coffey geotechnics

Engineering Log - Piezometer

Borehole No. **NBH30**

Sheet 1 of 1

Project No: **GEOTLCOV24303AC**

Client: ***Infrastructure NSW***

Date started: ***27.4.2012***

Principal:

Date completed: ***27.4.2012***

Project: ***SICEEP***

Logged by: ***ACM***

Borehole Location: ***See Figure 3***

Checked by: ***DS***

drill model & mounting: XP60 Truck | Easting: | slope: -90° | R.L. Surface: 2.7

hole diameter: 100 | Northing: | bearing: N/A | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	structure and additional observations
ADT		N		E						**ASPHALTIC CONCRETE:** (0.1m)	D		PAVEMENT
										FILL: Clayey GRAVEL: Medium to coarse grained, subangular to angular sandstone, pale brown, medium plasticity clay fines	M		FILL
				E		2	1		CL		D		No Odour, PID = 0.3ppm
										FILL: SAND: Fine to medium grained, pale grey, mottled pale brown, cement stablized	<Wp	VS	ALLUVIUM
										Sandy CLAY: Medium to low plasticity, pale brown, mottled orange-brown, fine to medium grained sand			No Odour, Dup 12 + Dup 12a
ADT				SPT 1,0,0 N*=0		1	2		CH	**Sandy CLAY:** Medium to high plasticity, pale brown, mottled red-brown, medium to coarse grained sand			No Odour, PID = 0.9ppm
						0	3		CL	**Silty CLAY:** Medium plasticity, dark grey, mottled black		F	
			▼	SPT 1,3,1 N*=4		-1	4				>Wp		No Odour, PID = 1.7ppm
				SPT 0,0,1 N*=1		-2	5		CL	**CLAY:** Medium plasticity, pale grey		VS	No Odour, PID = 1.8ppm
						-3	6			Borehole terminated at 5m			
						-4	7						
						-5	8						

PIEZOMETER GINTGEOTLCOV24303AC_COMBINED WITH AA GINT.GPJ COFFEY.GDT 24.5.12

Form GEO 5.10 Issue 3 Rev.0

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
DT	diatube
B	blank bit
V	V bit
T	TC bit
TBX	Tubex

*bit shown by suffix e.g. ADT

support: C casing; N nil

penetration: 1 2 3 4 — no resistance ranging to refusal

water: 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
P	pressure meter
Bs	bulk sample
R	refusal
E	environmental sample
PID	PID measurement
WS	water sample
PZ	piezometer
ALT	air lift test

classification symbols and soil description based on unified classification system

moisture

D	dry	W	wet
M	moist	Wp	plastic limit
		W_L	liquid limit

well details: betonite; sand; slotted PVC

consistency/density index

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

coffey environments

Engineering Log - Borehole

Borehole No.	**CBH5**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AD**
Date started:	**25.7.2012**
Date completed:	**25.7.2012**
Logged by:	**PD**
Checked by:	**ML**

Client: **INSW**

Principal:

Project: **SICEEP, Darling Harbour, Sydney NSW**

Borehole Location: **SICEEP Darling Harbour, Sydney NSW**

drill model and mounting: B80 MOBILE DRILL TRACK Easting: slope: -90° R.L. Surface:

hole diameter: 120 mm Northing bearing: datum:

drilling information							material substance						
method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
ADV / ADT						0.0			**BRICK:**				
									SAND: Yellow brown, medium grained.	D	F		No odour or staining.
									ROADBASE:				
				E+-3.1ppm		0.5			**FILL:** Gravelly clayey sand, grey brown, fine grained gravel dark grey rock material.				Dup 4
				E+-4.2ppm		1.0							
				E+-5.8ppm		1.5			White gravel fragments.				
									FILL: Gravelly clay, low plasticity, dark grey gravel, glass/shell fragments.				
				E+-6.2ppm		2.0							
									Borehole CBH5 terminated at 2.2m				
						2.5							
						3.0							
						3.5							
						4.0							
						4.5							
						5.0							

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil

C casing

penetration 1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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 GEOTLCOV24303AD.GPJ COFFEY.GDT 15.8.12

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coffey environments

Engineering Log - Borehole

Borehole No.	**CBH5A**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AD**
Date started:	**27.7.2012**
Date completed:	**27.7.2012**
Logged by:	**PD**
Checked by:	**ML**

Client: **INSW**

Principal:

Project: **SICEEP, Darling Harbour, Sydney NSW**

Borehole Location: **SICEEP Darling Harbour, Sydney NSW**

drill model and mounting: B80 MOBILE DRILL TRACK Easting: slope: -90° R.L. Surface:

hole diameter: 120 mm Northing bearing: datum:

drilling information							material substance							
method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
ADV				E+ 0.7ppm		1			**BRICK.**	D	F		No odour, No staining observed.
									SAND: Medium grained, yellow and brown.				
									ROADBASE:				
									FILL: GRAVELY CLAYEYSAND, fine grained, grey brown. Gravel fine to medium grained, dark grey.				
				E+ 1.9ppm									
				E+ 5.0ppm					Some white gravel fragments.				
						2			**GRAVELLY CLAY:** Low plasticity, dark grey, 1-5 cm rockpieces, some white shell fragments.				
				E+ 3.0ppm									
				E+ 1.3ppm					Becoming brown, minor shell and shell fragments..	M			
						3							
				E+ 2.0ppm					Orange brick fragments, shells and shell fragments.				Dup8
				E+ 1.1ppm					Increasing sand content.	W			ASS1
						4							
				E+ 0.6ppm					Becoming grey.				
				E+ 0.9ppm									
				E+ 1.3ppm		5							
									Ironstone band, red grey.	D	H		
									SAND, Highly weathered. Sandstone, medium to fine grained, red.		F		
				E+ 1.9ppm		6							ASS2
									Borehole CBH5A terminated at 6m				
						7							

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support: M mud, C casing, N nil

penetration 1 2 3 4 — no resistance ranging to refusal

water: 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Engineering Log - Piezometer

Borehole No.	**CBH6/MW6**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AD**
Client:	**INSW**
Date started:	**25.7.2012**
Principal:	
Date completed:	**25.7.2012**
Project:	**SICEEP, Darling Harbour, Sydney NSW**
Logged by:	**PD**
Borehole Location:	**SICEEP Darling Harbour, Sydney NSW**
Checked by:	**ML**

drill model & mounting: B80 MOBILE DRILL TRACK | Easting: | slope: -90° | R.L. Surface:

hole diameter: | Northing: | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material (soil type: plasticity or particle characteristics, colour, secondary and minor components.)	moisture condition	consistency/ density index	structure and additional observations
ADV / ADT				E+-9.0ppm			1			**BRICK:**			
										SAND: Yellow brown, medium grained.	D	S	No odour or staining.
										ROADBASE:		F	
										FILL: Gravelly clayey sand, fine grained, dark grey, fine gravel.			
				E+-9.0ppm						**GRAVELLY SANDY CLAY**: Low-medium plasticity, brown, coarse grey, cream, white gravel, igneous rocks and sandstone.			
										CLAY: Medium plasticity, red-grey.			
				E+-8.6ppm			2						
			►	E+-10.0ppm						Becoming slightly paler in colour.			
										GRAVELLY CLAY: medium plasticity, red. Coarse grey and orange gravel.	M		
				E+-10.2ppm									(ASS1)
							3			**CLAYEY SAND:** Fine grained, dark grey, shell fragments.			
				E+-9.7ppm									(ASS2)
										SANDY CLAY: Medium plasticity, dark grey, shell fragments.	W		
				E+-9.6ppm									(ASS3)
							4			**CLAY:** High plasticity, dark grey.	M		
				E+-9.7ppm									(ASS4)
										CLAYEY SAND: Medium grained, dark grey.		H	
				E+-10.0ppm									(ASS5)
							5			Orange grey mottled.			
				E+-13.9ppm									(ASS6)
				E+-15.8ppm									(ASS7)
										Borehole terminated at 5.6m			
							6						
							7						

PIEZOMETER GEOTLCOV24303AD.GPJ COFFEY.GDT 15.8.12

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method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
DT	diatube
B	blank bit
V	V bit
T	TC bit
TBX	Tubex

*bit shown by suffix e.g. ADT

support: C casing, N nil

penetration: 1 2 3 4 — no resistance ranging to refusal

water: 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
P	pressure meter
Bs	bulk sample
R	refusal
E	environmental sample
PID	PID measurement
WS	water sample
PZ	piezometer
ALT	air lift test

classification symbols and soil description based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Engineering Log - Borehole

Borehole No.	**CBH7**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AD**
Date started:	**25.7.2012**
Date completed:	**25.7.2012**
Logged by:	**PD**
Checked by:	**ML**

Client: **INSW**

Principal:

Project: **SICEEP, Darling Harbour, Sydney NSW**

Borehole Location: **SICEEP Darling Harbour, Sydney NSW**

drill model and mounting: KOMATSU 05 TRACK | Easting: | slope: -90° | R.L. Surface:

hole diameter: 120 mm | Northing | bearing: | datum:

drilling information							material substance						
method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
ADV						0.0			**ASPHALT:**				
									ROADBASE:				
V-BIT									**GRAVELLY CLAYEY SAND**: Yellow brown, fine to medium gravel, dark grey, cream, crushed stones.	D	F		FILL. No odour or staining.
				E+-8.7ppm		0.5							
				E+-9.6ppm		1.0							Dup 3 Dup 3A.
									GRAVELLY SAND: Low plasticity, grey, gravel, medium shale gravel.				
				E+-9.3ppm		1.5							
									Borehole CBH7 terminated at 1.6m				
						2.0							
						2.5							
						3.0							

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description
based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Engineering Log - Borehole

Borehole No.	**CBH7A**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AD**
Date started:	**27.7.2012**
Date completed:	**27.7.2012**
Logged by:	**PD**
Checked by:	**ML**

Client: **INSW**

Principal:

Project: **SICEEP, Darling Harbour, Sydney NSW**

Borehole Location: **SICEEP Darling Harbour, Sydney NSW**

drill model and mounting: KOMATSU 05 TRACK | Easting: | slope: -90° | R.L. Surface:

hole diameter: 120 mm | Northing | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
AD/T/V				E+ 1.3ppm		1			**ASPHALT**:				
									ROADBASE:	D	F		No odour, no staining observed.
				E+ 1.1ppm					**FILL:** Gravelly sandy CLAY, ow plasticity, yellow brown. 1mm - 3 cm Gravel, dark grey and cream crushed stones/ rock pieces				
				E+ 5.4ppm		2			Becoming dark grey.				
				E+ 7.0ppm					**GRAVELLY CLAY**: Low plasticity, yellow brown, gravel (1-5cm), dark grey rock.				
									GRAVELLY SAND CLAY: Low plasticity, dark grey (1-5mm), grey.		S		
				E+ , 8.0ppm		3					F		Dup 7, Dup 7A, ASS4.
				E+ 9.7ppm									
				E+ 9.9ppm		4			Becoming grey brown, medium plasticity, medium shale gravel.				
				E+ 9.2ppm					**CLAY**: Redish brown, gravel (1-5cm), red brown, grey sandstone.				
								CL	**GRAVELLY SANDY CLAY**: Medium plasticity, dark grey, medium grained gravel.	M			
				E+ 9.3ppm		5							ASS1
				E+ 11.4ppm					**CLAY:** Less sandy, white shell and shell fragments.				
				E+ 12.1ppm		6							ASS3
									Borehole CBH7A terminated at 6m				
						7							

BOREHOLE GEOTLCOV24303AD.GPJ COFFEY.GDT 15.8.12

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method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Engineering Log - Borehole

Borehole No.	**CBH8**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AD**
Client:	**INSW**
Date started:	**24.7.2012**
Principal:	
Date completed:	**24.7.2012**
Project:	**SICEEP, Darling Harbour, Sydney NSW**
Logged by:	**PD**
Borehole Location:	**SICEEP Darling Harbour, Sydney NSW**
Checked by:	**ML**

drill model and mounting: KOMATSU 05 TRACK | Easting: | slope: -90° | R.L. Surface:

hole diameter: 120 mm | Northing | bearing: | datum:

drilling information							material substance						
method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
V-BITS						0			**ASPHALT:**				
				E+9.9ppm					**FILL:** Gravelly clayey silt, dark grey, medium dark grey gravel.	D	F		No odour or staining.
				E+10.9ppm		1			**GRAVEL**: Some sand, orange, clay/brick fragments.				
				E+11.2ppm					**GRAVELLY CLAY**: Low plasticity, grey, medium crushed shale gravel, some orange fragments.				ASS1
				E+11.1ppm		2			**GRAVELLY SANDY CLAY**: Low-medium plasticity, grey brown, gravelly gravel, orange-grey.	M			
				E+11.3ppm					Becoming orange in colour.				Organic matter odour, no staining.
				E+14.6ppm		3			**CLAYEY SAND:** Medium-fine grained, dark grey.				Dup1, Dup 1A
				E+12.9ppm					Increasing clay content, some white shell fragments.				ASS2
				E+12.5ppm		4							ASS3
				E+11.8ppm									ASS4
				E+12.8ppm		5			**GRAVELLY SANDY CLAY:** Medium plasticity, yellow brown, medium dark yellow grey gravel.				ASS5
				E+11.8ppm									Dup2, ASS6,
				E+12.7ppm		6							ASS7
									Borehole CBH8 terminated at 6m				
						7							

BOREHOLE GEOTLCOV24303AD.GPJ COFFEY.GDT 15.8.12

Form GEO 5.3 Issue 3 Rev.2

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Engineering Log - Piezometer

Borehole No. **CBH9 / MW9**

Sheet 1 of 1

Office Job No.: **GEOTLCOV24303AD**

Client: **INSW**

Date started: **26.7.2012**

Principal:

Date completed: **26.7.2012**

Project: **SICEEP, Darling Harbour, Sydney NSW**

Logged by: **PD**

Borehole Location: **SICEEP Darling Harbour, Sydney NSW**

Checked by: **ML**

drill model & mounting: B80 MOBILE DRILL TRACK | Easting: | slope: -90° | R.L. Surface:

hole diameter: | Northing: | bearing: | datum:

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	structure and additional observations
Sands				E+ 3.1 ppm			0			**BRICK:**			
										SAND:	D	F	FILL. No odour, no staining observed.
										GRAVELLY CLAYEY SAND: Fine grained, dark grey. Fine, dark grey gravel, minor orange rock shards.			
				E+ 5.2 ppm			1			Some yellow coarse grained sand, plus dark grey clayey sand, fragments of orange bricks.			
				E+ 6.4 ppm						Increasing clay content, orange brick fragments and ceramic pieces.			
				E+ 6.8 ppm			2			**CLAY:<<B> Medium plasticity, yellow brown.**			Dup 5A
				E+ 7.0 ppm						Becoming grey-red.			
			▶	E+ 6.7 ppm			3			**SANDY CLAY**: Medium plasticity, dark grey.	M		ASS1
				E+ 5.8 ppm						Minor white shell fragments.			ASS2
				E+ 3.0 ppm			4			White shells and shell fragments (1mm-7cm).	W		ASS3
				E+ 5.0 ppm						**CLAY:** Medium plasticity, red. slight yellow grey mottled.	D		ASS4
				E+ 4.2 ppm			5						ASS5
				E+ 4.5 ppm						Grey, red mottled.			ASS6
							6			Borehole terminated at 5.8m			
							7						

PIEZOMETER GEOTLCOV24303AD.GPJ COFFEY.GDT 15.8.12

Form GEO 5.10 Issue 3 Rev.0

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
DT	diatube
B	blank bit
V	V bit
T	TC bit
TBX	Tubex

*bit shown by suffix e.g. ADT

support

C casing N nil

penetration

1 2 3 4 no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
P	pressure meter
Bs	bulk sample
R	refusal
E	environmental sample
PID	PID measurement
WS	water sample
PZ	piezometer
ALT	air lift test

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Engineering Log - Borehole

Borehole No.	**CBH10**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AD**
Date started:	**26.7.2012**
Date completed:	**26.7.2012**
Logged by:	**JG**
Checked by:	**ML**

Client: **INSW**

Principal:

Project: **SICEEP, Darling Harbour, Sydney NSW**

Borehole Location: **SICEEP Darling Harbour, Sydney NSW**

drill model and mounting: B80 MOBILE DRILL TRACK Easting: slope: -90° R.L. Surface:

hole diameter: 120 mm Northing bearing: datum:

drilling information							material substance						
method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
									BRICK:	M			Brick pavement.
						0.5			**GRAVELLY SAND:** Medium to coarse grained, brown pale grey, fine to medium grained gravel (cemented material).				
				E+2.4 ppm					**GRAVELLY SANDY CLAY:** Low plasticity, dark grey / dark brow, with orange brown mottling, trace of cobbles.				
						1.0							
				E+2.3 ppm					**CLAYEY SAND:** Medium to coarse grained, grey pale grey with orange brown mottling, trace of fine to coarse gravel.				
						1.5							
				E+7.4 ppm					**SANDY CLAY:** Low plasticity, dark grey, medium grained sand, trace of fine to medium grained gravel.				
						2.0							
				E+7.3 ppm					**CLAY:**Low plasticity, motted grey pale, orange brown, dark grey, trace of fine grained sand.				Dup 5, Dup 5A
						2.5							
				E+4.8 ppm					**SANDY CLAY:** Fine to medium grained, pale yellow / pale brow.				
						3.0							
				E+6.3 ppm					**CLAY:** High plasticity, mottled grey / pale grey, orange brown, trace of fine gravels.				
				E+ 6.1 ppm		3.5		CH	**CLAY:**High plasticity, dark grey.	Wp			ASS1
				E+ 5.3 ppm		4.0			**SANDY CLAY:** Fine to medium grained, dark grey, trace of shell fragments.				ASS2
									Borehole CBH10 terminated at 4m				
						4.5							
						5.0							

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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 GEOTLCOV24303AD.GPJ COFFEY.GDT 15.8.12

Form GEO 5.3 Issue 3 Rev.2

coffey environments

Engineering Log - Borehole

Borehole No.	**CBH11**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AD**
Date started:	**25.7.2012**
Date completed:	**25.7.2012**
Logged by:	**PD**
Checked by:	**ML**

