	mg/kg	< 2	-	7.4	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	-	5.2	5.5
Copper	5	mg/kg	58	-	11	5.6
Lead	5	mg/kg	< 5	-	12	12
Mercury	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Nickel	5	mg/kg	110	-	< 5	< 5
Zinc	5	mg/kg	55	-	8.0	24
% Moisture	0.1	%	8.5	-	13	11
Asbestos			-	see attached	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 21, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 21, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 21, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polyaromatic Hydrocarbons (PAH)	Sydney	May 21, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	May 21, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	May 21, 2013	28 Day
- Method: E005 Moisture Content			

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
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Report #: 379367
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Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins mgt Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
BH205_0.1-0.2	May 16, 2013		Soil	S13-My14257			X		
BH205_0.1-0.2 BAG	May 16, 2013		Soil	S13-My14258			X		
BH205_0.5-0.6	May 16, 2013		Soil	S13-My14259	X			X	X
BH205_0.5-0.6 BAG	May 16, 2013		Soil	S13-My14260		X			
BH205_0.9-1.0	May 16, 2013		Soil	S13-My14261	X			X	X
BH205_0.9-1.0 BAG	May 16, 2013		Soil	S13-My14262			X		
BH205_2.0-2.35	May 16, 2013		Soil	S13-My14263	X			X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

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

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

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

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

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

QC - ACCEPTANCE CRITERIA

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

Results <10 times the LOR : No Limit

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

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

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

QC DATA GENERAL COMMENTS

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

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/kg	< 1			1	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14				%	77			70-130	Pass	
LCS - % Recovery										
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010										
TRH >C10-C16				%	84			70-130	Pass	
LCS - % Recovery										
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons (PAH)										
Acenaphthene				%	118			70-130	Pass	
Acenaphthylene				%	116			70-130	Pass	
Anthracene				%	124			70-130	Pass	
Benz(a)anthracene				%	111			70-130	Pass	
Benzo(a)pyrene				%	105			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene				%	109			70-130	Pass	
Benzo(g,h,i)perylene				%	104			70-130	Pass	
Chrysene				%	118			70-130	Pass	
Dibenz(a,h)anthracene				%	96			70-130	Pass	
Fluoranthene				%	118			70-130	Pass	
Fluorene				%	111			70-130	Pass	
Indeno(1,2,3-cd)pyrene				%	99			70-130	Pass	
Naphthalene				%	118			70-130	Pass	
Phenanthrene				%	120			70-130	Pass	
Pyrene				%	119			70-130	Pass	
LCS - % Recovery										
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury										
Arsenic				%	89			70-130	Pass	
Cadmium				%	99			70-130	Pass	
Chromium				%	93			70-130	Pass	
Copper				%	104			70-130	Pass	
Lead				%	98			70-130	Pass	
Mercury				%	107			70-130	Pass	
Nickel				%	95			70-130	Pass	
Zinc				%	106			70-130	Pass	
Test	Lab Sample ID	QA Source		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					Result 1					
TRH C6-C9	S13-My16846	NCP		%	73			70-130	Pass	
Spike - % Recovery										
BTEX					Result 1					
Benzene	S13-My16846	NCP		%	89			70-130	Pass	
Toluene	S13-My16846	NCP		%	90			70-130	Pass	
Ethylbenzene	S13-My16846	NCP		%	92			70-130	Pass	
m&p-Xylenes	S13-My16846	NCP		%	91			70-130	Pass	
o-Xylene	S13-My16846	NCP		%	91			70-130	Pass	
Xylenes - Total	S13-My16846	NCP		%	91			70-130	Pass	
Spike - % Recovery										
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions					Result 1					
Naphthalene	S13-My16846	NCP		%	84			70-130	Pass	
TRH C6-C10	S13-My16846	NCP		%	71			70-130	Pass	
Spike - % Recovery										
Polyaromatic Hydrocarbons (PAH)					Result 1					
Acenaphthene	S13-My11997	NCP		%	129			70-130	Pass	
Acenaphthylene	S13-My11997	NCP		%	125			70-130	Pass	
Anthracene	S13-My11997	NCP		%	124			70-130	Pass	
Benz(a)anthracene	S13-My11997	NCP		%	126			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(a)pyrene	S13-My11997	NCP	%	129			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My11997	NCP	%	124			70-130	Pass	
Benzo(g,h,i)perylene	S13-My11997	NCP	%	110			70-130	Pass	
Chrysene	S13-My11997	NCP	%	103			70-130	Pass	
Dibenz(a,h)anthracene	S13-My11997	NCP	%	129			70-130	Pass	
Fluoranthene	S13-My11997	NCP	%	114			70-130	Pass	
Fluorene	S13-My11997	NCP	%	125			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S13-My11997	NCP	%	125			70-130	Pass	
Naphthalene	S13-My11997	NCP	%	125			70-130	Pass	
Phenanthrene	S13-My11997	NCP	%	123			70-130	Pass	
Pyrene	S13-My11997	NCP	%	126			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My16588	NCP	%	94			70-130	Pass	
Cadmium	S13-My16588	NCP	%	84			70-130	Pass	
Chromium	S13-My16588	NCP	%	84			70-130	Pass	
Copper	S13-My16282	NCP	%	73			70-130	Pass	
Lead	S13-My11997	NCP	%	117			70-130	Pass	
Mercury	S13-My16588	NCP	%	86			70-130	Pass	
Nickel	S13-My16588	NCP	%	93			70-130	Pass	
Zinc	S13-My17014	NCP	%	80			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polyaromatic Hydrocarbons (PAH)				Result 1	Result 2	RPD			
Acenaphthene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	S13-My11997	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Benzo(g,h,i)perylene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S13-My11997	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	S13-My16588	NCP	mg/kg	5.7	7.4	27	30%	Pass	
Cadmium	S13-My16588	NCP	mg/kg	0.98	0.95	3.0	30%	Pass	
Chromium	S13-My16588	NCP	mg/kg	14	22	42	30%	Fail	Q13
Copper	S13-My16282	NCP	mg/kg	32	29	10	30%	Pass	
Lead	S13-My16588	NCP	mg/kg	260	320	20	30%	Pass	
Mercury	S13-My16588	NCP	mg/kg	0.17	0.20	20	30%	Pass	
Nickel	S13-My16588	NCP	mg/kg	14	23	49	30%	Fail	Q13
Zinc	S13-My16588	NCP	mg/kg	610	700	14	30%	Pass	