Client: **INSW**

Principal:

Project: **SICEEP, Darling Harbour, Sydney NSW**

Borehole Location: **SICEEP Darling Harbour, Sydney NSW**

drill model and mounting: B80 MOBILE DRILL TRACK Easting: slope: -90° R.L. Surface:

hole diameter: 120 mm Northing bearing: datum:

drilling information							material substance						
method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
ADV									**BRICK:**				
									SAND: medium grained, yellow brown.				
									ROADBASE: **FILL:** Gravelly sandy clay, low plasticity, dark grey, gravel, some orange clay brick fragments.	D	F		FILL. No odour or staining.
ADT				E+-4.2ppm					**CONCRETE:**				
						1			**FILL:** Gravelly sand, fine grained, dark grey gravel with grey rock pieces.				
				E+7.1ppm					**GRAVELLY SAND:** Medium grained, yellow-brown gravel, some red-brown fragments.		S		
				E+-9.2ppm					**GRAVELLY CLAY**: Low plasticity gravel, some grey-brown rock pieces.		F		
				E+-10.9ppm		2							
									Increasing clay content, medium plasticity, gravel with some stone pieces, yellow-brown.				
				E+11.7ppm									
				E+11.8ppm		3			**CLAY:** Medium high plasticity, dark grey with organic sediment.	M			
				E+12.1ppm									ASS1
				E+11.4ppm		4			Increase sand content, white shell fragments.	W			Dup6, Ass2
									Borehole CBH11 terminated at 4m				
						5							
						6							

BOREHOLE GEOTLCOV24303AD.GPJ COFFEY.GDT 15.8.12

Form GEO 5.3 Issue 3 Rev.2

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Environmental Log - Borehole

Borehole No.	**BH118**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Client:	***Infrastructure NSW***
Date started:	**12.12.2012**
Principal:	
Date completed:	**12.12.2012**
Project:	***SICEEP***
Logged by:	**PD**
Borehole Location:	***Darling Harbour, NSW***
Checked by:	**ML**

drill model and mounting: Komatsu 05 Track | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
SS				E+2.0ppm					**ASPHALT**				
									FILL: Gravelly SAND: Fine grained, dark grey brown. Gravel is fine crushed concrete and orange brick fragments	D	F		No odour or staining
				E, A+1.5ppm									
						1			Some crushed concrete and metal pieces				
SPT				E, QC21, QC21A+1.6ppm									
				E+1.6ppm					**FILL:** Clayey SAND: Fine grained, brown	D	F		No odour or staining
						2							
				E, A+1.8ppm									
				E+2.0ppm									
			▼			3			**ALLUVIUM:** SAND: Fine to medium grained, dark grey, organic	M	F		Organic matter odour, no staining
				E+1.5ppm						W			
				E+1.6ppm									
						4			Large white shell pieces				
				E+1.8ppm									
				E+5.7ppm					Minor white shell fragments and sandstone pieces				
									Borehole BH118 terminated at 4.5m				
						5							
						6							

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

▼ 10/1/98 water level on date shown
► water inflow
◄ water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description
based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Environmental Log - Borehole

Borehole No.	**BH119**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Client:	***Infrastructure NSW***
Date started:	**12.12.2012**
Principal:	
Date completed:	**12.12.2012**
Project:	***SICEEP***
Logged by:	**PD**
Borehole Location:	***Darling Harbour, NSW***
Checked by:	**ML**

drill model and mounting: Komatsu 05 Track | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
HA									**CONCRETE**				
				E, A+1.1ppm					**SAND:** Medium grained, yellow to brown.	D	S		No odour or staining.
									FILL: Gravelly Clayey SAND: Fine grained, dark grey. Gravel fine to meidum, grey rock pieces.	D	F		No odour or staining.
				E					Asbestos fibrous sheet (approx 6mm)				
				E, QC20+1.3ppm		0.5			**FILL:** Gravelly CLAY: Low plasticity, orange to grey. Gravel fine, orange ironstone fragments.	D	F		No odour or staining.
									Gravelly Sandy CLAY: Low plasticity, dark grey. Gravel fine to medium, dark grey rock pieces.	D	H		No odour or staining.
				E+1.1ppm					**Clayey SAND:** Highly weathered sandstone, fine grained, orange to brown.	D	H		No odour or staining.
SPT						1.0							
				E, A+1.1ppm		1.5			**Sandy CLAY:** Low plasticity, yellow to brown.	D	H		No odour or staining.
						2.0							
				E+1.2ppm									
				E+1.3ppm					**Silty CLAY:** Organic, medium to high plasticity, dark grey. 1mm darker grey seams of potentiently organic matter.	D	H		No odour or staining.
						2.5							
				E+1.4ppm		3.0							
									Borehole BH119 terminated at 3m				
						3.5							
						4.0							

BOREHOLE GEOTLCOV24303AF.GPJ COFFEY.GDT 16.1.13

Form GEO 5.3 Issue 3 Rev.2

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil

C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Environmental Log - Piezometer

Borehole No. **BH120/MW120**

Sheet 1 of 1

Office Job No.: **GEOTLCOV24303AF**

Client: ***Infrastructure NSW***

Date started: ***18.12.2012***

Principal:

Date completed: ***18.12.2012***

Project: ***SICEEP***

Logged by: ***PD***

Borehole Location: ***Darling Harbour, NSW***

Checked by: ***ML***

drill model & mounting: Komatsu 05 Track | Easting: 333679.383 | slope: -90° | R.L. Surface: 2.710

hole diameter: 115 | Northing: 6249893.26 | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	structure and additional observations
SS				E, A+2.3ppm						**ASPHALT**			
										FILL: Silty GRAVEL: Fine to medium grained, grey	D	F	No odour or staining
				E+0.9ppm		2				**FILL:** Gravelly SAND: Fine to medium grained, cream, crushed sandstone	D	F	No odour or staining
				E+5.6ppm			1			Sandstone becoming more brown in colour, orange brick fragments		H	
				E, A+10ppm		1				Material turns grey and becomes slightly clayey			
				E+6.6ppm			2						
			▼	E+7.3ppm		0				**ALLUVIUM:** Clayey SAND: Fine grained, yellow brown	W	F	No odour or staining
				E, QC34+6.8ppm			3			**Clayey SAND:** Alluvial, fine grained, dark grey	W	F	No odour or staining
				E+5.5ppm		-1							organic matter odour, no staining
				E+5.9ppm			4			Abundant white shells			
										Borehole terminated at 4m			
						-2	5						
						-3	6						

PIEZOMETER GEOTLCOV24303AF.GPJ COFFEY.GDT 16.1.13

Form GEO 5.10 Issue 3 Rev.0

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
DT	diatube
B	blank bit
V	V bit
T	TC bit
TBX	Tubex

*bit shown by suffix e.g. ADT

support

C casing N nil

penetration

1 2 3 4 no resistance ranging to refusal

water

▼ 10/1/98 water level on date shown

► water inflow

◄ water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
P	pressure meter
Bs	bulk sample
R	refusal
E	environmental sample
PID	PID measurement
WS	water sample
PZ	piezometer
ALT	air lift test

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Environmental Log - Borehole

Borehole No.	**BH121**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Client:	***Infrastructure NSW***
Date started:	***18.12.2012***
Principal:	
Date completed:	***18.12.2012***
Project:	***SICEEP***
Logged by:	***PD***
Borehole Location:	***Darling Harbour, NSW***
Checked by:	***ML***

drill model and mounting: Komatsu 05 Track | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information							material substance						
method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
SST				E+7.3ppm		0.5			**ASPHALT** **FILL:** Silty GRAVEL: Medium grained, brown. Gravel is fine to medium grey igneous rock pieces	D	F		No odour or staining
				E, A+9.3ppm					**FILL:** Gravelly Clayey SAND: Medium grained, dark grey. Gravel is fine to medium dark grey and orange brown rock fragments with some crushed orange brick fragments Concrete Slab Borehole BH121 terminated at 0.6m				
						1.0							
						1.5							
						2.0							

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description
based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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 GEOTLCOV24303AF.GPJ COFFEY.GDT 16.1.13

Form GEO 5.3 Issue 3 Rev.2

coffey environments

Environmental Log - Borehole

Borehole No.	**BH121A**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Client:	***Infrastructure NSW***
Date started:	**18.12.2012**
Principal:	
Date completed:	**18.12.2012**
Project:	***SICEEP***
Logged by:	**PD**
Borehole Location:	***Darling Harbour, NSW***
Checked by:	**ML**

drill model and mounting: Komatsu 05 Track | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
SST				E+3.1ppm		0.0			**ASPHALT**				
									FILL: Gravelly Clayey SAND: Fine to medium grained, dark grey. Gravel is fine to medium grained, Dark grey rock pieces	D	F		No odour or staining
				E+9.0ppm		0.5			**FILL:** Gravelly SAND: Fine grained, brown. Gravel is fine to medium grey brown rock pieces with some crushed red brick fragments	D	F		No odour or staining
				E, A+12ppm		1.0			**FILL:** Gravelly Sandy CLAY: Low plasticity, dark grey. Gravel is fine grey rock pieces and crushed concrete and orange brick fragments with some rusted metal pieces	D	F		No odour or staining
				E, QC35, QC35A+11.3ppm		1.5			White ceramic piece and more metal pieces and red/orange brick pieces				
				E+8.0ppm		2.0			More white ceramic/porcelain pieces				
			▼	E, A+8.0ppm		2.5			**ALLUVIUM:** Clayey SAND: Fine grained, yellow brown	M	F		No odour or staining
				E+4.6ppm		3.0			**Sandy CLAY:** Medium plasticity, dark grey	M	F		No odour or staining
				E+5.2ppm		3.5			Some white shells	W			
									Borehole BH121A terminated at 3.5m				
						4.0							

BOREHOLE GEOTLCOV24303AF.GPJ COFFEY.GDT 16.1.13

Form GEO 5.3 Issue 3 Rev.2

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

▼ 10/1/98 water level on date shown
► water inflow
◄ water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description
based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Environmental Log - Borehole

Borehole No.	**BH122**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Client:	**Infrastructure NSW**
Date started:	**13.12.2012**
Principal:	
Date completed:	**13.12.2012**
Project:	**SICEEP**
Logged by:	**PD**
Borehole Location:	**Darling Harbour, NSW**
Checked by:	**ML**

drill model and mounting: Komatsu 05 Track | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information							material substance						
method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
HA				E, EC22+12.9ppm		0.0			**MULCH, SAWDUST AND TOPSOIL**	D	L		No odour or staining
									FILL: Gravelly SAND: Fine grained, brown. Gravel is very fine brown and dark grey rock pieces	D	S		No odour or staining
SS				E, A+19.9ppm		0.5			Crushed grey sandstone noted		H		
				E+19.8ppm		1.0			Ssandstone and dark grey igneous rocks and concrete noted				
SPT						1.5							
SS				E+19.9ppm					Occassional orange crushed brick fragments				
									Borehole BH122 terminated at 1.7m				
						2.0							
						2.5							
						3.0							
						3.5							
						4.0							

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description
based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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 GEOTLCOV24303AF.GPJ COFFEY.GDT 16.1.13

Form GEO 5.3 Issue 3 Rev.2

coffey environments

Environmental Log - Borehole

Borehole No.	**BH122A**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Date started:	**13.12.2012**
Date completed:	**13.12.2012**
Logged by:	**PD**
Checked by:	**ML**

Client: ***Infrastructure NSW***

Principal:

Project: ***SICEEP***

Borehole Location: ***Darling Harbour, NSW***

drill model and mounting: Komatsu 05 Track | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information							material substance						
method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
HA				E, A+2.3ppm					**MULCH, SAWDUST AND TOPSOIL**	D	L		No odour or staining
SS/T									**FILL:** Gravelly SAND: Fine grained, grey brown. Gravel is very fine brown and dark grey rock fragments	D	H		No odour or staining
				E+1.5ppm					Sandstone and ballast and orange brick pieces and fragments				
				E+1.6ppm		1							
				E, A+1.6ppm									
SPT				E, QC25, QC25A+1.4ppm		2			Some ironstone pieces				
									ALLUVIUM: Sandy CLAY: Low plasticity, orange grey	D	F		No odour or staining
				E+2.0ppm									
				E, A+1.5ppm		3							
				E+1.9ppm					**SAND:** Alluvial, fine to medium grained, dark grey	D	H		No odour or staining
				E+2.5ppm		4							Slight organic matter odour, no staining
									Borehole BH122A terminated at 4m				
						5							
						6							

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description
based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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 GEOTLCOV24303AF.GPJ COFFEY.GDT 16.1.13

Form GEO 5.3 Issue 3 Rev.2

coffey environments

Environmental Log - Borehole

Borehole No.	**BH123**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Client:	***Infrastructure NSW***
Date started:	**13.12.2012**
Principal:	
Date completed:	**13.12.2012**
Project:	***SICEEP***
Logged by:	**PD**
Borehole Location:	***Darling Harbour, NSW***
Checked by:	**ML**

drill model and mounting: Komatsu 05 Track | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
HA									**MULCH, WOODCHIP AND TOPSOIL**	D	L		No odour or staining
SS/T				E, A+19.2ppm					**FILL:** Gravelly Clayey SAND: Fine grained, brown. Gravel is very fine brown and dark grey rock fragments	D	H		No odour or staining
						0.5			Some white crushed concrete				
				E+20.1ppm									
						1.0			Some very fine crushed orange brick fragments				
				E+29.0ppm									
						1.5							
				E, A+41.7ppm									
						2.0			Borehole BH123 terminated at 1.7m				

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support: M mud, N nil, C casing

penetration: 1 2 3 4 — no resistance ranging to refusal

water: 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Environmental Log - Borehole

Borehole No.	**BH123A**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Client:	**Infrastructure NSW**
Date started:	**13.12.2012**
Principal:	
Date completed:	**13.12.2012**
Project:	**SICEEP**
Logged by:	**PD**
Borehole Location:	**Darling Harbour, NSW**
Checked by:	**ML**

drill model and mounting: Komatsu 05 Track | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
HA				E+1.3ppm					**MULCH, WOODCHIPS AND TOPSOIL**	D	L		No odour or staining
SST				E, QC23, QC23A+1.4ppm		1			**FILL:** Gravelly Clayey SAND: Fine grained, brown. Gravel is very fine brown and dark grey rock fragments	D	H		No odour or staining
				E, A+1.4ppm									
				E, A+1.5ppm		2							
SPT				E+1.9ppm					**ALLUVIUM:** CLAY: Low plasticity, grey mottled orange red, some fine black seams/layering within the clay	D	F		No odour or staining
				E+1.7ppm		3							
SS				E, A+1.5ppm							H		
				E, QC24+2.1ppm					**Clayey SAND:** Fine grained, dark brown	D	F		No odour or staining
				E+1.9ppm		4			Sand becomes medium grained, grey brown	M			No odour or staining
				E+2.1ppm					Remnants of vegetation		H		Slight orangic matter odour, no staining
						5			Borehole BH123A terminated at 4.5m				
						6							

BOREHOLE GEOTLCOV24303AF.GPJ COFFEY.GDT 16.1.13

Form GEO 5.3 Issue 3 Rev.2

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Environmental Log - Piezometer

Borehole No. **BH124/MW124**

Sheet 1 of 1

Office Job No.: **GEOTLCOV24303AF**

Client: ***Infrastructure NSW***

Date started: ***14.12.2012***

Principal:

Date completed: ***14.12.2012***

Project: ***SICEEP***

Logged by: ***PD***

Borehole Location: ***Darling Harbour, NSW***

Checked by: ***ML***

drill model & mounting: Komatsu 05 Track | Easting: 333566.149 | slope: -90° | R.L. Surface: 4.465

hole diameter: 115 | Northing: 6249900.057 | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	structure and additional observations
HA				E, A+31.7ppm		4	1			**MULCH, SAWDUST AND TOPSOIL**	D	H	No odour or staining
SST				E+86.1ppm						**FILL:** Gravelly Clayey SAND: Fine grained, brown. Gravel is fine crushed sandstone and orange brick fragments and some rootlet pieces			
				E+42.3ppm									
SST	SPT			E+43.4ppm		3				Fine to medium sized orange brick pieces and some glass shards			
				E+41.3ppm			2			**FILL:** CLAY: Low plasticity, grey, orange mottled yellow	D	H	No odour or staining
SPT				E+40.4ppm		2							
				E, A+117ppm			3			Some crushed grey sandstone			Slight HC odour and sligh black staining in the crushed sandstone
				E+45.5ppm		1				Some red ironstone, darker grey seams/layers of clay within the clay			Moderate HC odour, no staining
				E+107ppm			4			**SAND:** Fine grained, dark grey. Reworked natural?	D	H	Moderate HC odour and slight black staining Very slight HC odour. no staining
				E+25.8ppm		0				Some wood/vegetation within sand. Alluvial matter?			Very slight HC odour, no staining
				E, A+45.7ppm			5			**ALLUVIUM:** Sandy CLAY: Low plasticity, dark brown slightly mottled orange grey	D	H	Moderate HC odour
										Back into grey sand	D	H	Very slight HC odour, no staining
				E, QC27, QC27A+4.6ppm		-1				**SANDSTONE:** Highly weathered, medium grained, pale grey	D	VH	No odour or staining
				E, A+4.9ppm			6			Borehole terminated at 5.6m			
						-2	7						
						-3	8						

method

AS	auger screwing*
AD	auger drilling*
RR	roller/tricone
W	washbore
CT	cable tool
DT	diatube
B	blank bit
V	V bit
T	TC bit
TBX	Tubex

*bit shown by suffix e.g. ADT

support: C casing; N nil

penetration: 1 2 3 4 — no resistance ranging to refusal

water: 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
P	pressure meter
Bs	bulk sample
R	refusal
E	environmental sample
PID	PID measurement
WS	water sample
PZ	piezometer
ALT	air lift test

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

PIEZOMETER GEOTLCOV24303AF.GPJ COFFEY.GDT 16.1.13

Form GEO 5.10 Issue 3 Rev.0

coffey environments

Environmental Log - Borehole

Borehole No.	**BH125**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Date started:	**11.12.2012**
Date completed:	**11.12.2012**
Logged by:	**PD**
Checked by:	**ML**

Client: ***Infrastructure NSW***

Principal:

Project: ***SICEEP***

Borehole Location: ***Darling Harbour, NSW***

drill model and mounting: Komatsu 05 Track | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information							material substance						
method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
DT									**CONCRETE**				
SS				E+6.2ppm					**FILL:** Gravelly Sandy CLAY: Low plasticity, dark brown. Gravel is fine unidentified brown and grey rock pieces and some pieces of concrete and orange brick fragments	D	H		No odour or staining
				E+25.6ppm		0.5							
				E+25.1ppm		1.0			No concrete brick fragments				
									Very hard surface, potentially concrete Borehole BH125 terminated at 1.1m				
						1.5							
						2.0							

BOREHOLE GEOTLCOV24303AF.GPJ COFFEY.GDT 16.1.13

Form GEO 5.3 Issue 3 Rev.2

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Environmental Log - Borehole

Borehole No.	**BH125A**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Date started:	**17.12.2012**
Date completed:	**17.12.2012**
Logged by:	**PD**
Checked by:	**ML**

Client: ***Infrastructure NSW***

Principal:

Project: ***SICEEP***

Borehole Location: ***Darling Harbour, NSW***

drill model and mounting: Mobile B80 Truck | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
SS				E+3.2ppm					**ASPHALT**				
									FILL: Gravelly SILT: Dark grey. Gravel is fine grey rock fragments	D	H		No odour or staining
				E, A+1.2ppm					**FILL:** Gravelly SAND: Medium grained, yellow brown. Gravel is fine to medium crushed sandstone	D	H		No odour or staining
						1			**ASPHALT**				
									Gravelly SAND: Fine grained, dark grey. Gravel is very fine to fine dark grey and brown rock fragments and asphalt pieces	D	H		No odour or staining
				E+1.6ppm					**CONCRETE**	D	H		No odour or staining
				E+1.9ppm					**FILL:** Gravelly Sandy CLAY: Low plasticity, yellow brown. Gravel is medium crushed red bricks and yellow brown sandstone and grey rock pieces				
SPT									**IRONSTONE:** Fine grained, red	D	F		No odour or staining
						2			**CLAY:** Low to medium plasticity, grey mottled red orange				
				E, A+2ppm					**FILL:** SAND: Fine grained, yellow brown	M	F		No odour or staining
			▼	E+2.0ppm									
						3			Becoming more grey	W	F		No odour or staining
				E, QC31, QC31A+2.1ppm									
				E+2.3ppm					**ALLUVIUM:** Sandy CLAY: Alluvial, medium plasticity, dark grey, white shell fragments	W	F		No odour or staining
				E+2.3ppm		4			Decomposed vegetation/rootlets	W	F		Strong organic matter odour, no staining
									Borehole BH125A terminated at 4m				
						5							
						6							

BOREHOLE GEOTLCOV24303AF.GPJ COFFEY.GDT 16.1.13

Form GEO 5.3 Issue 3 Rev.2

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

▼ 10/1/98 water level on date shown
► water inflow
◄ water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Environmental Log - Borehole

Borehole No.	**BH126**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Date started:	**12.12.2012**
Date completed:	**12.12.2012**
Logged by:	**PD**
Checked by:	**ML**

Client: ***Infrastructure NSW***

Principal:

Project: ***SICEEP***

Borehole Location: ***Darling Harbour, NSW***

drill model and mounting: Komatsu 05 Track | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information							material substance						
method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
DT									**CONCRETE**				
SS/T				E, QC19, QC19A+11.5ppm		0.5			**FILL:** Sandy GRAVEL: Fine grained, dark grey to black. Gravel is dark grey and pale grey sandstone and igneous rock pieces. Potential ash noted	D	H		No odour or staining
				E, A+10ppm									
				E+20.5ppm		1.0			**FILL:** Sandy CLAY: Low plasticity, yellow brown	D	H		No odour or staining
				E+14.1ppm		1.5			Material becomes more brown to dark grey, piece of orange brick				
				E, A+17.2ppm		2.0			**FILL:** CLAY: Medium to high plasticity, grey mottled yellow	D	H		No odour or staining
SPT				E+19.3ppm		2.5			**ALLUVIUM:** Sandy CLAY: Organic, medium plasticity, dark grey	D	H		Slight organic matter odour, no staining
				E+12.1ppm		3.0			Very sandy				
									Borehole BH126 terminated at 3m				
						3.5							
						4.0							

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description
based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Environmental Log - Borehole

Borehole No.	**BH127**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Client:	**Infrastructure NSW**
Date started:	**10.12.2012**
Principal:	
Date completed:	**10.12.2012**
Project:	**SICEEP**
Logged by:	**PD**
Borehole Location:	**Darling Harbour, NSW**
Checked by:	**ML**

drill model and mounting: Komatsu 05 Track | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
DT									**CONCRETE**				
SS				E+6.5ppm					**SAND:** Fine grained, yellow brown	D	S		No odour or staining
				E, A+8.2ppm					**FILL:** Gravelly Clayey SAND: Fine grained, dark grey. Gravel is fine, dark grey ballast	D	H		No odour or staining
				E+9.3ppm					**FILL:** Gravelly SAND: Fine grained, dark grey. Gravel is fine dark grey and orange brick fragments	D	H		No odour or staining
				E+3.5ppm		1							
				E, A+4.6ppm					Old metal bolt and orange brick pieces within fill				
				E+5.4ppm		2			**Sandy CLAY:** Low to medium plasticity, grey	D	F		No odour or staining
				E+6.0ppm					Clay becomes more pale grey and slightly mottled orange red				
				E+6.3ppm						D	F		No odour or staining
				E+4.4ppm					**CLAY:** Low to medium plasticity, grey slightly mottled red	D	F		Slight organic matter odour, no staining
			▼			3			**SAND:** Fine grained, yellow brown	M	F		
				E, QC17, QC17A+5.7ppm					**Sandy CLAY:** Low to medium plasticity, dark grey, minor white shell fragments and orange brown sandstone fragments	W	F		Organic matter odour, no staining
				E+4ppm		4							
									Borehole BH127 terminated at 4m				
						5							
						6							

BOREHOLE GEOTLCOV24303AF.GPJ COFFEY.GDT 16.1.13

Form GEO 5.3 Issue 3 Rev.2

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration

1 2 3 4 no resistance ranging to refusal

water

▼ 10/1/98 water level on date shown
► water inflow
◄ water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Environmental Log - Borehole

Borehole No.	**BH128**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Client:	***Infrastructure NSW***
Date started:	***17.12.2012***
Principal:	
Date completed:	***17.12.2012***
Project:	***SICEEP***
Logged by:	***PD***
Borehole Location:	***Darling Harbour, NSW***
Checked by:	***ML***

drill model and mounting: Mobile B80 Truck | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
DT									**CONCRETE**				
SS				E, A+2.9ppm		0.5			**FILL:** Gravelly Clayey SAND: Fine grained, brown. Gravel is fine to coarse grained, grey and brown and cream rock pieces with orange brick fragments and crushed concrete	D	H		No odour or staining
				E+3.4ppm		1.0							
				E+2.9ppm		1.5							
				E, A+2.8ppm		2.0			Material becoming more clayey				No odour, some black staining
SPT				E+2.8ppm									
				E+2.6ppm					**FILL:** SAND: Fine grained, dark grey	M	F		No odour or staining
			▼	E, QC30+2.6ppm		2.5			**IRONSTONE:** Highly weathered, medium grained, red	D	F		No odour or staining
									ALLUVIUM: Sandy Silty CLAY: Medium plasticity, dark grey	M	F		Slight organic odour, no staining
				E+2.5ppm		3.0							
				E+2.4ppm		3.5			Some white shells present				
									Borehole BH128 terminated at 3.5m				
						4.0							

BOREHOLE GEOTLCOV24303AF.GPJ COFFEY.GDT 16.1.13

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method

AS	auger screwing*
AD	auger drilling*
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. ADT

support

M mud N nil
C casing

penetration 1 2 3 4 — no resistance ranging to refusal

water

▼ 10/1/98 water level on date shown

► water inflow

◄ water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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

coffey environments

Environmental Log - Borehole

Borehole No.	**BH129**
Sheet	1 of 1
Office Job No.:	**GEOTLCOV24303AF**
Client:	***Infrastructure NSW***
Date started:	***10.12.2012***
Principal:	
Date completed:	***10.12.2012***
Project:	***SICEEP***
Logged by:	***PD***
Borehole Location:	***Darling Harbour, NSW***
Checked by:	***ML***

drill model and mounting: Komatsu 05 Track | Easting: | slope: -90° | R.L. Surface:

hole diameter: 100 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetrometer kPa 100 200 300 400	structure and additional observations
DT									**CONCRETE:** Grey, pebbly on sides				
HA				E, A+4.1ppm					**Sandy GRAVEL:** Fine grained, dark grey to black	D	F		No odour or staining
SS				E +8.2ppm					**FILL:** Sandy Clayey GRAVEL: Fine to medium grained, dark grey	D	H		No odour or staining
DT				E+23.7ppm					**CONCRETE SLAB**				
SPT				E, A+20.6ppm		1			**FILL:** Sandy Clayey GRAVEL: Gravel orange crushed sandstone	D	H		No odour or staining
				E+31.6ppm					Crushed glass and orange brick pieces and fragments				No odour or staining
				E, QC18+86.7ppm		2			Brick fragments present, no glass noted. Some black ash type material and cream crushed sandstone fragments		F		No odour or staining
				E, A+33.4ppm									
				E+51.7ppm		3			Material becoming more sandy clay. Very less gravel				No odour or staining
				E+53.9ppm					Piece of buried wood reminants and glass shards and white shell fragments with crushed cream sandstone				No odour or staining
				E+53.3ppm		4			Same fill material, white shell fragments (possibly reworked natural material)				No odour or staining
				E+54.1ppm					Very minor white shell fragments, some wood/ vegetation piece				
				45.2ppm		5			**ALLUVIUM:** CLAY: Medium plasticity, dark grey, very minor dark grey damp wood piece and white shell fragments. Clay turns orange mottled	M			No odour or staining
				E+35.3ppm						D			No odour or staining
						6			Borehole BH129 terminated at 5.5m				

method

AS	auger screwing*
AD	auger drilling*
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. ADT

support: M mud, C casing, N nil

penetration: 1 2 3 4 — no resistance ranging to refusal

water: 10/1/98 water level on date shown; water inflow; water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

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 GEOTLCOV24303AF.GPJ COFFEY.GDT 16.1.13

Form GEO 5.3 Issue 3 Rev.2

Appendix D
Laboratory Results: Summary Tables

Site Specific Remedial Action Plan
Haymarket, Sydney NSW

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5	BH13 4.0	BH14_2.5
LocCode	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5	BH13 4.0	BH14_2.5
Sample_Depth_Range																			2.5
Sampled_Date-Time	7/06/2011	7/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	1/06/2011	1/06/2011	1/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	9/06/2011	9/06/2011	9/06/2011	9/06/2011	17/06/2011
Matrix_Description																			
SDG	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100639-1	SE100639-1	SE100639-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100711-1

Chem_Group	ChemName	Units	LOR	HIL																	
Inorganics	Moisture	%	0.5		10	16	8.9	13	17	16	-	18	9.4	9.9	5.5	11	20	18	-	15	-	28	25
Metals	Arsenic	mg/kg	2 / 3	500	3	9	4	-	8	4	-	5	<3	5	<3	6	5	8	-	10	-	180	7
	Cadmium	mg/kg	0.3 / 0.4	150	0.3	<0.3	<0.3	-	<0.3	<0.3	-	0.3	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	-	0.8	-	<0.3	0.5
	Chromium	mg/kg	0.3 / 5	500	9	16	11	-	13	13	-	16	20	13	13	14	11	16	-	9.3	-	17	18
	Copper	mg/kg	0.5	30000	13	21	44	-	4.9	35	-	34	18	13	39	36	3.8	5.1	-	70	-	11	120
	Lead	mg/kg	1 / 5	1200	15	25	260	-	19	150	-	74	21	34	31	240	24	13	-	140	-	49	170
	Mercury	mg/kg	0.05	120	<0.05	0.05	0.13	-	<0.05	0.22	-	0.12	0.09	0.1	0.11	0.19	<0.05	<0.05	-	0.45	-	0.21	1
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	7.7	3.6	7.7	-	1.2	4.7	-	4.6	5.1	9.3	13	7.8	1	1.7	-	6.2	-	11	14
	Zinc	mg/kg	0.5 / 5	60000	30	25	72	-	18	110	-	77	160	83	64	92	380	520	-	730	-	18	340
BTEX	Benzene	mg/kg	0.1 / 0.5	0.5	<0.1	<0.1	<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 / 0.5	55	<0.1	<0.1	<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	160	<0.1	<0.1	<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 / 1	-	<1	<1	<2	<1	<1	<1	-	<0.2	<1	-	<1	<0.2	<1	-	-	<1	-	<0.2	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	<0.1	<0.5	-	<0.5	<0.1	<0.5	-	-	<0.5	-	<0.1	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	40	<0.3	<0.3	<3	<0.3	<0.3	<0.3	-	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	-	<0.3	-	<0.3	<0.3
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	5800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	8100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	10 / 20	45	-	-	-	-	-	-	-	<20	<20	-	-	-	-	-	-	-	-	-	<20
	C10 - C14	mg/kg	20 / 50	110	-	-	-	-	-	-	-	28	23	-	-	-	-	-	-	-	-	-	<20
	C15 - C28	mg/kg	50 / 100	5800	-	-	-	-	-	-	-	1200	430	-	-	-	-	-	-	-	-	-	<50
	C29 - C36	mg/kg	50 / 100	8100	-	-	-	-	-	-	-	620	260	-	-	-	-	-	-	-	-	-	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	-	-	-	-	-	-	-	1848	713	-	-	-	-	-	-	-	-	-	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	7.3	-	<0.1	1	-	2.3	3.2	<0.1	0.6	0.4	<0.1	<0.1	-	<0.1	-	<0.1	0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	0.6	-	<0.1	<0.1	-	12	0.7	0.1	0.7	0.4	<0.1	<0.1	-	0.2	-	<0.1	<0.1
	Anthracene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	17	-	<0.1	2.3	-	23	6	0.2	1.3	0.5	<0.1	<0.1	-	0.2	-	<0.1	0.2
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	30	-	<0.1	3.2	-	55	8.5	0.8	3.9	2.3	<0.1	<0.1	-	0.9	-	<0.1	0.3
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.05	<0.05	20	-	<0.05	2.1	-	47	7	0.63	3.2	1.9	<0.05	<0.05	-	0.88	-	<0.05	0.29
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<0.1	<0.1	24	-	<0.1	2.8	-	64	3	0.8	3.7		<0.1	<0.1	-	1	-	<0.1	0.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	2.5	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	0.8	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	9.6	-	<0.1	0.9	-	25	4.6	0.3	1.7	0.9	<0.1	<0.1	-	0.5	-	<0.1	0.2
	Chrysene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	17	-	<0.1	1.7	-	40	6.1	0.4	2	1.2	<0.1	<0.1	-	0.6	-	<0.1	0.3
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	2.4	-	<0.1	0.2	-	2.7	0.8	<0.1	0.3	0.2	<0.1	<0.1	-	<0.1	-	<0.1	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	51	-	0.2	6	-	120	16	1.1	3.9	2.5	0.1	<0.1	-	1.1	-	<0.1	0.6
	Fluorene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	9	-	<0.1	1.2	-	8.9	3.6	<0.1	0.6	0.3	<0.1	<0.1	-	<0.1	-	<0.1	0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	8.8	-	<0.1	0.9	-	23	3.9	0.3	1.4	0.8	<0.1	<0.1	-	0.4	-	<0.1	0.1
	Naphthalene	mg/kg	0.1 / 0.5	3	<0.1	<0.1	5	-	<0.1	0.7	-	2.6	2.6	<0.1	0.4	0.3	<0.1	<0.1	-	<0.1	-	<0.1	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	52	-	0.1	6.7	-	84	14	0.5	3.2	1.7	<0.1	<0.1	-	0.5	-	<0.1	0.8
	Pyrene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	51	-	0.1	5.6	-	120	18	1.2	6.3	3.8	0.2	<0.1	-	1.2	-	<0.1	0.8
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	<1.75	<1.75	280	-	<1.75	32	-	-	110	5.6	29	17	<1.75	<1.75	-	6.5	-	<1.75	4.2
	Benzo(a)pyrene TEQ	mg/kg	-	4	-	-	28.9	-	-	3.0	-	64.6	9.4	-	4.4	2.5	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	ND	ND	-	ND	ND	-	ND	-	ND	ND	-	ND	ND	-	ND	D	D	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	<LOR	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	<LOR	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	<LOR	-
	Other VOC	mg/kg	-	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	<LOR	-
Other SVOC	SVOC	mg/kg	-	LOR	-	<LOR	-	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m	BH4 1.0m	BH4 1.5m
LocCode	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m	BH4 1.0m	BH4 1.5m
Sample_Depth_Range	5.5	1-1.1	2.5-2.6															
Sampled_Date-Time	17/06/2011	21/06/2011	21/06/2011	16/06/2011	16/06/2011	16/06/2011	16/06/2011	3/06/2011	3/06/2011	3/06/2011	3/06/2011	2/06/2011	2/06/2011	2/06/2011	2/06/2011	6/06/2011	6/06/2011	6/06/2011
Matrix_Description																		
SDG	SE100711-1	SE100739-1	SE100739-1	SE100735-1	SE100735-1	SE100735-1	SE100735-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1