Comments

Please note: Asbestos analysed by ASET (Job : ASET33371/36551/1-1) NATA Accreditation : 14484

Sample Integrity

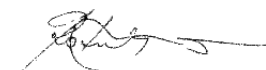
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
Q13	Some elements for this test have failed in the QC sample. However when at least 80% have passed the QC can be released. All other QC has passed in this test batch

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Uncertainty data is available on request

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

[illegible]

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

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

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

4.5 22/5/13 4-40PM.

380011

Sa fd

-----Original Message-----

From: Matthew Locke [mailto:Matthew.Locke@coffey.com]

Sent: Thursday, 23 May 2013 8:37 AM

To: Enviro Syd

Cc: Enquiries Syd

Subject: RE: Eurofins | mgt Sample Receipt Advice - Report 380011 ;
Site GEOTLCOV24303AH

Dear MGT,

Please find enclosed testing instructions for samples within batch 380011.

Please let me know if you have any queries regarding the enclosed.

Thanks and regards,

Matt

* 380011

See 19

Site: ICC Hotel, Darling Harbour

Coffey Project Ref: GEOTLCOV24303AH

COC Reference: 20980

Lab Batch Reference: 380011

Sample Ref	Container Type	Analysis Requested				
		Suite B4 (TPH/BTEX/PAH)	Suite M8 (Metals)	Asbestos	ASS Screening (pH _F /pH _{FOX})	BTEX & TPH C6-C9
BH208_0.2-0.3	Jar					
BH208_0.2-0.3	Zip bag					
BH208_0.5-0.6	Jar	X	X	X		
BH208_0.5-0.6	Zip bag					
BH208_1.0-1.1	Jar					
BH208_1.0-1.1	Zip bag					
BH208_2.0-2.1	Jar	X	X			
BH208_2.0-2.1	Zip bag					
BH208_3.0-3.1	Jar	X	X			
BH208_3.0-3.1	Zip bag					
BH208 DUP 3.0-3.1_A**	Jar	X	X			

** Please report Samples 'BH208 DUP 3.0-3.1_A' as 'BH208 3.0-3.1_A' to remain consistent with the nomenclature used in other investigation positions at this site.

Sample Receipt Advice

Company name: **Coffey Geotechnics Pty Ltd Chatswood**
Contact name: **Matthew Locke**
Client job number: **GEOTLCOV24303AH**
COC number: **20980**
Turn around time: **Same day**
Date/Time received: **May 22, 2013 4:40 PM**
Eurofins | mgt reference: **380011**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 4.5 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Jar and bag treated as the same sample unless otherwise stated

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: jean.heng@mgtlabmark.com.au

Results will be delivered electronically via e.mail to Matthew Locke - Matthew_Locke@coffey.com.

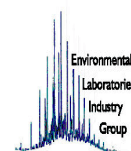
Eurofins | mgt Sample Receipt



Environmental Laboratory
Air Analysis
Water Analysis
Soil Contamination Analysis

NATA Accreditation
Stack Emission Sampling & Analysis
Trade Waste Sampling & Analysis
Groundwater Sampling & Analysis

38 Years of Environmental Analysis & Experience



Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: Matthew Locke

Report 380011-S
Client Reference ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
Received Date May 23, 2013



Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Client Sample ID			BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m	BH208 DUP 3-3.1m
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My18848	S13-My18850	S13-My18851	S13-My18852
Date Sampled			May 21, 2013	May 21, 2013	May 21, 2013	May 21, 2013
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	94	91	77	84
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH208 0.5-0.6m	BH208 2-2.1m	BH208 3-3.1m	BH208 DUP 3-3.1mA
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My18848	S13-My18850	S13-My18851	S13-My18852
Date Sampled			May 21, 2013	May 21, 2013	May 21, 2013	May 21, 2013
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH	1	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
p-Terphenyl-d14 (surr.)	1	%	73	71	74	70
2-Fluorobiphenyl (surr.)	1	%	85	76	76	81
Heavy Metals						
Arsenic	2	mg/kg	4.4	5.3	4.5	4.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	24	< 5	< 5	5.9
Lead	5	mg/kg	14	< 5	< 5	< 5
Mercury	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	5	mg/kg	9.6	< 5	< 5	< 5
Zinc	5	mg/kg	40	7.5	270	250
% Moisture	0.1	%	6.4	4.8	20	19
Asbestos			see attached	-	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	May 27, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	May 24, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions	Sydney	May 27, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	May 27, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	May 24, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	May 24, 2013	28 Day
- Method: E005 Moisture Content			