Chem_Group	ChemName	Units	LOR	HIL																	
Inorganics	Moisture	%	0.5		24	16	32	24	23	18	17	8.5	-	13	17	13	17	-	15	12	-	-
Metals	Arsenic	mg/kg	2 / 3	500	6	6	11	6	7	<3	16	4	-	23	28	4	4	-	<3	12	-	-
	Cadmium	mg/kg	0.3 / 0.4	150	0.5	<0.3	0.5	0.6	0.6	<0.3	0.5	<0.3	-	0.4	0.4	<0.3	<0.3	-	<0.3	<0.3	-	-
	Chromium	mg/kg	0.3 / 5	500	14	12	31	14	11	9.5	13	7.4	-	16	11	7.5	14	-	6	10	-	-
	Copper	mg/kg	0.5	30000	9.4	61	79	72	46	7.3	8.6	9.9	-	51	56	51	58	-	4.9	63	-	-
	Lead	mg/kg	1 / 5	1200	19	110	300	240	140	15	13	15	-	93	98	15	27	-	6	47	-	-
	Mercury	mg/kg	0.05	120	0.06	0.74	2.2	4.9	0.44	0.07	<0.05	<0.05	-	0.55	0.37	<0.05	0.48	-	<0.05	0.15	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	6.8	3.7	14	6.7	2.7	3.5	2.5	11	-	11	7	6.6	22	-	0.9	5.6	-	-
	Zinc	mg/kg	0.5 / 5	60000	130	100	100	340	110	19	27	38	-	160	110	32	50	-	1.9	91	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	0.5	<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	-	-
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<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	-	-
	Toluene	mg/kg	0.1	160	<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 (m & p)	mg/kg	0.2 / 1	-	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<0.2	<0.2	<0.2	-	<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	-	<0.5	<0.1	<0.1	<0.1	-	<0.5	<0.5	-	-
	Xylene Total	mg/kg	0.3 / 1.5	40	<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	<0.3	-	-
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	5800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	8100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	10 / 20	45	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20	<20	-	<20	<20	-	-
	C10 - C14	mg/kg	20 / 50	110	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20	<20	-	<20	<20	-	-
	C15 - C28	mg/kg	50 / 100	5800	<50	<50	<50	<50	<50	<50	<50	<50	-	140	130	<50	<50	-	<50	<50	-	-
	C29 - C36	mg/kg	50 / 100	8100	<50	<50	<50	<50	<50	<50	<50	<50	-	88	92	<50	<50	-	<50	<50	-	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<120	<120	<120	<120	<120	<120	<120	<120	-	238	232	<120	<120	-	<120	<120	-	-
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	<0.1	<0.5	<0.1	-	-	<0.1	-	-
	Acenaphthylene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.2	<0.5	<0.1	-	-	<0.1	-	-
	Anthracene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.4	<0.5	<0.1	-	-	0.1	-	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	-	0.2	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.9	<0.5	0.1	-	-	0.3	-	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	-	0.06	<0.05	<0.05	<0.05	-	-	<0.05	-	-	0.86	<0.5	0.1	-	-	0.35	-	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.3	<1	<0.1	-	-	0.2	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.5	<0.5	<0.1	-	-	0.2	-	-
	Chrysene	mg/kg	0.1 / 0.5	-	-	0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.7	<0.5	<0.1	-	-	0.3	-	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.1	<0.5	<0.1	-	-	<0.1	-	-
	Fluoranthene	mg/kg	0.1 / 0.5	-	-	0.2	<0.1	0.2	<0.1	-	-	<0.1	-	-	1.7	<0.5	0.2	-	-	0.7	-	-
	Fluorene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.2	<0.5	<0.1	-	-	<0.1	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.4	<0.5	<0.1	-	-	0.2	-	-
	Naphthalene	mg/kg	0.1 / 0.5	3	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	<0.1 - 0.1	<0.1	<0.1	-	-	<0.1	-	-
	Phenanthrene	mg/kg	0.1 / 0.5	-	-	0.1	<0.1	0.1	<0.1	-	-	<0.1	-	-	1.1	<0.5	<0.1	-	-	0.3	-	-
	Pyrene	mg/kg	0.1 / 0.5	-	-	0.3	<0.1	0.2	<0.1	-	-	<0.1	-	-	1.6	<0.5	0.2	-	-	0.6	-	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	-	<1.75	<1.75	<1.75	<1.75	-	-	<1.75	-	-	10	-	<1.75	-	-	3.8	-	-
	Benzo(a)pyrene TEQ	mg/kg	-	4	-	-	-	-	-	-	-	-	-	-	1.1	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	ND	ND	ND	ND	-	-	ND	ND	-	-	-	ND	ND	-	-	ND	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	-	-	-	-	-

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SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6	EB2/2.0-2.1	EB3/1.0-1.1
LocCode	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6	EB2/2.0-2.1	EB3/1.0-1.1
Sample_Depth_Range																		
Sampled_Date-Time	6/06/2011	6/06/2011	14/06/2011	14/06/2011	14/06/2011	9/06/2011	9/06/2011	6/06/2011	9/06/2011	14/06/2011	15/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011
Matrix_Description																		
SDG	SE100639-1	SE100639-1	SE100735-1	SE100735-1	SE100735-1	SE100700-1	SE100700-1	SE100639-1	SE100700-1	SE100735-1	SE100735-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1

Chem_Group	ChemName	Units	LOR	HIL																	
Inorganics	Moisture	%	0.5		15	14	15	18	23	21	21	-	18	8.1	9	-	20	17	18	13	17	-
Metals	Arsenic	mg/kg	2 / 3	500	14	<3	4	-	6	3	8	-	25	5	4	-	13	6	8	9	7	-
	Cadmium	mg/kg	0.3 / 0.4	150	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	0.6	0.8	0.3	-	0.5	<0.3	<0.3	0.3	<0.3	-
	Chromium	mg/kg	0.3 / 5	500	12	12	9.8	-	11	13	6.4	-	13	12	12	-	29	15	13	9.7	13	-
	Copper	mg/kg	0.5	30000	42	1.2	26	-	14	16	9.3	-	1.2	39	30	-	98	30	15	320	18	-
	Lead	mg/kg	1 / 5	1200	110	7	57	-	37	12	15	-	12	130	66	-	540	75	31	190	32	-
	Mercury	mg/kg	0.05	120	0.64	<0.05	0.24	-	0.23	<0.05	0.41	-	<0.05	0.27	0.12	-	1.2	0.22	0.05	0.64	1	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	10	1.2	13	-	5.7	13	1.2	-	1.3	7.2	19	-	26	6.5	1.9	13	3.5	-
	Zinc	mg/kg	0.5 / 5	60000	110	2.5	96	-	25	22	12	-	7.9	190	93	-	460	89	22	270	32	-
BTEX	Benzene	mg/kg	0.1 / 0.5	0.5	<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	-
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<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	-
	Toluene	mg/kg	0.1	160	<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 (m & p)	mg/kg	0.2 / 1	-	<0.2	<1	<1	<0.2	<1	-	<0.2	-	<1	<1	<1	-	<0.2	<0.2	<1	<1	<1	-
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.1	<0.5	<0.5	<0.1	<0.5	-	<0.1	-	<0.5	<0.5	<0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	-
	Xylene Total	mg/kg	0.3 / 1.5	40	<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	<0.3	-
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	5800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	8100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	10 / 20	45	<20	<20	<20	-	<20	-	-	-	-	<20	<20	-	<20	<20	<20	<20	<20	-
	C10 - C14	mg/kg	20 / 50	110	<20	<20	<20	-	<20	-	-	-	-	<20	<20	-	130	<20	<20	<20	<20	-
	C15 - C28	mg/kg	50 / 100	5800	380	<50	<50	-	<50	-	-	-	-	89	54	-	4300	290	310	170	<50	-
	C29 - C36	mg/kg	50 / 100	8100	110	<50	<50	-	<50	-	-	-	-	76	53	-	1900	150	140	130	<50	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	500	<120	<120	-	<120	-	-	-	-	175	117	-	6330	450	460	310	<120	-
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	35	1.6	2.4	0.2	<0.1	-
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.5	0.2	-	1.1	<0.1	<0.1	0.4	<0.1	-
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.7	0.2	-	69	3.2	<0.1	1	0.3	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	1.6	0.8	-	160	8.7	<0.1	4	0.4	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	-	0.24	-	<0.05	<0.05	<0.05	-	<0.05	1.5	0.92	-	74	4.3	<0.05	3.2	0.35	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	-	0.4	-	<0.1	<0.1	<0.1	-	<0.1	0.9	0.5	-	-	-	<0.1	1.2	0.1	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	110	6.6	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	34	1.3	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	1	0.7	-	38	2.3	<0.1	1.9	0.2	-
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	1.4	0.7	-	98	4.5	<0.1	1.9	0.3	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.1	<0.1	-	12	0.8	<0.1	0.5	<0.1	-
	Fluoranthene	mg/kg	0.1 / 0.5	-	0.6	-	0.5	-	<0.1	<0.1	<0.1	-	<0.1	2.9	1.3	-	220	13	<0.1	5.2	0.8	-
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.2	<0.1	-	50	2.2	<0.1	0.4	0.1	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.8	0.5	-	32	2.2	<0.1	1.9	0.2	-
	Naphthalene	mg/kg	0.1 / 0.5	3	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	0.1	<0.1	-	9.8	0.6	0.6	0.3	<0.1	-
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	2.1	0.5	-	370	15	<0.1	3.2	0.6	-
	Pyrene	mg/kg	0.1 / 0.5	-	1.2	-	0.5	-	<0.1	<0.1	<0.1	-	<0.1	2.8	1.4	-	220	12	<0.1	5.4	0.8	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	-	-	2.2	-	<1.75	<1.75	<1.75	-	<1.75	16	7.1	-	1400	70	3	35	4.7	-
	Benzo(a)pyrene TEQ	mg/kg	-	4	-	-	-	-	-	-	-	-	-	2.0	-	-	110.0	6.4	-	4.4	-	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-	-	-
	Other VOC	mg/kg	-	LOR	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	-	-	-	-

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Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9	BH29_0.4-0.5
LocCode	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9	BH29_0.4-0.5
Sample_Depth_Range															
Sampled_Date-Time	10/06/2011	10/06/2011	10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	18/04/2012	18/04/2012	18/04/2012	24/04/2012	27/04/2012	27/04/2012	27/04/2012	17/04/2012
Matrix_Description															
SDG	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE107686-1	SE107686-1	SE107686-1	SE107335-1	SE107335-1	SE107335-1	SE107686-1	SE107819-1	SE107819-1	SE107819-1	SE107335-1
Inorganics	Moisture	%	0.5		10	15	9.1	18	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	13	6	5	-	3	5	8	4	12	12	4	6	5	<3	<3
	Cadmium	mg/kg	0.3 / 0.4	150	<0.3	<0.3	<0.3	-	0.3	0.3	<0.3	<0.3	0.4	0.3	0.4	0.3	<0.3	<0.3	0.3
	Chromium	mg/kg	0.3 / 5	500	18	9.5	15	-	5.1	7.9	5.6	7.3	9.9	21	6.9	6.9	17	16	22
	Copper	mg/kg	0.5	30000	110	7.3	12	-	51	580	5.8	23	41	63	98	2.3	13	8.6	80
	Lead	mg/kg	1 / 5	1200	310	23	31	-	220	92	14	13	93	91	96	9	30	15	24
	Mercury	mg/kg	0.05	120	0.68	<0.05	0.07	-	0.89	1.3	0.07	0.07	0.26	0.18	0.13	<0.05	0.08	<0.05	0.3
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	11	1.3	4.6	-	12	7.3	1.6	5	16	4.8	11	<0.5	12	3.7	38
	Zinc	mg/kg	0.5 / 5	60000	190	12	17	-	310	110	6	33	100	95	210	21	27	3.7	71
BTEX	Benzene	mg/kg	0.1 / 0.5	0.5	<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	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<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	<0.1
	Toluene	mg/kg	0.1	160	<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	<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	<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	<0.1	<0.1	<0.1	<0.1
	Xylene Total	mg/kg	0.3 / 1.5	40	<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	<0.3	<0.3
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	5800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	8100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	10 / 20	45	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	110	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	30	<20	<20	<20	20
	C15 - C28	mg/kg	50 / 100	5800	320	<50	<50	<50	<50	<50	<50	<50	190	<50	450	<50	<50	<50	2500
	C29 - C36	mg/kg	50 / 100	8100	190	<50	<50	<50	<50	<50	<50	<50	55	<50	420	<50	<50	<50	1700
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	520	<120	<120	<120	<120	<120	<120	<120	255	<120	900	<120	<120	<120	4220
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	3	<0.1	<0.1	<0.1	0.2
	Acenaphthylene	mg/kg	0.1 / 0.5	-	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.1	1.4	<0.1	<0.1	<0.1	0.1
	Anthracene	mg/kg	0.1 / 0.5	-	2.3	<0.1	0.2	<0.1	0.1	<0.1	<0.1	<0.1	1.2	0.3	3.8	<0.1	<0.1	<0.1	0.7
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	6.4	0.3	0.4	<0.1	0.3	0.2	<0.1	<0.1	2.2	0.6	4.8	<0.1	<0.1	<0.1	0.8
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	3.9	0.15	0.25	<0.05	0.3	0.1	<0.1	<0.1	1.6	0.5	4.4	<0.1	<0.1	<0.1	0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	1.5	<0.1	0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	0.4	0.2	<0.1	<0.1	1.9	0.6	5.9	<0.1	<0.1	<0.1	0.7
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	0.2	<0.1	<0.1	<0.1	0.7	0.3	2	<0.1	<0.1	<0.1	0.4
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	2.1	<0.1	0.2	<0.1	0.2	0.1	<0.1	<0.1	0.8	0.3	3.2	<0.1	<0.1	<0.1	0.5
	Chrysene	mg/kg	0.1 / 0.5	-	3.2	0.1	0.2	<0.1	0.3	0.2	<0.1	<0.1	1.4	0.4	3.6	<0.1	<0.1	<0.1	0.8
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	-	9.1	0.4	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.9	1	15	<0.1	<0.1	<0.1	1.5
	Fluorene	mg/kg	0.1 / 0.5	-	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.1	<1	<0.1	<0.1	<0.1	0.3
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	2.2	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.7	0.2	2.3	<0.1	<0.1	<0.1	0.3
	Naphthalene	mg/kg	0.1 / 0.5	3	0.7	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.2	<0.1	1.2	<0.1	<0.1	<0.1	0.1
	Phenanthrene	mg/kg	0.1 / 0.5	-	7.9	0.3	0.6	<0.1	0.5	0.2	<0.1	<0.1	3.1	0.8	8.2	<0.1	<0.1	<0.1	3.2
	Pyrene	mg/kg	0.1 / 0.5	-	8.8	0.3	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.7	1	14	<0.1	<0.1	<0.1	1.3
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	58	<1.75	3.8	<1.75	3.3	1.4	<0.8	<0.8	23	6	73	<0.8	<0.8	<0.8	11
	Benzo(a)pyrene TEQ	mg/kg	-	4	5.6	-	-	-	-	-	-	-	-	-	6.4	-	-	-	0.8
Asbestos	Asbestos	-	-	Detect	ND	ND	ND	-	ND	-	-	ND	-	-	ND	ND	-	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)
LocCode	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)
Sample_Depth_Range													
Sampled_Date-Time	17/04/2012	17/04/2012	27/04/2012	27/04/2012	27/04/2012	27/04/2012	24/04/2012	24/04/2012	24/04/2012	24/04/2012	12/12/2012	12/12/2012	12/12/2012
Matrix_Description													
SDG	SE107335-1	SE107335-1	SE107819-1	SE107819-1	SE107819-1	SE107819-1	SE107686-1	SE107686-1	SE107686-1	SE107686-1	103789-90	103789-90	103789-90

Chem_Group	ChemName	Units	LOR	HIL													
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	4	3	<3	4	<3	9	<3	-	<3	16	4.6	<2	-
	Cadmium	mg/kg	0.3 / 0.4	150	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.4	<0.4	-
	Chromium	mg/kg	0.3 / 5	500	8.9	4.7	11	11	9.7	260	4.9	-	7.6	12	5.6	7	-
	Copper	mg/kg	0.5	30000	83	5.5	35	8.7	4.7	33	5.4	-	8.5	3.4	17	23	-
	Lead	mg/kg	1 / 5	1200	230	6	51	18	27	19	11	-	16	14	58	44	-
	Mercury	mg/kg	0.05	120	2.1	<0.05	0.28	0.08	0.08	<0.05	<0.05	-	<0.05	<0.05	0.06	0.07	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	9.6	<0.5	31	3.2	2.1	25	3.6	-	6.2	4.1	11	7.3	-
	Zinc	mg/kg	0.5 / 5	60000	310	3.5	89	23	32	9.4	22	-	33	9.9	250	280	-
BTEX	Benzene	mg/kg	0.1 / 0.5	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.4	<0.1	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	160	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	1.1	<0.2	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.3	<0.1	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	40	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	1.4	<0.3	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	-	-	-	-	-	-	-	-	-	-	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	-	-	-	-	-	-	-	-	-	-	<50	<50	<50
	C16 - C34	mg/kg	100	5800	-	-	-	-	-	-	-	-	-	-	<100	<100	<100
	C34 - C40	mg/kg	100	8100	-	-	-	-	-	-	-	-	-	-	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	45	<20	<20	<20	<20	<20	<20	<20	-	21	<20	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	<20	<20	<20	<20	<20	<20	<20	-	62	<20	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5800	840	<50	<50	<50	<50	<50	<50	-	2400	<50	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	8100	380	<50	<50	<50	<50	<50	<50	-	1100	<50	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	1230	<120	<120	<120	<120	<120	<120	-	3562	<120	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	2.5	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	-	13	<0.1	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	4.7	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	-	<1	<0.1	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	13	0.2	0.7	<0.1	0.3	<0.1	<0.1	-	23	0.1	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	26	0.2	1.2	<0.1	0.5	<0.1	<0.1	-	50	0.3	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	16	0.1	1	<0.1	0.6	<0.1	<0.1	-	30	0.2	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	21	0.2	1.1	<0.1	<0.1	<0.1	<0.1	-	28	0.2	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	5.6	0.1	0.6	<0.1	0.4	<0.1	<0.1	-	10	0.1	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	9.3	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	-	15	0.1	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	14	0.2	0.9	<0.1	0.4	<0.1	<0.1	-	42	0.3	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	2.5	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	-	3.1	<0.1	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	53	0.5	2.6	<0.1	1.2	<0.1	<0.1	-	79	0.4	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	5.5	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	-	12	<0.1	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	8.1	<0.1	0.5	<0.1	0.4	<0.1	<0.1	-	11	<0.1	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	3	2.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<1	<0.1	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	69	0.6	2	<0.1	0.8	<0.1	<0.1	-	120	0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	51	0.5	2.4	<0.1	1.2	<0.1	<0.1	-	110	0.6	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	300	2.3	14	<0.8	<0.8	<0.8	<0.8	-	550	2.7	<1	<1	<1
	Benzo(a)pyrene TEQ	mg/kg	-	4	22.7	-	1.3			-	-	-	40.8	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	-	-	-	ND	ND	-	-	-	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_(0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)
LocCode	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)
Sample_Depth_Range											
Sampled_Date-Time	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
Matrix_Description											
SDG	103789-90	103789-90	103789-90	103789-90	103787-103788		103787-103788		103787-103788	103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	-	2.8	4.1	-	<2	-	4.8	-	3.8	16	34
	Cadmium	mg/kg	0.3 / 0.4	150	-	<0.4	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	500	-	6.1	<5	-	<5	-	<5	-	21	24	35
	Copper	mg/kg	0.5	30000	-	<5	5	-	75	-	17	-	24	<5	96
	Lead	mg/kg	1 / 5	1200	-	13	7.6	-	5.6	-	40	-	190	63	530
	Mercury	mg/kg	0.05	120	-	<0.05	<0.05	-	<0.05	-	0.2	-	1.8	0.51	4.9
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	<5	<5	-	210	-	6.3	-	6.7	<5	35
	Zinc	mg/kg	0.5 / 5	60000	-	78	140	-	90	-	26	-	70	30	220
BTEX	Benzene	mg/kg	0.1 / 0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	160	<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	<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	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	40	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	-	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	<20	<20	<20	<20	<20	-	<20	-	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	<50	<50	<50	<50	<50	-	<50	-	<50	<50	<50
	C16 - C34	mg/kg	100	5800	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
	C34 - C40	mg/kg	100	8100	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	45	<10	<10	<10	<10	<10	-	<10	-	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	<50	<50	<50	<50	<50	-	<50	-	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5800	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	8100	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 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	0.1 / 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	0.05 / 0.1 / 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	0.1 / 1	-	<1	<1	<1	<1	<1	-	<1	-	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	<1	<1	<1	<1	<1	-	<1	-	<1	<1	<1
	Benzo(a)pyrene TEQ	mg/kg	-	4	-	-	-	-	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	-	-	-	ND	D	ND	ND	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-		-		-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-		-		-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-		-		-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-		-		-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-		-		-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	BH120_(0.03-0.13m)_A	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)
LocCode	BH120_(0.03-0.13m)_A	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)
Sample_Depth_Range											
Sampled_Date-Time	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012
Matrix_Description											
SDG	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99

Chem_Group	ChemName	Units	LOR	HIL										
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	-	4	6.1	-	-	-	-	-	8.7	-	14
	Cadmium	mg/kg	0.3 / 0.4	150	-	<0.4	<0.4	-	-	-	-	-	<0.4	-	<0.4
	Chromium	mg/kg	0.3 / 5	500	-	110	6.7	-	-	-	-	-	42	-	11
	Copper	mg/kg	0.5	30000	-	43	51	-	-	-	-	-	130	-	93
	Lead	mg/kg	1 / 5	1200	-	6.2	250	-	-	-	-	-	79	-	160
	Mercury	mg/kg	0.05	120	-	<0.05	0.57	-	-	-	-	-	0.41	-	0.59
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	120	<5	-	-	-	-	-	51	-	14
	Zinc	mg/kg	0.5 / 5	60000	-	79	190	-	-	-	-	-	120	-	150
BTEX	Benzene	mg/kg	0.1 / 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
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	160	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	40	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5800	<100	<100	<100	<100	410	170	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	8100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	45	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5800	<100	<100	<100	160	390	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	8100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	160	390	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.7	4.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	8.9	<0.5	<0.5	<0.5	1.1	1.2	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	1.2	5.6	12	<0.5	<0.5	<0.5	<0.5	<0.5	0.7
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	1.4	3.9	8.7	<0.5	<0.5	0.7	0.8	<0.5	0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	2.2	7.1	15	<1	<1	1.4	<1	<1	1.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	1	2	4.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	1.2	4.8	9.6	<0.5	<0.5	0.8	<0.5	<0.5	0.6
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	1.9	12	27	<0.5	<0.5	2	2.3	<0.5	0.9
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.7	3.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	0.8	1.8	4.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	1.1	9.1	31	<0.5	<0.5	1.2	1.2	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	2.1	10	23	<0.5	<0.5	1.7	2	<0.5	1
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	<1	<1	13	67	140	<1	<1	8.9	7.5	<1	4.8
	Benzo(a)pyrene TEQ	mg/kg	-	4	-	-	2.3	5.9	12.5			1.5	1.5	-	-
Asbestos	Asbestos	-	-	Detect	ND	-	ND	-	-	-	-	-	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	<LOR	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	<LOR	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	<LOR	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	<LOR	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	<LOR	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1M)	BH122A_(1.5-1.6m)_A	BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)
LocCode	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1m)	BH122A_(1.5-1.6m)_A	BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)
Sample_Depth_Range											
Sampled_Date-Time	18/12/2012	18/12/2012	18/12/2012	18/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
Matrix_Description											
SDG	103797-99	103797-99	103797-99	103797-99	103789-90	103789-90	103791-93		103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	-	-	14	-	2.1	-	2.8	-	5.2	4.5	5
	Cadmium	mg/kg	0.3 / 0.4	150	-	-	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	500	-	-	27	-	11	-	7.5	-	11	11	11
	Copper	mg/kg	0.5	30000	-	-	350	-	20	-	29	-	26	26	48
	Lead	mg/kg	1 / 5	1200	-	-	2700	-	35	-	47	-	56	52	140
	Mercury	mg/kg	0.05	120	-	-	3.4	-	0.06	-	0.06	-	0.12	0.16	0.35
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	-	62	-	8	-	<5	-	<5	<5	<5
	Zinc	mg/kg	0.5 / 5	60000	-	-	310	-	60	-	55	-	63	56	81
BTEX	Benzene	mg/kg	0.1 / 0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	160	<0.5	<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	<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	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	40	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	<50	<50	<50	<50	<50	<50	<50	-	<50	<50	<50
	C16 - C34	mg/kg	100	5800	1800	680	490	<100	<100	<100	<100	-	<100	230	<100
	C34 - C40	mg/kg	100	8100	320	<100	130	<100	<100	<100	<100	-	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	45	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	<50	<50	<50	<50	<50	<50	<50	-	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5800	1300	520	350	<100	<100	<100	<100	-	<100	180	<100
	C29 - C36	mg/kg	50 / 100	8100	810	270	270	<100	<100	<100	<100	-	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	2135	790	620	<100	<100	<100	<100	-	<100	180	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<5	<5	1.4	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	7.9	14	3.6	<0.5	<0.5	<0.5	<0.5	-	<0.5	0.7	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	31	18	10	<0.5	<0.5	1.3	<0.5	-	1.3	2.2	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	22	13	7.8	<0.5	<0.5	1.3	<0.5	-	1.2	2.1	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	39	21	13	<1	<1	2	<1	-	2.1	3.5	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	11	6.6	3.8	<0.5	<0.5	0.7	<0.5	-	0.7	1.1	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	23	14	8	<0.5	<0.5	1.1	<0.5	-	1.1	2	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	55	30	18	0.8	0.9	2.4	<0.5	-	2.4	4.2	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<5	<5	1.2	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	9.8	<5	3.5	<0.5	<0.5	0.6	<0.5	-	0.6	1	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	3	1	0.6	0.8	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	28	14	14	<0.5	0.6	1.4	<0.5	-	1.4	2.7	0.8
	Pyrene	mg/kg	0.1 / 0.5	-	53	31	17	0.8	0.9	2.3	<0.5	-	2.2	4	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	280	160	100	1.6	2.4	13	<1	-	13	24	<1
	Benzo(a)pyrene TEQ	mg/kg	-	4	35.3	22.6	11.1	-	-	-	-	-	2.1	3.3	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	-	ND	-	ND	ND	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-		-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-		-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-		-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-		-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-		-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)
LocCode	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)
Sample_Depth_Range											
Sampled_Date-Time	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
Matrix_Description											
SDG	103791-93	103791-93	103789-90	103789-90	103789-90	103789-90	103791-93	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR	HIL										
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	<2	-	-	-	-	-	7.6	6.1	6.4	9.3	6.9
	Cadmium	mg/kg	0.3 / 0.4	150	<0.4	-	-	-	-	-	0.4	<0.4	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	500	7.6	-	-	-	-	-	10	<5	<5	6.7	12
	Copper	mg/kg	0.5	30000	6.9	-	-	-	-	-	50	26	32	46	9.4
	Lead	mg/kg	1 / 5	1200	9.3	-	-	-	-	-	69	36	47	40	<5
	Mercury	mg/kg	0.05	120	0.11	-	-	-	-	-	0.12	0.1	0.11	0.13	0.07
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	<5	-	-	-	-	-	11	<5	5.3	<5	<5
	Zinc	mg/kg	0.5 / 5	60000	<5	-	-	-	-	-	110	51	69	41	13
BTEX	Benzene	mg/kg	0.1 / 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
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	160	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	40	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	<50	<50	<50	<50	60	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5800	<100	<100	<100	<100	840	390	<100	180	180	<100	<100
	C34 - C40	mg/kg	100	8100	<100	<100	<100	<100	100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	45	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5800	<100	<100	<100	<100	810	380	<100	140	110	<100	<100
	C29 - C36	mg/kg	50 / 100	8100	<100	<100	<100	<100	220	100	<100	<100	100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	1055	505	<100	140	210	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	2.6	0.8	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	5.3	4.8	<0.5	0.8	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	12	6	<0.5	1.3	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.6	34	13	<0.5	2.8	1.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	0.7	30	14	<0.5	2.9	1.7	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	<1	1.2	46	20	<1	4.6	2.7	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	13	6.7	<0.5	1.8	1.1	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.6	27	8.8	<0.5	2.7	1.4	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	4	1.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	1	58	28	0.9	5.7	2.5	0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	6.2	3.9	<0.5	0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	12	5.6	<0.5	1.6	0.9	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	3	2.7	<0.5	0.6	2.1	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	44	19	0.8	4.8	1.1	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	1.1	55	25	0.9	5.5	2.6	0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	<1	<1	<1	5.2	350	160	2.6	36	18	1	<1
	Benzo(a)pyrene TEQ	mg/kg	-	4	-	-	-	1.4	43.6	19.6	-	4.3	2.7	-	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	ND	-	-	ND	ND	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-

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SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	BH123A_(4.0-4.1m)	BH124_(0.01-0.11M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)
LocCode	BH123A_(4.0-4.1m)	BH124_(0.01-1.1M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)
Sample_Depth_Range											
Sampled_Date-Time	13/12/2012	13/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
Matrix_Description											
SDG	103791-93		103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	2.5	-	13	13	6.8	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	150	<0.4	-	1	0.6	0.4	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	500	<5	-	12	11	8.5	-	-	-	-	-	-
	Copper	mg/kg	0.5	30000	<5	-	92	140	59	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	1200	<5	-	180	120	64	-	-	-	-	-	-
	Mercury	mg/kg	0.05	120	<0.05	-	0.22	0.26	0.23	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	<5	-	16	12	20	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	60000	<5	-	240	170	94	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	160	<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	<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	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	40	<1.5	-	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	<50	-	<50	<50	<50	300	1600	1300	<50	1600	1300
	C16 - C34	mg/kg	100	5800	<100	-	<100	<100	<100	1100	2700	1900	140	2200	2000
	C34 - C40	mg/kg	100	8100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	45	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	<50	-	<50	<50	<50	110	620	630	<50	630	660
	C15 - C28	mg/kg	50 / 100	5800	<100	-	<100	<100	<100	1300	3800	2700	<100	3200	2600
	C29 - C36	mg/kg	50 / 100	8100	<100	-	<100	<100	<100	220	350	220	160	320	310
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	-	<100	<100	<100	1630	4770	3550	160	4150	3600
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 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	0.1 / 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	0.05 / 0.1 / 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	0.1 / 1	-	<1	-	<1	<1	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	-	1.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	0.9	1.4	<0.5	1.2	1.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	3	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	-	1	<0.5	<0.5	-	1.3	<0.5	<0.5	1.9	1.6
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	-	1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	<1	-	4.1	<1	-	-	-	-	-	-	-
	Benzo(a)pyrene TEQ	mg/kg	-	4	-	-	-	-	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	ND	ND	-	-	-	-	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR	<LOR
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	0.7	0.8
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	1.3	0.9
	Other VOC	mg/kg	-	LOR	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR	<LOR
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR	<LOR

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Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	BH125_(0.23-0.33m)_A	BH125_(0.23-0.33m)	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	BH126_(0.5-0.6m)_A
LocCode	BH125_(0.23-0.33m)_A	BH125_(0.23-0.33m)	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	BH126_(0.5-0.6m)_A
Sample_Depth_Range											
Sampled_Date-Time	11/12/2012	11/12/2012	11/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	12/12/2012	12/12/2012
Matrix_Description											
SDG	103786	103786	103786	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	2.9	3.6	5.1	-	<2	16	-	-	-	<2	3.7
	Cadmium	mg/kg	0.3 / 0.4	150	<0.4	<0.4	<0.4	-	<0.4	<0.4	-	-	-	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	500	<5	<5	18	-	<5	15	-	-	-	<5	<5
	Copper	mg/kg	0.5	30000	26	39	43	-	5.8	19	-	-	-	15	20
	Lead	mg/kg	1 / 5	1200	99	84	110	-	13	57	-	-	-	33	68
	Mercury	mg/kg	0.05	120	0.21	0.24	0.34	-	<0.05	0.62	-	-	-	0.3	0.36
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	<5	<5	5.3	-	<5	9.1	-	-	-	<5	<5
	Zinc	mg/kg	0.5 / 5	60000	93	74	77	-	12	220	-	-	-	29	95
BTEX	Benzene	mg/kg	0.1 / 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
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	160	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	40	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5800	1200	1000	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	8100	130	100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	45	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5800	940	740	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	8100	530	470	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	1500	1235	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	2.1	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	18	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	18	13	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	27	31	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	20	25	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	33	39	1.4	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	7.8	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	18	24	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	1.8	3.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	66	65	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	15	4.5	<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	0.1 / 0.5	-	7.4	9.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	3	18	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	87	65	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	54	64	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	390	370	9.7	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(a)pyrene TEQ	mg/kg	-	4	28.8	36.4	1.5	-	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	-	-	-	ND	ND	-	-	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-

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Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M)_A
LocCode	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M)_A
Sample_Depth_Range											
Sampled_Date-Time	12/12/2012	12/12/2012	12/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	17/12/2012
Matrix_Description											
SDG	103787-103788	103787-103788	103787-103788	103784-103785	103784-103785	103786	103786	103786	103786	103786	103794-103796

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	<2	3.5	25	<2	<2	3.6	5.2	4.4	<2	-	3.4
	Cadmium	mg/kg	0.3 / 0.4	150	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	-	<0.4
	Chromium	mg/kg	0.3 / 5	500	<5	7.4	<5	<5	6.3	9.3	7.6	5.5	<5	-	12
	Copper	mg/kg	0.5	30000	41	560	<5	64	55	28	43	42	<5	-	27
	Lead	mg/kg	1 / 5	1200	95	710	9.7	11	6.8	85	190	160	<5	-	89
	Mercury	mg/kg	0.05	120	0.47	5.7	<0.05	<0.05	<0.05	0.17	0.55	0.55	<0.05	-	0.18
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	5.7	7.4	<5	130	120	15	14	15	<5	-	5.6
	Zinc	mg/kg	0.5 / 5	60000	100	140	<5	71	67	93	140	140	<5	-	78
BTEX	Benzene	mg/kg	0.1 / 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
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	160	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	40	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5800	<100	110	240	<100	<100	550	780	550	110	<100	<100
	C34 - C40	mg/kg	100	8100	<100	<100	<100	<100	<100	760	400	390	170	<100	<100
	C6 - C9	mg/kg	10 / 20	45	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5800	<100	<100	250	<100	<100	250	350	190	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	8100	<100	<100	<100	<100	<100	550	860	730	260	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	250	<100	<100	800	1235	945	260	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	3.7	2.3	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	0.7	1.3	<0.5	<0.5	<0.5	0.5	6.7	3.6	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	1.3	4.1	<0.5	<0.5	<0.5	0.8	15	7.4	<0.5	<0.5	0.6
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	0.9	3.1	<0.5	<0.5	<0.5	0.8	12	5.9	<0.5	<0.5	0.7
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	1.6	5.9	<1	<1	<1	1.3	20	9.7	<1	<1	1.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	4.9	2.6	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	1.1	3.1	<0.5	<0.5	<0.5	0.7	11	5.1	<0.5	<0.5	0.6
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	2.8	7.3	<0.5	<0.5	<0.5	1.9	31	16	<0.5	0.5	1.2
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1	1.8	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	4.4	2.2	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	2.2	3.7	<0.5	<0.5	<0.5	1.2	21	13	<0.5	<0.5	0.7
	Pyrene	mg/kg	0.1 / 0.5	-	2.5	5.9	<0.5	<0.5	<0.5	1.9	28	14	<0.5	<0.5	1.2
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	13	38	<1	<1	<1	9.1	160	84	<1	<1	6.1
	Benzo(a)pyrene TEQ	mg/kg	-	4	1.8	4.8	-	-	-	-	16.6	8.4	-	-	-
Asbestos	Asbestos	-	-	Detect	ND	-	-	-	ND	ND	-	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-
	Other VOC	mg/kg	-	LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-