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380011
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 23, 2013 8:37 AM
Due: May 30, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Metals M8	Eurofins mgt Suite 4
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X		X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory						X			
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
BH208 0.2-0.3m	May 21, 2013		Soil	S13-My18847			X		
BH208 0.5-0.6m	May 21, 2013		Soil	S13-My18848	X	X		X	X
BH208 1-1.1m	May 21, 2013		Soil	S13-My18849			X		
BH208 2-2.1m	May 21, 2013		Soil	S13-My18850	X			X	X
BH208 3-3.1m	May 21, 2013		Soil	S13-My18851	X			X	X
BH208 DUP 3-3.1mA	May 21, 2013		Soil	S13-My18852	X			X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

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

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

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

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

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

QC - ACCEPTANCE CRITERIA

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

Results <10 times the LOR : No Limit

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

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

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

QC DATA GENERAL COMMENTS

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

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	%	93			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14			%	100			70-130	Pass	
LCS - % Recovery									
BTEX E029/E016 BTEX									
Benzene			%	107			70-130	Pass	
Toluene			%	102			70-130	Pass	
Ethylbenzene			%	101			70-130	Pass	
m&p-Xylenes			%	107			70-130	Pass	
o-Xylene			%	107			70-130	Pass	
Xylenes - Total			%	107			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010									
Naphthalene			%	108			70-130	Pass	
TRH C6-C10			%	97			70-130	Pass	
TRH >C10-C16			%	110			70-130	Pass	
LCS - % Recovery									
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)									
Acenaphthene			%	97			70-130	Pass	
Acenaphthylene			%	81			70-130	Pass	
Anthracene			%	91			70-130	Pass	
Benz(a)anthracene			%	88			70-130	Pass	
Benzo(a)pyrene			%	91			70-130	Pass	
Benzo(g,h,i)perylene			%	87			70-130	Pass	
Chrysene			%	92			70-130	Pass	
Dibenz(a,h)anthracene			%	88			70-130	Pass	
Fluoranthene			%	88			70-130	Pass	
Fluorene			%	94			70-130	Pass	
Indeno(1,2,3-cd)pyrene			%	87			70-130	Pass	
Naphthalene			%	94			70-130	Pass	
Phenanthrene			%	91			70-130	Pass	
Pyrene			%	86			70-130	Pass	
LCS - % Recovery									
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury									
Arsenic			%	94			70-130	Pass	
Cadmium			%	88			70-130	Pass	
Chromium			%	80			70-130	Pass	
Copper			%	101			70-130	Pass	
Lead			%	106			70-130	Pass	
Mercury			%	105			70-130	Pass	
Nickel			%	89			70-130	Pass	
Zinc			%	106			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S13-My19515	NCP	%	91			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My19530	NCP	%	100			70-130	Pass	
Toluene	S13-My19530	NCP	%	95			70-130	Pass	
Ethylbenzene	S13-My19530	NCP	%	94			70-130	Pass	
m&p-Xylenes	S13-My19530	NCP	%	105			70-130	Pass	
o-Xylene	S13-My19530	NCP	%	103			70-130	Pass	
Xylenes - Total	S13-My19515	NCP	%	104			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1					
Naphthalene	S13-My19530	NCP	%	82			70-130	Pass	
TRH C6-C10	S13-My19515	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My18807	NCP	%	91			70-130	Pass	
Cadmium	S13-My18807	NCP	%	76			70-130	Pass	
Chromium	S13-My18807	NCP	%	106			70-130	Pass	
Copper	S13-My18807	NCP	%	126			70-130	Pass	
Lead	S13-My18807	NCP	%	81			70-130	Pass	
Mercury	S13-My18807	NCP	%	107			70-130	Pass	
Nickel	S13-My18807	NCP	%	98			70-130	Pass	
Zinc	S13-My18807	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S13-My18852	CP	%	82			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1					
TRH >C10-C16	S13-My18852	CP	%	89			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-My18852	CP	%	107			70-130	Pass	
Acenaphthylene	S13-My18852	CP	%	88			70-130	Pass	
Anthracene	S13-My18852	CP	%	102			70-130	Pass	
Benz(a)anthracene	S13-My18852	CP	%	97			70-130	Pass	
Benzo(a)pyrene	S13-My18852	CP	%	100			70-130	Pass	
Benzo(g,h,i)perylene	S13-My18852	CP	%	93			70-130	Pass	
Chrysene	S13-My18852	CP	%	104			70-130	Pass	
Dibenz(a,h)anthracene	S13-My18852	CP	%	93			70-130	Pass	
Fluoranthene	S13-My18852	CP	%	100			70-130	Pass	
Fluorene	S13-My18852	CP	%	105			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S13-My18852	CP	%	94			70-130	Pass	
Naphthalene	S13-My18852	CP	%	103			70-130	Pass	
Phenanthrene	S13-My18852	CP	%	105			70-130	Pass	
Pyrene	S13-My18852	CP	%	99			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S13-My19515	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My19530	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-My19530	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-My19530	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-My19530	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-My19530	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-My19515	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My19530	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-My19515	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My19515	NCP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	S13-My18807	NCP	mg/kg	5.6	4.7	19	30%	Pass
Cadmium	S13-My18807	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S13-My18807	NCP	mg/kg	15	10	40	30%	Fail
Copper	S13-My18807	NCP	mg/kg	23	21	7.0	30%	Pass
Lead	S13-My18807	NCP	mg/kg	43	36	19	30%	Pass
Mercury	S13-My18807	NCP	mg/kg	< 0.05	0.11	95	30%	Fail
Nickel	S13-My18807	NCP	mg/kg	14	11	29	30%	Pass
Zinc	S13-My18807	NCP	mg/kg	60	47	24	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	S13-My18852	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S13-My18852	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S13-My18852	CP	mg/kg	< 50	< 50	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S13-My18852	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S13-My18852	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S13-My18852	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S13-My18852	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Comments

Asbestos analysed by: ASET, NATA accreditation no. 14484, report reference ASET33435/ 36615 / 1 - 1.