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Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)
LocCode	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)
Sample_Depth_Range											
Sampled_Date-Time	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	10/12/2012	10/12/2012	11/12/2012	11/12/2012
Matrix_Description											
SDG	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103784-103785	103784-103785	103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR	HIL										
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	5.2	-	7.4	4.5	3.5	-	-	4.1	4.9	6.9	9.6
	Cadmium	mg/kg	0.3 / 0.4	150	<0.4	-	<0.4	<0.4	<0.4	-	-	<0.4	0.5	0.5	0.6
	Chromium	mg/kg	0.3 / 5	500	12	-	21	23	11	-	-	<5	16	7.1	6.9
	Copper	mg/kg	0.5	30000	27	-	36	24	13	-	-	29	49	130	150
	Lead	mg/kg	1 / 5	1200	96	-	430	200	93	-	-	52	150	410	370
	Mercury	mg/kg	0.05	120	0.27	-	1.2	1.5	0.54	-	-	0.43	0.68	4.5	4.3
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	5.8	-	12	8.2	<5	-	-	6.6	14	12	14
	Zinc	mg/kg	0.5 / 5	60000	94	-	410	220	130	-	-	140	430	1700	1700
BTEX	Benzene	mg/kg	0.1 / 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
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	160	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	40	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5800	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	8100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	45	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5800	110	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	8100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	110	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 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	0.1 / 0.5	-	2.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	2.8	<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	0.1 / 0.5	-	4.4	1.2	0.7	1.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	2.9	1.2	0.9	1.4	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	5	2.1	1.6	2.3	<1	<1	<1	<1	1.1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	1.6	0.9	0.7	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	3	1.2	0.8	1.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	8.8	2	1.2	2	<0.5	<0.5	<0.5	<0.5	1	1	1
	Fluorene	mg/kg	0.1 / 0.5	-	1.7	<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	0.1 / 0.5	-	1.6	0.7	0.6	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	3	<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	0.1 / 0.5	-	11	1.2	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	7.4	2	1.3	2	<0.5	<0.5	<0.5	<0.5	1	0.9	0.9
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	53	13	7.8	13	<1	<1	<1	<1	4.9	1.9	1.9
	Benzo(a)pyrene TEQ	mg/kg	-	4	4.5	2.1	1.7	2.4	-	-	-	-	1.3	-	-
Asbestos	Asbestos	-	-	Detect	ND	ND	-	-	-	-	-	-	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	<LOR	-	1.8	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	<LOR	-	<LOR	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	<LOR	-	<LOR	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	<LOR	-	<LOR	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	<LOR	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)
LocCode	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)
Sample_Depth_Range											
Sampled_Date-Time	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	25/07/2012	26/07/2012
Matrix_Description											
SDG		103787-103788	103787-103788	103787-103788	103787-103788	92455-57	92455-57	92455-57	92455-57	89249-50	92458-59

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	-	9.3	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	150	-	1.2	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	500	-	10	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	30000	-	110	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	1200	-	330	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	120	-	3	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	11	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	60000	-	2200	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	55	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	160	-	<0.5	<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	<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	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	40	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	58
	C16 - C34	mg/kg	100	5800	-	<100	<100	<100	<100	580	940	<100	<100	<100	710
	C34 - C40	mg/kg	100	8100	-	<100	<100	<100	<100	110	230	<100	<100	<100	150
	C6 - C9	mg/kg	10 / 20	45	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5800	-	<100	<100	<100	<100	470	690	<100	<100	<100	540
	C29 - C36	mg/kg	50 / 100	8100	-	<100	<100	<100	<100	200	420	<100	<100	<100	280
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	-	<100	<100	<100	<100	670	1135	<100	<100	<100	820
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	5	<0.5	<0.5	<0.5	2
	Acenaphthylene	mg/kg	0.1 / 0.5	-	-	1	<0.5	<0.5	<0.5	3.5	0.7	<0.5	<0.5	<0.5	0.7
	Anthracene	mg/kg	0.1 / 0.5	-	-	1.9	<0.5	<0.5	<0.5	8.2	12	<0.5	<0.5	<0.5	5.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	-	3.4	0.8	<0.5	<0.5	16	20	<0.5	<0.5	0.6	11
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	-	2.9	0.7	<0.5	<0.5	10	19	<0.5	<0.5	0.6	7.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	4.7	1.1	<1	<1	17	28	<1	<1	1.1	13
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	-	1.4	<0.5	<0.5	<0.5	5.1	11	<0.5	<0.5	<0.5	3.2
	Chrysene	mg/kg	0.1 / 0.5	-	-	3.7	0.7	<0.5	<0.5	9.2	13	<0.5	<0.5	0.6	6.7
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	-	11	1.5	<0.5	<0.5	37	50	0.6	<0.5	1.2	18
	Fluorene	mg/kg	0.1 / 0.5	-	-	0.7	<0.5	<0.5	<0.5	1.9	5.1	<0.5	<0.5	<0.5	2.7
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	-	1.2	<0.5	<0.5	<0.5	4.2	8.6	<0.5	<0.5	<0.5	3.5
	Naphthalene	mg/kg	0.1 / 0.5	3	-	<0.5	<0.5	<0.5	<0.5	0.6	3.8	<0.5	<0.5	<0.5	1
	Phenanthrene	mg/kg	0.1 / 0.5	-	-	9.9	0.7	<0.5	<0.5	32	42	0.7	<0.5	0.7	16
	Pyrene	mg/kg	0.1 / 0.5	-	-	9.2	1.4	<0.5	<0.5	31	43	<0.5	<0.5	1.2	18
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	-	51	6.9	<1	<1	180	260	1.3	<1	6	110
	Benzo(a)pyrene TEQ	mg/kg	-	4	-	4.4	1.5	-	-	14.4	25.4	-	-	-	10.8
Asbestos	Asbestos	-	-	Detect	ND	-	-	-	-	ND	-	ND	-	ND	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	<LOR	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	<LOR	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	<LOR	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	<LOR	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR		<LOR	-	-	-	-	-	-	-	-	-

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SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.0-1.1m)
LocCode	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.0-1.1m)
Sample_Depth_Range											
Sampled_Date-Time	26/07/2012	26/07/2012	25/07/2012	25/07/2012	25/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012	25/07/2012	25/07/2012
Matrix_Description											
SDG	92458-59	92458-59	89249-50	89249-50	89249-50	92458-59	92458-59	92458-59	92458-59	89249-50	89249-50

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	150	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	500	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	30000	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	1200	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	120	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	60000	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Toluene	mg/kg	0.1	160	<0.5	<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	<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	<0.5	<0.5	-
	Xylene Total	mg/kg	0.3 / 1.5	40	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
	C16 - C34	mg/kg	100	5800	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
	C34 - C40	mg/kg	100	8100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
	C6 - C9	mg/kg	10 / 20	45	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
	C10 - C14	mg/kg	20 / 50	110	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
	C15 - C28	mg/kg	50 / 100	5800	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
	C29 - C36	mg/kg	50 / 100	8100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
PAH	Acenaphthene	mg/kg	0.1 / 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	0.1 / 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	0.1 / 0.5	-	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	1.8	<0.5	<0.5	<0.5	1.1	<0.5	0.8	<0.5	1	<0.5	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	1.1	<0.5	<0.5	<0.5	0.9	<0.5	0.9	<0.5	0.9	<0.5	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	2	<1	<1	<1	1.4	<1	1.4	<1	1.4	<1	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	0.5	<0.5	<0.5	<0.5	0.6	<0.5	0.5	<0.5	<0.5	<0.5	-
	Chrysene	mg/kg	0.1 / 0.5	-	1.3	<0.5	<0.5	<0.5	0.8	<0.5	0.7	<0.5	0.9	<0.5	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	3.5	<0.5	<0.5	<0.5	1.8	<0.5	1.6	<0.5	2.1	<0.5	-
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Naphthalene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Phenanthrene	mg/kg	0.1 / 0.5	-	3.2	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	1.1	<0.5	-
	Pyrene	mg/kg	0.1 / 0.5	-	3.7	<0.5	<0.5	<0.5	1.7	<0.5	1.7	<0.5	2	<0.5	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	19	<1	<1	<1	9.2	<1	7.6	<1	9.4	<1	-
	Benzo(a)pyrene TEQ	mg/kg	-	4	2.0	-	-	-	1.7	-	1.7	-	1.7	-	-
Asbestos	Asbestos	-	-	Detect	ND	-	ND	ND	-	ND	ND	-	-	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)
LocCode	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)
Sample_Depth_Range											
Sampled_Date-Time	25/07/2012	25/07/2012	25/07/2012	24/07/2012	24/07/2012	24/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012	24/07/2012
Matrix_Description											
SDG	89249-50	89249-50	89249-50	89247-48	89247-48	89247-48	92458-59	92458-59	92458-59	89247-48	89247-48

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	150	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	500	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	30000	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	1200	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	120	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	60000	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 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
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	160	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	40	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5800	<100	<100	<100	<100	150	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	8100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	45	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5800	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	8100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	<1	<1	<1	4.3	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.4	<0.5	0.7	0.9	0.7	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	3	<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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6	<0.5	0.6	0.9	0.7	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	<1	<1	<1	<1	<1	39	<1	1.3	2.3	1.4	<1
	Benzo(a)pyrene TEQ	mg/kg	-	4	-	-	-	-	-	4.2	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	ND	-	-	ND	-	ND	ND	ND	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 1
Soil Analytical Results - Comparison Against Health Investigation Levels for High Density Residential Lane Uses (HIL B and HSL B)

Haymarket Precinct, Sydney NSW

Field_ID	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
LocCode	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
Sample_Depth_Range						
Sampled_Date-Time	24/07/2012	24/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012
Matrix_Description						
SDG	89247-48	89247-48	92455-57	92455-57	92455-57	92455-57

Chem_Group	ChemName	Units	LOR	HIL						
Inorganics	Moisture	%	0.5		-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	500	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	150	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	500	-	-	-	-	-	-
	Copper	mg/kg	0.5	30000	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	1200	-	-	-	-	-	-
	Mercury	mg/kg	0.05	120	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	60000	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	55	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	160	<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
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	40	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	45	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	110	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5800	<100	<100	<100	570	<100	<100
	C34 - C40	mg/kg	100	8100	<100	<100	<100	540	<100	<100
	C6 - C9	mg/kg	10 / 20	45	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5800	<100	<100	<100	210	<100	<100
	C29 - C36	mg/kg	50 / 100	8100	<100	<100	<100	580	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	790	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	2.8	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	5.8	1.1	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	6	1.8	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	<1	9.1	2.8	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	3.7	1.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	4	1.1	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	12	1.6	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.8	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	2.7	1	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	8.9	0.6	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	11	1.8	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	400	<1	<1	<1	68	13	<1
	Benzo(a)pyrene TEQ	mg/kg	-	4	-	-	-	8.3	2.8	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5	BH13 4.0	BH14_2.5
LocCode	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5	BH13 4.0	BH14_2.5
Sample_Depth_Range																			2.5
Sampled_Date-Time	7/06/2011	7/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	1/06/2011	1/06/2011	1/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	9/06/2011	9/06/2011	9/06/2011	9/06/2011	17/06/2011
Matrix_Description																			
SDG	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100639-1	SE100639-1	SE100639-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100711-1

Chem_Group	ChemName	Units	LOR	HIL																		
Inorganics	Moisture	%	0.5		10	16	8.9	13	17	16	-	18	9.4	9.9	5.5	11	20	18	-	15	-	28	25
Metals	Arsenic	mg/kg	2 / 3	300	3	9	4	-	8	4	-	5	<3	5	<3	6	5	8	-	10	-	180	7
	Cadmium	mg/kg	0.3 / 0.4	90	0.3	<0.3	<0.3	-	<0.3	<0.3	-	0.3	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	-	0.8	-	<0.3	0.5
	Chromium	mg/kg	0.3 / 5	300	9	16	11	-	13	13	-	16	20	13	13	14	11	16	-	9.3	-	17	18
	Copper	mg/kg	0.5	17000	13	21	44	-	4.9	35	-	34	18	13	39	36	3.8	5.1	-	70	-	11	120
	Lead	mg/kg	1 / 5	600	15	25	260	-	19	150	-	74	21	34	31	240	24	13	-	140	-	49	170
	Mercury	mg/kg	0.05	80	<0.05	0.05	0.13	-	<0.05	0.22	-	0.12	0.09	0.1	0.11	0.19	<0.05	<0.05	-	0.45	-	0.21	1
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	7.7	3.6	7.7	-	1.2	4.7	-	4.6	5.1	9.3	13	7.8	1	1.7	-	6.2	-	11	14
	Zinc	mg/kg	0.5 / 5	30000	30	25	72	-	18	110	-	77	160	83	64	92	380	520	-	730	-	18	340
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<0.1	<0.1	<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 / 0.5	5300	<0.1	<0.1	<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	18000	<0.1	<0.1	<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 / 1	-	<1	<1	<2	<1	<1	<1	-	<0.2	<1	-	<1	<0.2	<1	-	-	<1	-	<0.2	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	<0.1	<0.5	-	<0.5	<0.1	<0.5	-	-	<0.5	-	<0.1	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	15000	<0.3	<0.3	<3	<0.3	<0.3	<0.3	-	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	-	<0.3	-	<0.3	<0.3
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	5300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	7400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	10 / 20	5100	-	-	-	-	-	-	-	<20	<20	-	-	-	-	-	-	-	-	-	<20
	C10 - C14	mg/kg	20 / 50	3800	-	-	-	-	-	-	-	28	23	-	-	-	-	-	-	-	-	-	<20
	C15 - C28	mg/kg	50 / 100	5300	-	-	-	-	-	-	-	1200	430	-	-	-	-	-	-	-	-	-	<50
	C29 - C36	mg/kg	50 / 100	7400	-	-	-	-	-	-	-	620	260	-	-	-	-	-	-	-	-	-	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	-	-	-	-	-	-	-	1848	713	-	-	-	-	-	-	-	-	-	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	7.3	-	<0.1	1	-	2.3	3.2	<0.1	0.6	0.4	<0.1	<0.1	-	<0.1	-	<0.1	0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	0.6	-	<0.1	<0.1	-	12	0.7	0.1	0.7	0.4	<0.1	<0.1	-	0.2	-	<0.1	<0.1
	Anthracene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	17	-	<0.1	2.3	-	23	6	0.2	1.3	0.5	<0.1	<0.1	-	0.2	-	<0.1	0.2
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	30	-	<0.1	3.2	-	55	8.5	0.8	3.9	2.3	<0.1	<0.1	-	0.9	-	<0.1	0.3
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.05	<0.05	20	-	<0.05	2.1	-	47	7	0.63	3.2	1.9	<0.05	<0.05	-	0.88	-	<0.05	0.29
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<0.1	<0.1	24	-	<0.1	2.8	-	64	3	0.8	3.7		<0.1	<0.1	-	1	-	<0.1	0.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	2.5	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	0.8	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	9.6	-	<0.1	0.9	-	25	4.6	0.3	1.7	0.9	<0.1	<0.1	-	0.5	-	<0.1	0.2
	Chrysene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	17	-	<0.1	1.7	-	40	6.1	0.4	2	1.2	<0.1	<0.1	-	0.6	-	<0.1	0.3
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	2.4	-	<0.1	0.2	-	2.7	0.8	<0.1	0.3	0.2	<0.1	<0.1	-	<0.1	-	<0.1	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	51	-	0.2	6	-	120	16	1.1	3.9	2.5	0.1	<0.1	-	1.1	-	<0.1	0.6
	Fluorene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	9	-	<0.1	1.2	-	8.9	3.6	<0.1	0.6	0.3	<0.1	<0.1	-	<0.1	-	<0.1	0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	8.8	-	<0.1	0.9	-	23	3.9	0.3	1.4	0.8	<0.1	<0.1	-	0.4	-	<0.1	0.1
	Naphthalene	mg/kg	0.1 / 0.5	1900	<0.1	<0.1	5	-	<0.1	0.7	-	2.6	2.6	<0.1	0.4	0.3	<0.1	<0.1	-	<0.1	-	<0.1	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	52	-	0.1	6.7	-	84	14	0.5	3.2	1.7	<0.1	<0.1	-	0.5	-	<0.1	0.8
	Pyrene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	51	-	0.1	5.6	-	120	18	1.2	6.3	3.8	0.2	<0.1	-	1.2	-	<0.1	0.8
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	<1.75	<1.75	280	-	<1.75	32	-	-	110	5.6	29	17	<1.75	<1.75	-	6.5	-	<1.75	4.2
	Benzo(a)pyrene TEQ	mg/kg	-	3	-	-	28.9	-	-	3.0	-	64.6	9.4	-	4.4	2.5	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	ND	ND	-	ND	ND	-	ND	-	ND	ND	-	ND	ND	-	ND	D	D	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	<LOR	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	<LOR	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	<LOR	-
	Other VOC	mg/kg	-	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	<LOR	-
Other SVOC	SVOC	mg/kg	-	LOR	-	<LOR	-	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m	BH4 1.0m	BH4 1.5m
LocCode	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m	BH4 1.0m	BH4 1.5m
Sample_Depth_Range	5.5	1-1.1	2.5-2.6															
Sampled_Date-Time	17/06/2011	21/06/2011	21/06/2011	16/06/2011	16/06/2011	16/06/2011	16/06/2011	3/06/2011	3/06/2011	3/06/2011	3/06/2011	2/06/2011	2/06/2011	2/06/2011	2/06/2011	6/06/2011	6/06/2011	6/06/2011
Matrix_Description																		
SDG	SE100711-1	SE100739-1	SE100739-1	SE100735-1	SE100735-1	SE100735-1	SE100735-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1