Sample Integrity

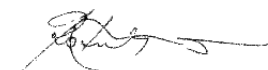
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

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

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Uncertainty data is available on request

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



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET33435/ 36615 / 1 - 1

Your ref : 380011

NATA Accreditation No: 14484

29 May 2013

Eurofins | mgt
Unit F3, Building F, 16, Mars Road
Lane Cove NSW 2066

Attn: Dr Robert Symons
Laboratory & Technical Manager

Dear Robert

Asbestos Identification

This report presents the results of one sample, forwarded by Eurofins MGT on 27 May 2013, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (**Safer Environment Method 1.**)

3. Results : **Sample No. 1. ASET33435 / 36615 / 1. 380011 - BH208 - 0.5 - 0.6m - My18848.**
Approx dimensions 6.0 cm x 6.0 cm x 2..0 cm
The sample consisted of a mixture of clayish sandy soil, sandstones and plant matter.
No asbestos detected.

Analysed and reported by,

Mahen De Silva. BSc, MSc, Grad Dip (Occ Hyg)
Occupational Hygienist / Approved Identifier.
Approved Signatory



This document is issued in accordance with
NATA's Accreditation requirements. Accredited
for compliance with ISO/IEC 17025.

SUITE 710 / 90 GEORGE STREET, HORNSBY NSW 2077 – P.O. BOX 1644 HORNSBY WESTFIELD NSW 1635

PHONE: (02) 99872183 FAX: (02) 99872151 EMAIL: aset@bigpond.net.au WEBSITE: www.Ausset.com.au

OCCUPATIONAL HEALTH & SAFETY STUDIES • INDOOR AIR QUALITY SURVEYS • HAZARDOUS MATERIAL SURVEYS • RADIATION SURVEYS • ASBESTOS SURVEYS
ASBESTOS DETECTION & IDENTIFICATION • REPAIR & CALIBRATION OF SCIENTIFIC EQUIPMENT • AIRBORNE FIBRE & SILICA MONITORING

Laboratory Quotation / Order No: LEAT/16/21/304 Job No:

Job No:

Dispatch to: (Address & Phone No.)		Sampled by: CHARLIE LEE		Consigning Officer: Date Dispatched: #380167													
Attention:		Project Manager: (report results to) MATT LOCKER matthew.locker@coffey.com		Courier Service: Consignment Note No:													
Relinquished by: CHARLIE LEE COFFEY		Date: 23/5/13	Time: 2pm	Received by: SOE EUROFIN MGT	Date: 23/5/13	Time: 2pm											
Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required												Sample Condition on Receipt
					PAHs	TPHs	MAHs = BTEX	Metals:	AS SCREENING								
Hold testing instruction until further notice from Matt		Jar	BH202 0.1-0.2														
		Zip Bag	BH202 0.1-0.2														
		Jar	BH202 0.5-0.6														
		Zip Bag	BH202 0.5-0.6														
		Jar	BH202 0.6-0.7														
		Zip Bag	BH202 0.6-0.7														
		Jar	DUP 4														
		Zip Bag	AS 0.6-0.7 BH202														
Special Laboratory Instructions:																	
Detection Limits: Turnaround Required: JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES																	

Site: ICC Hotel, Darling Harbour

Coffey Project Ref: GEOTLCOV24303AH

Lab Batch Reference: 380167

Sample Ref	Container Type	Analysis Requested				
		Suite B4 (TPH/BTEX/PAH)	Suite M8 (Metals)	Asbestos	ASS Screening (pH _F /pH _{ox})	BTEX & TPH C6-C9
BH202 0.1-0.2	Jar	X	X			
BH202 0.1-0.2	Zip bag					
BH202 0.5-0.6	Jar	X	X			
BH202 0.5-0.6	Zip bag			X		
BH202 0.6-0.7	Jar					
BH202 0.6-0.7	Zip bag					
DUP4	Jar	X	X			
ASS_BH202 0.6-0.7	Zip bag				X	

Recd 240513 17.50 Ellen W6 Eurofins mgt G22 #380167

-----Original Message-----

From: Matthew Locke [mailto:Matthew.Locke@coffey.com]
Sent: Friday, 24 May 2013 5:52 PM
To: Enviro Syd
Cc: Enquiries Syd
Subject: RE: Eurofins | mgt Sample Receipt Advice - Report 380167 : Site
GEOTLCOV24303AH

Dear MGT,

Please find enclosed testing instructions for batch 380167 for the ICC Hotel site in Darling Harbour

Please let me know if you have any queries.

Regards,

Matt

WZ # 380167

-----Original Message-----

From: enviro.syd@mgtlabmark.com.au [mailto:enviro.syd@mgtlabmark.com.au]
Sent: Friday, 24 May 2013 10:27 AM
To: Matthew Locke
Subject: Eurofins | mgt Sample Receipt Advice - Report 380167 : Site
GEOTLCOV24303AH

Dear Valued Client,

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins mgt Client Services Manager as soon as possible to make certain that they get changed.

Please send all reply correspondence to enviro.syd@mgtLabMark.com.au noting the MGT Lab Reference in the subject header.

Kind regards

Sean Oxenford

Administration/ Sample Receipt

admin.syd@mgtLabMark.com.au

Unit F6, Unit F3,
Building F
16 Mars Road
Lane Cove West, NSW 2066
T: (+61) (2) 8215 6222
F: (+61) (2) 9420 2977

M: 04xxxxxxxx

P Please consider the environment before printing this email

Sample Receipt Advice

Company name: **Coffey Geotechnics Pty Ltd Chatswood**

Contact name: **Matthew Locke**
Client job number: **GEOTLCOV24303AH**
COC number: **20981**
Turn around time: **5 Day**
Date/Time received: **May 23, 2013 4:30 PM**
Eurofins | mgt reference: **380167**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt
Sample Receipt : 19 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Sampling date taken from jar/bag

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: jean.heng@mgtlabmark.com.au

Results will be delivered electronically via e.mail to Matthew Locke - Matthew_Locke@coffey.com.

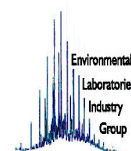
Eurofins | mgt Sample Receipt



Environmental Laboratory
Air Analysis
Water Analysis
Soil Contamination Analysis

NATA Accreditation
Stack Emission Sampling & Analysis
Trade Waste Sampling & Analysis
Groundwater Sampling & Analysis

38 Years of Environmental Analysis & Experience



Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380167
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 24, 2013 5:50 PM
Due: Jun 3, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	Metals M8	Eurofins mgt Suite 4
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
BH202 0.1-0.2	May 23, 2013		Soil	S13-My20052	X				X	X
BH202 0.1-0.2 BAG	May 23, 2013		Soil	S13-My20053			X			
BH202 0.5-0.6	May 23, 2013		Soil	S13-My20054	X				X	X
BH202 0.5-0.6 BAG	May 23, 2013		Soil	S13-My20055		X				
BH202 0.6-0.7	May 23, 2013		Soil	S13-My20056			X			
BH202 0.6-0.7 BAG	May 23, 2013		Soil	S13-My20057			X			
DUP4	May 23, 2013		Soil	S13-My20058	X				X	X

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380167
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 24, 2013 5:50 PM
Due: Jun 3, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	Metals M8	Eurofins mgt Suite 4
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
ASS_BH202 0.6-0.7	May 23, 2013		Soil	S13-My20059				X		

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: Matthew Locke

Report 380167-S
Client Reference ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
Received Date May 24, 2013



Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	BH202 0.1-0.2 Soil S13-My20052 May 23, 2013	BH202 0.5-0.6 Soil S13-My20054 May 23, 2013	BH202 0.5-0.6 BAG Soil S13-My20055 May 23, 2013	DUP4 Soil S13-My20058 May 23, 2013
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	83	< 50	-	< 50
TRH C29-C36	50	mg/kg	230	55	-	< 50
TRH C10-36 (Total)	50	mg/kg	310	55	-	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	91	88	-	94
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	260	< 100	-	< 100
TRH >C34-C40	100	mg/kg	200	< 100	-	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5

Client Sample ID			BH202 0.1-0.2	BH202 0.5-0.6	BH202 0.5-0.6	DUP4
Sample Matrix			Soil	Soil	BAG	Soil
Eurofins mgt Sample No.			S13-My20052	S13-My20054	S13-My20055	S13-My20058
Date Sampled			May 23, 2013	May 23, 2013	May 23, 2013	May 23, 2013
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH	1	mg/kg	< 0.5	< 0.5	-	< 0.5
p-Terphenyl-d14 (surr.)	1	%	78	74	-	72
2-Fluorobiphenyl (surr.)	1	%	93	91	-	87
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.5	-	5.5
Cadmium	0.4	mg/kg	< 0.4	0.5	-	0.5
Chromium	5	mg/kg	25	< 5	-	< 5
Copper	5	mg/kg	66	33	-	37
Lead	5	mg/kg	5.8	35	-	41
Mercury	0.05	mg/kg	< 0.05	29	-	35
Nickel	5	mg/kg	130	41	-	50
Zinc	5	mg/kg	60	140	-	160
% Moisture	0.1	%	9.9	8.3	-	9.9
Asbestos			-	-	see attached	-

Client Sample ID			ASS_BH202
Sample Matrix			0.6-0.7
Eurofins mgt Sample No.			Soil
Date Sampled			S13-My20059
Test/Reference	LOR	Unit	May 23, 2013
Acid Sulphate Soils Field pH Test			
pH-F (Field pH test)	0.1	units	8.2
pH-FOX (Field pH Peroxide test)	0.1	units	5.8
Reaction Ratings		comment	Low

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: E004 Petroleum Hydrocarbons (TPH)	Sydney	May 28, 2013	14 Day
BTEX - Method: E029/E016 BTEX	Sydney	May 25, 2013	14 Day
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions - Method: LM-LTM-ORG2010	Sydney	May 28, 2013	14 Day
Polycyclic Aromatic Hydrocarbons - Method: E007 Polyaromatic Hydrocarbons (PAH)	Sydney	May 28, 2013	14 Day
Metals M8 - Method: E022 Acid Extractable metals in Soils & E026 Mercury	Sydney	May 25, 2013	28 Day
Acid Sulphate Soils Field pH Test - Method: Acid Sulphate Soils Guideline Series	Sydney	May 27, 2013	7 Day
% Moisture - Method: E005 Moisture Content	Sydney	May 25, 2013	28 Day

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

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

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

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

UNITS

mg/kg: milligrams per Kilogram

mg/l: milligrams per litre

ug/l: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100ml: Organisms per 100 millilitres