Chem_Group	ChemName	Units	LOR	HIL																		
Inorganics	Moisture	%	0.5		24	16	32	24	23	18	17	8.5	-	13	17	13	17	-	15	12	-	-
Metals	Arsenic	mg/kg	2 / 3	300	6	6	11	6	7	<3	16	4	-	23	28	4	4	-	<3	12	-	-
	Cadmium	mg/kg	0.3 / 0.4	90	0.5	<0.3	0.5	0.6	0.6	<0.3	0.5	<0.3	-	0.4	0.4	<0.3	<0.3	-	<0.3	<0.3	-	-
	Chromium	mg/kg	0.3 / 5	300	14	12	31	14	11	9.5	13	7.4	-	16	11	7.5	14	-	6	10	-	-
	Copper	mg/kg	0.5	17000	9.4	61	79	72	46	7.3	8.6	9.9	-	51	56	51	58	-	4.9	63	-	-
	Lead	mg/kg	1 / 5	600	19	110	300	240	140	15	13	15	-	93	98	15	27	-	6	47	-	-
	Mercury	mg/kg	0.05	80	0.06	0.74	2.2	4.9	0.44	0.07	<0.05	<0.05	-	0.55	0.37	<0.05	0.48	-	<0.05	0.15	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	6.8	3.7	14	6.7	2.7	3.5	2.5	11	-	11	7	6.6	22	-	0.9	5.6	-	-
	Zinc	mg/kg	0.5 / 5	30000	130	100	100	340	110	19	27	38	-	160	110	32	50	-	1.9	91	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<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	-	-
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<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	-	-
	Toluene	mg/kg	0.1	18000	<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 (m & p)	mg/kg	0.2 / 1	-	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<0.2	<0.2	<0.2	-	<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	-	<0.5	<0.1	<0.1	<0.1	-	<0.5	<0.5	-	-
	Xylene Total	mg/kg	0.3 / 1.5	15000	<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	<0.3	-	-
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	5300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	7400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	10 / 20	5100	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20	<20	-	<20	<20	-	-
	C10 - C14	mg/kg	20 / 50	3800	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20	<20	-	<20	<20	-	-
	C15 - C28	mg/kg	50 / 100	5300	<50	<50	<50	<50	<50	<50	<50	<50	-	140	130	<50	<50	-	<50	<50	-	-
	C29 - C36	mg/kg	50 / 100	7400	<50	<50	<50	<50	<50	<50	<50	<50	-	88	92	<50	<50	-	<50	<50	-	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<120	<120	<120	<120	<120	<120	<120	<120	-	238	232	<120	<120	-	<120	<120	-	-
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	<0.1	<0.5	<0.1	-	-	<0.1	-	-
	Acenaphthylene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.2	<0.5	<0.1	-	-	<0.1	-	-
	Anthracene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.4	<0.5	<0.1	-	-	0.1	-	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	-	0.2	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.9	<0.5	0.1	-	-	0.3	-	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	-	0.06	<0.05	<0.05	<0.05	-	-	<0.05	-	-	0.86	<0.5	0.1	-	-	0.35	-	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.3	<1	<0.1	-	-	0.2	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.5	<0.5	<0.1	-	-	0.2	-	-
	Chrysene	mg/kg	0.1 / 0.5	-	-	0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.7	<0.5	<0.1	-	-	0.3	-	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.1	<0.5	<0.1	-	-	<0.1	-	-
	Fluoranthene	mg/kg	0.1 / 0.5	-	-	0.2	<0.1	0.2	<0.1	-	-	<0.1	-	-	1.7	<0.5	0.2	-	-	0.7	-	-
	Fluorene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.2	<0.5	<0.1	-	-	<0.1	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.4	<0.5	<0.1	-	-	0.2	-	-
	Naphthalene	mg/kg	0.1 / 0.5	1900	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	<0.1 - 0.1	<0.1	<0.1	-	-	<0.1	-	-
	Phenanthrene	mg/kg	0.1 / 0.5	-	-	0.1	<0.1	0.1	<0.1	-	-	<0.1	-	-	1.1	<0.5	<0.1	-	-	0.3	-	-
	Pyrene	mg/kg	0.1 / 0.5	-	-	0.3	<0.1	0.2	<0.1	-	-	<0.1	-	-	1.6	<0.5	0.2	-	-	0.6	-	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	-	<1.75	<1.75	<1.75	<1.75	-	-	<1.75	-	-	10	-	<1.75	-	-	3.8	-	-
	Benzo(a)pyrene TEQ	mg/kg	-	3	-	-	-	-	-	-	-	-	-	-	1.1	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	ND	ND	ND	ND	-	-	ND	ND	-	-	-	ND	ND	-	-	ND	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6	EB2/2.0-2.1	EB3/1.0-1.1
LocCode	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6	EB2/2.0-2.1	EB3/1.0-1.1
Sample_Depth_Range																		
Sampled_Date-Time	6/06/2011	6/06/2011	14/06/2011	14/06/2011	14/06/2011	9/06/2011	9/06/2011	6/06/2011	9/06/2011	14/06/2011	15/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011
Matrix_Description																		
SDG	SE100639-1	SE100639-1	SE100735-1	SE100735-1	SE100735-1	SE100700-1	SE100700-1	SE100639-1	SE100700-1	SE100735-1	SE100735-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1

Chem_Group	ChemName	Units	LOR	HIL																		
Inorganics	Moisture	%	0.5		15	14	15	18	23	21	21	-	18	8.1	9	-	20	17	18	13	17	-
Metals	Arsenic	mg/kg	2 / 3	300	14	<3	4	-	6	3	8	-	25	5	4	-	13	6	8	9	7	-
	Cadmium	mg/kg	0.3 / 0.4	90	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	0.6	0.8	0.3	-	0.5	<0.3	<0.3	0.3	<0.3	-
	Chromium	mg/kg	0.3 / 5	300	12	12	9.8	-	11	13	6.4	-	13	12	12	-	29	15	13	9.7	13	-
	Copper	mg/kg	0.5	17000	42	1.2	26	-	14	16	9.3	-	1.2	39	30	-	98	30	15	320	18	-
	Lead	mg/kg	1 / 5	600	110	7	57	-	37	12	15	-	12	130	66	-	540	75	31	190	32	-
	Mercury	mg/kg	0.05	80	0.64	<0.05	0.24	-	0.23	<0.05	0.41	-	<0.05	0.27	0.12	-	1.2	0.22	0.05	0.64	1	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	10	1.2	13	-	5.7	13	1.2	-	1.3	7.2	19	-	26	6.5	1.9	13	3.5	-
	Zinc	mg/kg	0.5 / 5	30000	110	2.5	96	-	25	22	12	-	7.9	190	93	-	460	89	22	270	32	-
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<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	-
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<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	-
	Toluene	mg/kg	0.1	18000	<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 (m & p)	mg/kg	0.2 / 1	-	<0.2	<1	<1	<0.2	<1	-	<0.2	-	<1	<1	<1	-	<0.2	<0.2	<1	<1	<1	-
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.1	<0.5	<0.5	<0.1	<0.5	-	<0.1	-	<0.5	<0.5	<0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	-
	Xylene Total	mg/kg	0.3 / 1.5	15000	<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	<0.3	-
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	5300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	7400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	10 / 20	5100	<20	<20	<20	-	<20	-	-	-	-	<20	<20	-	<20	<20	<20	<20	<20	-
	C10 - C14	mg/kg	20 / 50	3800	<20	<20	<20	-	<20	-	-	-	-	<20	<20	-	130	<20	<20	<20	<20	-
	C15 - C28	mg/kg	50 / 100	5300	380	<50	<50	-	<50	-	-	-	-	89	54	-	4300	290	310	170	<50	-
	C29 - C36	mg/kg	50 / 100	7400	110	<50	<50	-	<50	-	-	-	-	76	53	-	1900	150	140	130	<50	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	500	<120	<120	-	<120	-	-	-	-	175	117	-	6330	450	460	310	<120	-
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	35	1.6	2.4	0.2	<0.1	-
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.5	0.2	-	1.1	<0.1	<0.1	0.4	<0.1	-
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.7	0.2	-	69	3.2	<0.1	1	0.3	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	1.6	0.8	-	160	8.7	<0.1	4	0.4	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	-	0.24	-	<0.05	<0.05	<0.05	-	<0.05	1.5	0.92	-	74	4.3	<0.05	3.2	0.35	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	-	0.4	-	<0.1	<0.1	<0.1	-	<0.1	0.9	0.5	-	-	-	<0.1	1.2	0.1	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	110	6.6	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	34	1.3	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	1	0.7	-	38	2.3	<0.1	1.9	0.2	-
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	1.4	0.7	-	98	4.5	<0.1	1.9	0.3	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.1	<0.1	-	12	0.8	<0.1	0.5	<0.1	-
	Fluoranthene	mg/kg	0.1 / 0.5	-	0.6	-	0.5	-	<0.1	<0.1	<0.1	-	<0.1	2.9	1.3	-	220	13	<0.1	5.2	0.8	-
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.2	<0.1	-	50	2.2	<0.1	0.4	0.1	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.8	0.5	-	32	2.2	<0.1	1.9	0.2	-
	Naphthalene	mg/kg	0.1 / 0.5	1900	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	0.1	<0.1	-	9.8	0.6	0.6	0.3	<0.1	-
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	2.1	0.5	-	370	15	<0.1	3.2	0.6	-
	Pyrene	mg/kg	0.1 / 0.5	-	1.2	-	0.5	-	<0.1	<0.1	<0.1	-	<0.1	2.8	1.4	-	220	12	<0.1	5.4	0.8	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	-	-	2.2	-	<1.75	<1.75	<1.75	-	<1.75	16	7.1	-	1400	70	3	35	4.7	-
	Benzo(a)pyrene TEQ	mg/kg	-	3	-	-	-	-	-	-	-	-	-	2.0	-	-	110.0	6.4	-	4.4	-	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-	-	-
	Other VOC	mg/kg	-	LOR	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9	BH29_0.4-0.5
LocCode	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9	BH29_0.4-0.5
Sample_Depth_Range															
Sampled_Date-Time	10/06/2011	10/06/2011	10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	18/04/2012	18/04/2012	18/04/2012	24/04/2012	27/04/2012	27/04/2012	27/04/2012	17/04/2012
Matrix_Description															
SDG	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE107686-1	SE107686-1	SE107686-1	SE107335-1	SE107335-1	SE107335-1	SE107686-1	SE107819-1	SE107819-1	SE107819-1	SE107335-1

Chem_Group	ChemName	Units	LOR	HIL															
Inorganics	Moisture	%	0.5		10	15	9.1	18	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	13	6	5	-	3	5	8	4	12	12	4	6	5	<3	<3
	Cadmium	mg/kg	0.3 / 0.4	90	<0.3	<0.3	<0.3	-	0.3	0.3	<0.3	<0.3	0.4	0.3	0.4	0.3	<0.3	<0.3	0.3
	Chromium	mg/kg	0.3 / 5	300	18	9.5	15	-	5.1	7.9	5.6	7.3	9.9	21	6.9	6.9	17	16	22
	Copper	mg/kg	0.5	17000	110	7.3	12	-	51	580	5.8	23	41	63	98	2.3	13	8.6	80
	Lead	mg/kg	1 / 5	600	310	23	31	-	220	92	14	13	93	91	96	9	30	15	24
	Mercury	mg/kg	0.05	80	0.68	<0.05	0.07	-	0.89	1.3	0.07	0.07	0.26	0.18	0.13	<0.05	0.08	<0.05	0.3
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	11	1.3	4.6	-	12	7.3	1.6	5	16	4.8	11	<0.5	12	3.7	38
	Zinc	mg/kg	0.5 / 5	30000	190	12	17	-	310	110	6	33	100	95	210	21	27	3.7	71
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<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	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<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	<0.1
	Toluene	mg/kg	0.1	18000	<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	<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	<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	<0.1	<0.1	<0.1	<0.1
	Xylene Total	mg/kg	0.3 / 1.5	15000	<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	<0.3	<0.3
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	5300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	7400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	10 / 20	5100	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	3800	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	30	<20	<20	<20	20
	C15 - C28	mg/kg	50 / 100	5300	320	<50	<50	<50	<50	<50	<50	<50	190	<50	450	<50	<50	<50	2500
	C29 - C36	mg/kg	50 / 100	7400	190	<50	<50	<50	<50	<50	<50	<50	55	<50	420	<50	<50	<50	1700
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	520	<120	<120	<120	<120	<120	<120	<120	255	<120	900	<120	<120	<120	4220
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	3	<0.1	<0.1	<0.1	0.2
	Acenaphthylene	mg/kg	0.1 / 0.5	-	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.1	1.4	<0.1	<0.1	<0.1	0.1
	Anthracene	mg/kg	0.1 / 0.5	-	2.3	<0.1	0.2	<0.1	0.1	<0.1	<0.1	<0.1	1.2	0.3	3.8	<0.1	<0.1	<0.1	0.7
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	6.4	0.3	0.4	<0.1	0.3	0.2	<0.1	<0.1	2.2	0.6	4.8	<0.1	<0.1	<0.1	0.8
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	3.9	0.15	0.25	<0.05	0.3	0.1	<0.1	<0.1	1.6	0.5	4.4	<0.1	<0.1	<0.1	0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	1.5	<0.1	0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	0.4	0.2	<0.1	<0.1	1.9	0.6	5.9	<0.1	<0.1	<0.1	0.7
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	0.2	<0.1	<0.1	<0.1	0.7	0.3	2	<0.1	<0.1	<0.1	0.4
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	2.1	<0.1	0.2	<0.1	0.2	0.1	<0.1	<0.1	0.8	0.3	3.2	<0.1	<0.1	<0.1	0.5
	Chrysene	mg/kg	0.1 / 0.5	-	3.2	0.1	0.2	<0.1	0.3	0.2	<0.1	<0.1	1.4	0.4	3.6	<0.1	<0.1	<0.1	0.8
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	-	9.1	0.4	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.9	1	15	<0.1	<0.1	<0.1	1.5
	Fluorene	mg/kg	0.1 / 0.5	-	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.1	<1	<0.1	<0.1	<0.1	0.3
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	2.2	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.7	0.2	2.3	<0.1	<0.1	<0.1	0.3
	Naphthalene	mg/kg	0.1 / 0.5	1900	0.7	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.2	<0.1	1.2	<0.1	<0.1	<0.1	0.1
	Phenanthrene	mg/kg	0.1 / 0.5	-	7.9	0.3	0.6	<0.1	0.5	0.2	<0.1	<0.1	3.1	0.8	8.2	<0.1	<0.1	<0.1	3.2
	Pyrene	mg/kg	0.1 / 0.5	-	8.8	0.3	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.7	1	14	<0.1	<0.1	<0.1	1.3
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	58	<1.75	3.8	<1.75	3.3	1.4	<0.8	<0.8	23	6	73	<0.8	<0.8	<0.8	11
	Benzo(a)pyrene TEQ	mg/kg	-	3	5.6	-	-	-	-	-	-	-	-	-	6.4	-	-	-	0.8
Asbestos	Asbestos	-	-	Detect	ND	ND	ND	-	ND	-	-	ND	-	-	ND	ND	-	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)
LocCode	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)
Sample_Depth_Range													
Sampled_Date-Time	17/04/2012	17/04/2012	27/04/2012	27/04/2012	27/04/2012	27/04/2012	24/04/2012	24/04/2012	24/04/2012	24/04/2012	12/12/2012	12/12/2012	12/12/2012
Matrix_Description													
SDG	SE107335-1	SE107335-1	SE107819-1	SE107819-1	SE107819-1	SE107819-1	SE107686-1	SE107686-1	SE107686-1	SE107686-1	103789-90	103789-90	103789-90

Chem_Group	ChemName	Units	LOR	HIL												
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	4	3	<3	4	<3	9	<3	-	<3	16	4.6	<2	-
	Cadmium	mg/kg	0.3 / 0.4	90	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.4	<0.4	-
	Chromium	mg/kg	0.3 / 5	300	8.9	4.7	11	11	9.7	260	4.9	-	7.6	12	5.6	7	-
	Copper	mg/kg	0.5	17000	83	5.5	35	8.7	4.7	33	5.4	-	8.5	3.4	17	23	-
	Lead	mg/kg	1 / 5	600	230	6	51	18	27	19	11	-	16	14	58	44	-
	Mercury	mg/kg	0.05	80	2.1	<0.05	0.28	0.08	0.08	<0.05	<0.05	-	<0.05	<0.05	0.06	0.07	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	9.6	<0.5	31	3.2	2.1	25	3.6	-	6.2	4.1	11	7.3	-
	Zinc	mg/kg	0.5 / 5	30000	310	3.5	89	23	32	9.4	22	-	33	9.9	250	280	-
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.4	<0.1	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	18000	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	1.1	<0.2	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.3	<0.1	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	15000	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	1.4	<0.3	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	-	-	-	-	-	-	-	-	-	-	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	-	-	-	-	-	-	-	-	-	-	<50	<50	<50
	C16 - C34	mg/kg	100	5300	-	-	-	-	-	-	-	-	-	-	<100	<100	<100
	C34 - C40	mg/kg	100	7400	-	-	-	-	-	-	-	-	-	-	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	5100	<20	<20	<20	<20	<20	<20	<20	-	21	<20	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	3800	<20	<20	<20	<20	<20	<20	<20	-	62	<20	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5300	840	<50	<50	<50	<50	<50	<50	-	2400	<50	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	7400	380	<50	<50	<50	<50	<50	<50	-	1100	<50	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	1230	<120	<120	<120	<120	<120	<120	-	3562	<120	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	2.5	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	-	13	<0.1	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	4.7	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	-	<1	<0.1	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	13	0.2	0.7	<0.1	0.3	<0.1	<0.1	-	23	0.1	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	26	0.2	1.2	<0.1	0.5	<0.1	<0.1	-	50	0.3	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	16	0.1	1	<0.1	0.6	<0.1	<0.1	-	30	0.2	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	21	0.2	1.1	<0.1	<0.1	<0.1	<0.1	-	28	0.2	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	5.6	0.1	0.6	<0.1	0.4	<0.1	<0.1	-	10	0.1	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	9.3	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	-	15	0.1	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	14	0.2	0.9	<0.1	0.4	<0.1	<0.1	-	42	0.3	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	2.5	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	-	3.1	<0.1	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	53	0.5	2.6	<0.1	1.2	<0.1	<0.1	-	79	0.4	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	5.5	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	-	12	<0.1	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	8.1	<0.1	0.5	<0.1	0.4	<0.1	<0.1	-	11	<0.1	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1900	2.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<1	<0.1	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	69	0.6	2	<0.1	0.8	<0.1	<0.1	-	120	0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	51	0.5	2.4	<0.1	1.2	<0.1	<0.1	-	110	0.6	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	300	2.3	14	<0.8	<0.8	<0.8	<0.8	-	550	2.7	<1	<1	<1
	Benzo(a)pyrene TEQ	mg/kg	-	3	22.7	-	1.3			-	-	-	40.8	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	-	-	-	ND	ND	-	-	-	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_(0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)
LocCode	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)
Sample_Depth_Range											
Sampled_Date-Time	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
Matrix_Description											
SDG	103789-90	103789-90	103789-90	103789-90	103787-103788		103787-103788		103787-103788	103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	-	2.8	4.1	-	<2	-	4.8	-	3.8	16	34
	Cadmium	mg/kg	0.3 / 0.4	90	-	<0.4	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	300	-	6.1	<5	-	<5	-	<5	-	21	24	35
	Copper	mg/kg	0.5	17000	-	<5	5	-	75	-	17	-	24	<5	96
	Lead	mg/kg	1 / 5	600	-	13	7.6	-	5.6	-	40	-	190	63	530
	Mercury	mg/kg	0.05	80	-	<0.05	<0.05	-	<0.05	-	0.2	-	1.8	0.51	4.9
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	<5	<5	-	210	-	6.3	-	6.7	<5	35
	Zinc	mg/kg	0.5 / 5	30000	-	78	140	-	90	-	26	-	70	30	220
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	18000	<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	<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	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	15000	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	-	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	<20	<20	<20	<20	<20	-	<20	-	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	<50	<50	<50	<50	<50	-	<50	-	<50	<50	<50
	C16 - C34	mg/kg	100	5300	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
	C34 - C40	mg/kg	100	7400	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	5100	<10	<10	<10	<10	<10	-	<10	-	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	3800	<50	<50	<50	<50	<50	-	<50	-	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5300	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	7400	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 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	0.1 / 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	0.05 / 0.1 / 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	0.1 / 1	-	<1	<1	<1	<1	<1	-	<1	-	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1900	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	<1	<1	<1	<1	<1	-	<1	-	<1	<1	<1
	Benzo(a)pyrene TEQ	mg/kg	-	3	-	-	-	-	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	-	-	-	ND	D	ND	ND	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-		-		-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-		-		-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-		-		-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-		-		-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-		-		-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	BH120_(0.03-0.13m)_A	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)
LocCode	BH120_(0.03-0.13m)_A	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)
Sample_Depth_Range											
Sampled_Date-Time	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012
Matrix_Description											
SDG	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99