NTU: Units

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

TERMS

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

QC - ACCEPTANCE CRITERIA

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

Results <10 times the LOR : No Limit

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

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

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

QC DATA GENERAL COMMENTS

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

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions E004 Petroleum Hydrocarbons (TPH)							
TRH C6-C9	%	102			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14			%	81			70-130	Pass	
LCS - % Recovery									
BTEX E029/E016 BTEX									
Benzene			%	102			70-130	Pass	
Toluene			%	101			70-130	Pass	
Ethylbenzene			%	103			70-130	Pass	
m&p-Xylenes			%	101			70-130	Pass	
o-Xylene			%	102			70-130	Pass	
Xylenes - Total			%	101			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions LM-LTM-ORG2010									
Naphthalene			%	96			70-130	Pass	
TRH C6-C10			%	102			70-130	Pass	
TRH >C10-C16			%	88			70-130	Pass	
LCS - % Recovery									
Polycyclic Aromatic Hydrocarbons E007 Polyaromatic Hydrocarbons (PAH)									
Acenaphthene			%	95			70-130	Pass	
Acenaphthylene			%	81			70-130	Pass	
Anthracene			%	96			70-130	Pass	
Benz(a)anthracene			%	88			70-130	Pass	
Benzo(a)pyrene			%	90			70-130	Pass	
Benzo(g,h,i)perylene			%	84			70-130	Pass	
Chrysene			%	93			70-130	Pass	
Dibenz(a,h)anthracene			%	85			70-130	Pass	
Fluoranthene			%	91			70-130	Pass	
Fluorene			%	87			70-130	Pass	
Indeno(1,2,3-cd)pyrene			%	86			70-130	Pass	
Naphthalene			%	90			70-130	Pass	
Phenanthrene			%	94			70-130	Pass	
Pyrene			%	91			70-130	Pass	
LCS - % Recovery									
Metals M8 E022 Acid Extractable metals in Soils & E026 Mercury									
Arsenic			%	91			70-130	Pass	
Cadmium			%	97			70-130	Pass	
Chromium			%	96			70-130	Pass	
Copper			%	121			70-130	Pass	
Lead			%	92			70-130	Pass	
Mercury			%	101			70-130	Pass	
Nickel			%	98			70-130	Pass	
Zinc			%	109			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S13-My18954	NCP	%	106			70-130	Pass	
TRH C10-C14	S13-My18992	NCP	%	93			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-My18965	NCP	%	98			70-130	Pass	
Toluene	S13-My18965	NCP	%	98			70-130	Pass	
Ethylbenzene	S13-My18965	NCP	%	99			70-130	Pass	
m&p-Xylenes	S13-My18965	NCP	%	98			70-130	Pass	
o-Xylene	S13-My18965	NCP	%	99			70-130	Pass	
Xylenes - Total	S13-My18965	NCP	%	99			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1					
Naphthalene	S13-My18965	NCP	%	94			70-130	Pass	
TRH C6-C10	S13-My18965	NCP	%	97			70-130	Pass	
TRH >C10-C16	S13-My18992	NCP	%	103			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-My21299	NCP	%	98			70-130	Pass	
Acenaphthylene	S13-My21299	NCP	%	86			70-130	Pass	
Anthracene	S13-My21299	NCP	%	98			70-130	Pass	
Benz(a)anthracene	S13-My21299	NCP	%	96			70-130	Pass	
Benzo(a)pyrene	S13-My21299	NCP	%	92			70-130	Pass	
Benzo(g,h,i)perylene	S13-My21299	NCP	%	82			70-130	Pass	
Chrysene	S13-My21299	NCP	%	99			70-130	Pass	
Dibenz(a,h)anthracene	S13-My21299	NCP	%	87			70-130	Pass	
Fluoranthene	S13-My21299	NCP	%	97			70-130	Pass	
Fluorene	S13-My21299	NCP	%	91			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S13-My21299	NCP	%	88			70-130	Pass	
Naphthalene	S13-My21299	NCP	%	97			70-130	Pass	
Phenanthrene	S13-My21299	NCP	%	101			70-130	Pass	
Pyrene	S13-My21299	NCP	%	96			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	S13-My20439	NCP	%	108			70-130	Pass	
Cadmium	S13-My20439	NCP	%	102			70-130	Pass	
Chromium	S13-My20439	NCP	%	78			70-130	Pass	
Copper	S13-My20439	NCP	%	100			70-130	Pass	
Lead	S13-My20439	NCP	%	111			70-130	Pass	
Mercury	S13-My21556	NCP	%	104			70-130	Pass	
Nickel	S13-My20439	NCP	%	101			70-130	Pass	
Zinc	S13-My20439	NCP	%	85			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S13-My18954	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-My18992	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-My18992	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S13-My18992	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-My18965	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-My18965	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-My18965	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-My18965	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-My18965	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-My18965	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-My18965	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-My18965	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-My18965	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S13-My18992	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S13-My18992	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S13-My18992	NCP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S13-My21299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Metals M8				Result 1	Result 2	RPD		
Arsenic	S13-My20439	NCP	mg/kg	6.4	5.7	12	30%	Pass
Cadmium	S13-My20439	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S13-My20439	NCP	mg/kg	19	19	1.0	30%	Pass
Copper	S13-My20439	NCP	mg/kg	18	18	1.0	30%	Pass
Lead	S13-My20439	NCP	mg/kg	30	29	1.0	30%	Pass
Mercury	S13-My21556	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Nickel	S13-My20439	NCP	mg/kg	15	16	3.0	30%	Pass
Zinc	S13-My20439	NCP	mg/kg	53	49	7.0	30%	Pass

Comments

Asbestos analysed by: ASET, NATA Accreditation no.14484, report reference ASET33431/36611/1-1

Sample Integrity

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

Qualifier Codes/Comments

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

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)



Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

Uncertainty data is available on request

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Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380167
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 24, 2013 5:50 PM
Due: Jun 3, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	Metals M8	Eurofins mgt Suite 4
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
BH202 0.1-0.2	May 23, 2013		Soil	S13-My20052	X				X	X
BH202 0.1-0.2 BAG	May 23, 2013		Soil	S13-My20053			X			
BH202 0.5-0.6	May 23, 2013		Soil	S13-My20054	X				X	X
BH202 0.5-0.6 BAG	May 23, 2013		Soil	S13-My20055		X				
BH202 0.6-0.7	May 23, 2013		Soil	S13-My20056			X			
BH202 0.6-0.7 BAG	May 23, 2013		Soil	S13-My20057			X			
DUP4	May 23, 2013		Soil	S13-My20058	X				X	X

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380167
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 24, 2013 5:50 PM
Due: Jun 3, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	Metals M8	Eurofins mgt Suite 4
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
ASS_BH202 0.6-0.7	May 23, 2013		Soil	S13-My20059				X		



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref: ASET33431/ 36611 / 1 - 1

Your ref: 380167

NATA Accreditation No: 14484

28 May 2013

Eurofins | mgt
Unit F3, 16 Mars Road
Lane Cove NSW 2066

Attn: Dr Robert Symons
Laboratory & Technical Manager

Dear Robert

Asbestos Identification

This report presents the results of one sample, forwarded by Eurofins | mgt on 27 May 2013, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (**Safer Environment Method 1.**)

3. Results : **Sample No. 1. ASET33431 / 36611 / 1. BH202 - 0.1-0.2 BAG - My20053**
Approx dimensions 5.5 cm x 5.4 cm x 2.8 cm
The sample consisted of a mixture of soil, stones, sandstones and fragments of plaster.
No asbestos detected.

Analysed and reported by,

Nisansala Maddage. BSc(Hons)
Environmental Scientist/Approved Identifier

Mahen De Silva . BSc. MSc. Grad Dip (Occ Hyg)
Occupational Hygienist / Approved Signatory



This document is issued in accordance with NATA's Accreditation requirements. Accredited for compliance with ISO/IEC 17025.

SUITE 710 / 90 GEORGE STREET, HORNSBY NSW 2077 – P.O. BOX 1644 HORNSBY WESTFIELD NSW 1635

PHONE: (02) 99872183 FAX: (02)99872151 EMAIL: aset@bigpond.net.au WEBSITE: www.Ausset.com.au

OCCUPATIONAL HEALTH & SAFETY STUDIES • INDOOR AIR QUALITY SURVEYS • HAZARDOUS MATERIAL SURVEYS • RADIATION SURVEYS • ASBESTOS SURVEYS
ASBESTOS DETECTION & IDENTIFICATION • REPAIR & CALIBRATION OF SCIENTIFIC EQUIPMENT • AIRBORNE FIBRE & SILICA MONITORING

Dispatch to: (Address & Phone No.)		Sampled by: CHARLIE LEE		Consigning Officer:														
Attention:		Project Manager: (report results to) Matt Locke Matthew Locke @ Coffey.com		Date Dispatched:														
Relinquished by: CHARLIE LEE COFFEY		Date: 24/5/13		Time: 11am														
		Received by: SUE EUROFIN MGT Elmlyg Glast Eurofin Mgt		Date: 24/5/13														
				Time: 14:10														
Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required										Sample Condition on Receipt			
					PAHs	TPHs	MAHs = BTEX	Metals:	ASS Screening									
Hold testing until further instructions from Matt		Jar	BH203 0.1-0.2															
		Zip Bag	BH203 0.1-0.2															
		Jar	BH203 0.5-0.6															
		Zip Bag	BH203 0.5-0.6															
		Jar	BH203 0.9-1															
		Zip Bag	BH203 0.9-1															
		Jar	DUP 5															
		Jar	BH203 1.4-1.5															
		Zip Bag	BH203 1.4-1.5															
		Jar	BH203 1.8-2.1															
	Zip Bag	ASS 1.8-2.1																
Special Laboratory Instructions:																		
Detection Limits: Turnaround Required:																		
JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES																		

-----Original Message-----

From: Matthew Locke [mailto:Matthew.Locke@coffey.com]

Sent: Monday, 27 May 2013 5:35 PM

To: Enviro Syd

Cc: Enquiries Syd

Subject: RE: Eurofins | mgt Sample Receipt Advice - Report 380366 : Site HOLD: ICC
HOTEL DARLING HARBOUR GEOTLCOV24303AH

Dear MGT,

Please find enclosed testing instructions for batch 380366.

Please let us know if there are any queries.

Regards,

Matt

-----Original Message-----

From: enviro.syd@mgtlabmark.com.au [mailto:enviro.syd@mgtlabmark.com.au]

Sent: Saturday, 25 May 2013 2:30 PM

To: Matthew Locke

Subject: Eurofins | mgt Sample Receipt Advice - Report 380366 : Site HOLD: ICC
HOTEL DARLING HARBOUR GEOTLCOV24303AH

Dear Valued Client,

NOTE: this job is currently on HOLD awaiting your further advice. Please be aware that holding times for some analytes may run out shortly. Any samples that are received in our lab that have not been scheduled for testing may be charged a demurrage fee per sample to cover the supply of the container, handling, storage and disposal.

If advice is not received in 30 days this job will be cancelled and an invoice issued.

For all additional requests please cc our generic e-mail address
enviro.syd@mgtLabMark.com.au to ensure that your e-mail is acted upon
expeditiously.

Ellen Wandala Gamage
Sample Receipt | NSW

This email has been scanned by the Symantec Email Security.cloud service.
For more information please visit <http://www.symanteccloud.com>

Environmental Notice: Please consider the environment before printing this email.

Sample Receipt Advice

Company name: **Coffey Geotechnics Pty Ltd Chatswood**

Contact name: **Matthew Locke**

Client job number: **ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH**

COC number: **20982**

Turn around time: **5 Day**

Date/Time received: **May 27, 2013 5:35 PM**

Eurofins | mgt reference: **380366**

Sample information

- ☒ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☒ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 2.5 degrees Celsius.
- ☒ All samples have been received as described on the above COC.
- ☒ COC has been completed correctly.
- ☒ Attempt to chill was evident.
- ☒ Appropriately preserved sample containers have been used.
- ☒ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☒ Organic samples had Teflon liners.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Samples received 24/5, Analysis received 27/5 and TAT adjusted accordingly

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: jean.heng@mgtlabmark.com.au

Results will be delivered electronically via e.mail to Matthew Locke - Matthew_Locke@coffey.com.

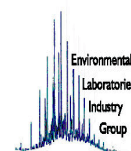
Eurofins | mgt Sample Receipt



Environmental Laboratory
Air Analysis
Water Analysis
Soil Contamination Analysis

NATA Accreditation
Stack Emission Sampling & Analysis
Trade Waste Sampling & Analysis
Groundwater Sampling & Analysis

38 Years of Environmental Analysis & Experience



Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Client Job No.: ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH

Order No.:
Report #: 380366
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: May 27, 2013 5:35 PM
Due: Jun 4, 2013
Priority: 5 Day
Contact Name: Matthew Locke

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	Metals M8	Eurofins mgt Suite 4
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
BH203 0.1-0.2	May 24, 2013		Soil	S13-My21496			X			
BH203 0.5-0.6	May 24, 2013		Soil	S13-My21497	X	X			X	X
BH203 0.9-1	May 24, 2013		Soil	S13-My21498	X				X	X
DUP5	May 24, 2013		Soil	S13-My21499			X			
BH203 1.4-1.5	May 24, 2013		Soil	S13-My21500	X				X	X
BH203 1.8-2.0	May 24, 2013		Soil	S13-My21501			X			
ASS_1.8-2.0	May 24, 2013		Soil	S13-My21502				X		

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: Matthew Locke

Report 380366-S
Client Reference ICC HOTEL DARLING HARBOUR GEOTLCOV24303AH
Received Date May 27, 2013



Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Client Sample ID			BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	ASS 1.8-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My21497	S13-My21498	S13-My21500	S13-My21502
Date Sampled			May 24, 2013	May 24, 2013	May 24, 2013	May 24, 2013
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	93	91	92	-
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions *						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-

Client Sample ID			BH203 0.5-0.6	BH203 0.9-1	BH203 1.4-1.5	ASS_1.8-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S13-My21497	S13-My21498	S13-My21500	S13-My21502
Date Sampled			May 24, 2013	May 24, 2013	May 24, 2013	May 24, 2013
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH	1	mg/kg	< 0.5	< 0.5	< 0.5	-
p-Terphenyl-d14 (surr.)	1	%	84	81	93	-
2-Fluorobiphenyl (surr.)	1	%	101	97	110	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	-
Cadmium	0.4	mg/kg	< 0.4	0.5	< 0.4	-
Chromium	5	mg/kg	9.3	14	< 5	-
Copper	5	mg/kg	56	63	17	-
Lead	5	mg/kg	< 5	< 5	19	-
Mercury	0.05	mg/kg	< 0.05	< 0.05	0.29	-
Nickel	5	mg/kg	120	100	16	-
Zinc	5	mg/kg	41	44	59	-
Acid Sulphate Soils Field pH Test						
pH-F (Field pH test)	0.1	units	-	-	-	7.9
pH-FOX (Field pH Peroxide test)	0.1	units	-	-	-	5.4
Reaction Ratings		comment	-	-	-	Low
% Moisture	0.1	%	11	11	7.3	-
Asbestos			see attached	-	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

Description	Testing Site	Extracted	Holding Time
Eurofins mgt Suite 4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: E004 Petroleum Hydrocarbons (TPH)	Sydney	May 31, 2013	14 Day
BTEX - Method: E029/E016 BTEX	Sydney	May 31, 2013	14 Day
Total Recoverable Hydrocarbons - Draft 2010 NEPM Fractions - Method: LM-LTM-ORG2010	Sydney	May 31, 2013	14 Day
Polycyclic Aromatic Hydrocarbons - Method: E007 Polyaromatic Hydrocarbons (PAH)	Sydney	May 29, 2013	14 Day
Metals M8 - Method: E022 Acid Extractable metals in Soils & E026 Mercury	Sydney	May 28, 2013	28 Day
Acid Sulphate Soils Field pH Test - Method: Acid Sulphate Soils Guideline Series	Sydney	May 29, 2013	7 Day
% Moisture - Method: E005 Moisture Content	Sydney	May 28, 2013	28 Day

Company Name: Coffey Geotechnics Pty Ltd Chatswood
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Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asbestos	HOLD	Acid Sulphate Soils Field pH Test	Metals M8	Eurofins mgt Suite 4
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X		X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory						X				
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
BH203 0.1-0.2	May 24, 2013		Soil	S13-My21496			X			
BH203 0.5-0.6	May 24, 2013		Soil	S13-My21497	X	X			X	X
BH203 0.9-1	May 24, 2013		Soil	S13-My21498	X				X	X
DUP5	May 24, 2013		Soil	S13-My21499			X			
BH203 1.4-1.5	May 24, 2013		Soil	S13-My21500	X				X	X
BH203 1.8-2.0	May 24, 2013		Soil	S13-My21501			X			
ASS_1.8-2.0	May 24, 2013		Soil	S13-My21502				X		

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

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

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

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

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

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

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

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

QC - ACCEPTANCE CRITERIA

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

Results <10 times the LOR : No Limit

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

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

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

QC DATA GENERAL COMMENTS

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