Chem_Group	ChemName	Units	LOR	HIL										
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	-	4	6.1	-	-	-	-	-	8.7	-	14
	Cadmium	mg/kg	0.3 / 0.4	90	-	<0.4	<0.4	-	-	-	-	-	<0.4	-	<0.4
	Chromium	mg/kg	0.3 / 5	300	-	110	6.7	-	-	-	-	-	42	-	11
	Copper	mg/kg	0.5	17000	-	43	51	-	-	-	-	-	130	-	93
	Lead	mg/kg	1 / 5	600	-	6.2	250	-	-	-	-	-	79	-	160
	Mercury	mg/kg	0.05	80	-	<0.05	0.57	-	-	-	-	-	0.41	-	0.59
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	120	<5	-	-	-	-	-	51	-	14
	Zinc	mg/kg	0.5 / 5	30000	-	79	190	-	-	-	-	-	120	-	150
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	18000	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	15000	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5300	<100	<100	<100	<100	410	170	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	7400	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	5100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	3800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5300	<100	<100	<100	160	390	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	7400	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	160	390	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.7	4.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	8.9	<0.5	<0.5	<0.5	1.1	1.2	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	1.2	5.6	12	<0.5	<0.5	<0.5	<0.5	<0.5	0.7
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	1.4	3.9	8.7	<0.5	<0.5	0.7	0.8	<0.5	0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	2.2	7.1	15	<1	<1	1.4	<1	<1	1.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	1	2	4.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	1.2	4.8	9.6	<0.5	<0.5	0.8	<0.5	<0.5	0.6
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	1.9	12	27	<0.5	<0.5	2	2.3	<0.5	0.9
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.7	3.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	0.8	1.8	4.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1900	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	1.1	9.1	31	<0.5	<0.5	1.2	1.2	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	2.1	10	23	<0.5	<0.5	1.7	2	<0.5	1
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	<1	<1	13	67	140	<1	<1	8.9	7.5	<1	4.8
	Benzo(a)pyrene TEQ	mg/kg	-	3	-	-	2.3	5.9	12.5			1.5	1.5	-	-
Asbestos	Asbestos	-	-	Detect	ND	-	ND	-	-	-	-	-	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	<LOR	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	<LOR	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	<LOR	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	<LOR	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	<LOR	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1M)	BH122A_(1.5-1.6m)_A	BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)
LocCode	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1m)	BH122A_(1.5-1.6m)_A	BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)
Sample_Depth_Range											
Sampled_Date-Time	18/12/2012	18/12/2012	18/12/2012	18/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
Matrix_Description											
SDG	103797-99	103797-99	103797-99	103797-99	103789-90	103789-90	103791-93		103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	-	-	14	-	2.1	-	2.8	-	5.2	4.5	5
	Cadmium	mg/kg	0.3 / 0.4	90	-	-	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	300	-	-	27	-	11	-	7.5	-	11	11	11
	Copper	mg/kg	0.5	17000	-	-	350	-	20	-	29	-	26	26	48
	Lead	mg/kg	1 / 5	600	-	-	2700	-	35	-	47	-	56	52	140
	Mercury	mg/kg	0.05	80	-	-	3.4	-	0.06	-	0.06	-	0.12	0.16	0.35
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	-	62	-	8	-	<5	-	<5	<5	<5
	Zinc	mg/kg	0.5 / 5	30000	-	-	310	-	60	-	55	-	63	56	81
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	18000	<0.5	<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	<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	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	15000	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	<50	<50	<50	<50	<50	<50	<50	-	<50	<50	<50
	C16 - C34	mg/kg	100	5300	1800	680	490	<100	<100	<100	<100	-	<100	230	<100
	C34 - C40	mg/kg	100	7400	320	<100	130	<100	<100	<100	<100	-	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	5100	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	3800	<50	<50	<50	<50	<50	<50	<50	-	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5300	1300	520	350	<100	<100	<100	<100	-	<100	180	<100
	C29 - C36	mg/kg	50 / 100	7400	810	270	270	<100	<100	<100	<100	-	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	2135	790	620	<100	<100	<100	<100	-	<100	180	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<5	<5	1.4	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	7.9	14	3.6	<0.5	<0.5	<0.5	<0.5	-	<0.5	0.7	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	31	18	10	<0.5	<0.5	1.3	<0.5	-	1.3	2.2	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	22	13	7.8	<0.5	<0.5	1.3	<0.5	-	1.2	2.1	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	39	21	13	<1	<1	2	<1	-	2.1	3.5	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	11	6.6	3.8	<0.5	<0.5	0.7	<0.5	-	0.7	1.1	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	23	14	8	<0.5	<0.5	1.1	<0.5	-	1.1	2	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	55	30	18	0.8	0.9	2.4	<0.5	-	2.4	4.2	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<5	<5	1.2	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	9.8	<5	3.5	<0.5	<0.5	0.6	<0.5	-	0.6	1	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1900	1	0.6	0.8	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	28	14	14	<0.5	0.6	1.4	<0.5	-	1.4	2.7	0.8
	Pyrene	mg/kg	0.1 / 0.5	-	53	31	17	0.8	0.9	2.3	<0.5	-	2.2	4	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	280	160	100	1.6	2.4	13	<1	-	13	24	<1
	Benzo(a)pyrene TEQ	mg/kg	-	3	35.3	22.6	11.1	-	-	-	-	-	2.1	3.3	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	-	ND	-	ND	ND	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-		-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-		-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-		-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-		-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-		-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)
LocCode	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)
Sample_Depth_Range											
Sampled_Date-Time	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
Matrix_Description											
SDG	103791-93	103791-93	103789-90	103789-90	103789-90	103789-90	103791-93	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	<2	-	-	-	-	-	7.6	6.1	6.4	9.3	6.9
	Cadmium	mg/kg	0.3 / 0.4	90	<0.4	-	-	-	-	-	0.4	<0.4	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	300	7.6	-	-	-	-	-	10	<5	<5	6.7	12
	Copper	mg/kg	0.5	17000	6.9	-	-	-	-	-	50	26	32	46	9.4
	Lead	mg/kg	1 / 5	600	9.3	-	-	-	-	-	69	36	47	40	<5
	Mercury	mg/kg	0.05	80	0.11	-	-	-	-	-	0.12	0.1	0.11	0.13	0.07
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	<5	-	-	-	-	-	11	<5	5.3	<5	<5
	Zinc	mg/kg	0.5 / 5	30000	<5	-	-	-	-	-	110	51	69	41	13
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	18000	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	15000	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	<50	<50	<50	<50	60	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5300	<100	<100	<100	<100	840	390	<100	180	180	<100	<100
	C34 - C40	mg/kg	100	7400	<100	<100	<100	<100	100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	5100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	3800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5300	<100	<100	<100	<100	810	380	<100	140	110	<100	<100
	C29 - C36	mg/kg	50 / 100	7400	<100	<100	<100	<100	220	100	<100	<100	100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	1055	505	<100	140	210	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	2.6	0.8	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	5.3	4.8	<0.5	0.8	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	12	6	<0.5	1.3	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.6	34	13	<0.5	2.8	1.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	0.7	30	14	<0.5	2.9	1.7	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	<1	1.2	46	20	<1	4.6	2.7	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	13	6.7	<0.5	1.8	1.1	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.6	27	8.8	<0.5	2.7	1.4	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	4	1.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	1	58	28	0.9	5.7	2.5	0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	6.2	3.9	<0.5	0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	12	5.6	<0.5	1.6	0.9	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1900	<0.5	<0.5	<0.5	<0.5	3	2.7	<0.5	0.6	2.1	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	44	19	0.8	4.8	1.1	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	1.1	55	25	0.9	5.5	2.6	0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	<1	<1	<1	5.2	350	160	2.6	36	18	1	<1
	Benzo(a)pyrene TEQ	mg/kg	-	3	-	-	-	1.4	43.6	19.6	-	4.3	2.7	-	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	ND	-	-	ND	ND	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	BH123A_(4.0-4.1m)	BH124_(0.01-0.11M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)
LocCode	BH123A_(4.0-4.1m)	BH124_(0.01-1.1M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)
Sample_Depth_Range											
Sampled_Date-Time	13/12/2012	13/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
Matrix_Description											
SDG	103791-93		103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	2.5	-	13	13	6.8	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	90	<0.4	-	1	0.6	0.4	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	300	<5	-	12	11	8.5	-	-	-	-	-	-
	Copper	mg/kg	0.5	17000	<5	-	92	140	59	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	600	<5	-	180	120	64	-	-	-	-	-	-
	Mercury	mg/kg	0.05	80	<0.05	-	0.22	0.26	0.23	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	<5	-	16	12	20	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	30000	<5	-	240	170	94	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	18000	<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	<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	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	15000	<1.5	-	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	<50	-	<50	<50	<50	300	1600	1300	<50	1600	1300
	C16 - C34	mg/kg	100	5300	<100	-	<100	<100	<100	1100	2700	1900	140	2200	2000
	C34 - C40	mg/kg	100	7400	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	5100	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	3800	<50	-	<50	<50	<50	110	620	630	<50	630	660
	C15 - C28	mg/kg	50 / 100	5300	<100	-	<100	<100	<100	1300	3800	2700	<100	3200	2600
	C29 - C36	mg/kg	50 / 100	7400	<100	-	<100	<100	<100	220	350	220	160	320	310
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	-	<100	<100	<100	1630	4770	3550	160	4150	3600
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 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	0.1 / 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	0.05 / 0.1 / 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	0.1 / 1	-	<1	-	<1	<1	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	-	1.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	0.9	1.4	<0.5	1.2	1.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1900	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	-	1	<0.5	<0.5	-	1.3	<0.5	<0.5	1.9	1.6
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	-	1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	<1	-	4.1	<1	-	-	-	-	-	-	-
	Benzo(a)pyrene TEQ	mg/kg	-	3	-	-	-	-	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	ND	ND	-	-	-	-	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR	<LOR
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	0.7	0.8
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	1.3	0.9
	Other VOC	mg/kg	-	LOR	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR	<LOR
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR	<LOR

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Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	BH125_(0.23-0.33m)_A	BH125_(0.23-0.33m)	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	BH126_(0.5-0.6m)_A
LocCode	BH125_(0.23-0.33m)_A	BH125_(0.23-0.33m)	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	BH126_(0.5-0.6m)_A
Sample_Depth_Range											
Sampled_Date-Time	11/12/2012	11/12/2012	11/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	12/12/2012	12/12/2012
Matrix_Description											
SDG	103786	103786	103786	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	2.9	3.6	5.1	-	<2	16	-	-	-	<2	3.7
	Cadmium	mg/kg	0.3 / 0.4	90	<0.4	<0.4	<0.4	-	<0.4	<0.4	-	-	-	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	300	<5	<5	18	-	<5	15	-	-	-	<5	<5
	Copper	mg/kg	0.5	17000	26	39	43	-	5.8	19	-	-	-	15	20
	Lead	mg/kg	1 / 5	600	99	84	110	-	13	57	-	-	-	33	68
	Mercury	mg/kg	0.05	80	0.21	0.24	0.34	-	<0.05	0.62	-	-	-	0.3	0.36
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	<5	<5	5.3	-	<5	9.1	-	-	-	<5	<5
	Zinc	mg/kg	0.5 / 5	30000	93	74	77	-	12	220	-	-	-	29	95
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	18000	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	15000	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5300	1200	1000	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	7400	130	100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	5100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	3800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5300	940	740	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	7400	530	470	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	1500	1235	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	2.1	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	18	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	18	13	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	27	31	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	20	25	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	33	39	1.4	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	7.8	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	18	24	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	1.8	3.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	66	65	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	15	4.5	<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	0.1 / 0.5	-	7.4	9.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1900	18	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	87	65	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	54	64	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	390	370	9.7	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(a)pyrene TEQ	mg/kg	-	3	28.8	36.4	1.5	-	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	-	-	-	ND	ND	-	-	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-

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Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M)_A
LocCode	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M)_A
Sample_Depth_Range											
Sampled_Date-Time	12/12/2012	12/12/2012	12/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	17/12/2012
Matrix_Description											
SDG	103787-103788	103787-103788	103787-103788	103784-103785	103784-103785	103786	103786	103786	103786	103786	103794-103796

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	<2	3.5	25	<2	<2	3.6	5.2	4.4	<2	-	3.4
	Cadmium	mg/kg	0.3 / 0.4	90	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	-	<0.4
	Chromium	mg/kg	0.3 / 5	300	<5	7.4	<5	<5	6.3	9.3	7.6	5.5	<5	-	12
	Copper	mg/kg	0.5	17000	41	560	<5	64	55	28	43	42	<5	-	27
	Lead	mg/kg	1 / 5	600	95	710	9.7	11	6.8	85	190	160	<5	-	89
	Mercury	mg/kg	0.05	80	0.47	5.7	<0.05	<0.05	<0.05	0.17	0.55	0.55	<0.05	-	0.18
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	5.7	7.4	<5	130	120	15	14	15	<5	-	5.6
	Zinc	mg/kg	0.5 / 5	30000	100	140	<5	71	67	93	140	140	<5	-	78
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	18000	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	15000	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5300	<100	110	240	<100	<100	550	780	550	110	<100	<100
	C34 - C40	mg/kg	100	7400	<100	<100	<100	<100	<100	760	400	390	170	<100	<100
	C6 - C9	mg/kg	10 / 20	5100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	3800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5300	<100	<100	250	<100	<100	250	350	190	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	7400	<100	<100	<100	<100	<100	550	860	730	260	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	250	<100	<100	800	1235	945	260	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	3.7	2.3	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	0.7	1.3	<0.5	<0.5	<0.5	0.5	6.7	3.6	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	1.3	4.1	<0.5	<0.5	<0.5	0.8	15	7.4	<0.5	<0.5	0.6
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	0.9	3.1	<0.5	<0.5	<0.5	0.8	12	5.9	<0.5	<0.5	0.7
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	1.6	5.9	<1	<1	<1	1.3	20	9.7	<1	<1	1.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	4.9	2.6	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	1.1	3.1	<0.5	<0.5	<0.5	0.7	11	5.1	<0.5	<0.5	0.6
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	2.8	7.3	<0.5	<0.5	<0.5	1.9	31	16	<0.5	0.5	1.2
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1	1.8	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	4.4	2.2	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1900	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	2.2	3.7	<0.5	<0.5	<0.5	1.2	21	13	<0.5	<0.5	0.7
	Pyrene	mg/kg	0.1 / 0.5	-	2.5	5.9	<0.5	<0.5	<0.5	1.9	28	14	<0.5	<0.5	1.2
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	13	38	<1	<1	<1	9.1	160	84	<1	<1	6.1
	Benzo(a)pyrene TEQ	mg/kg	-	3	1.8	4.8	-	-	-	-	16.6	8.4	-	-	-
Asbestos	Asbestos	-	-	Detect	ND	-	-	-	ND	ND	-	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-
	Other VOC	mg/kg	-	LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)
LocCode	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)
Sample_Depth_Range											
Sampled_Date-Time	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	10/12/2012	10/12/2012	11/12/2012	11/12/2012
Matrix_Description											
SDG	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103784-103785	103784-103785	103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR	HIL										
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	5.2	-	7.4	4.5	3.5	-	-	4.1	4.9	6.9	9.6
	Cadmium	mg/kg	0.3 / 0.4	90	<0.4	-	<0.4	<0.4	<0.4	-	-	<0.4	0.5	0.5	0.6
	Chromium	mg/kg	0.3 / 5	300	12	-	21	23	11	-	-	<5	16	7.1	6.9
	Copper	mg/kg	0.5	17000	27	-	36	24	13	-	-	29	49	130	150
	Lead	mg/kg	1 / 5	600	96	-	430	200	93	-	-	52	150	410	370
	Mercury	mg/kg	0.05	80	0.27	-	1.2	1.5	0.54	-	-	0.43	0.68	4.5	4.3
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	5.8	-	12	8.2	<5	-	-	6.6	14	12	14
	Zinc	mg/kg	0.5 / 5	30000	94	-	410	220	130	-	-	140	430	1700	1700
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	18000	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	15000	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5300	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	7400	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	5100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	3800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5300	110	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	7400	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	110	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 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	0.1 / 0.5	-	2.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	2.8	<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	0.1 / 0.5	-	4.4	1.2	0.7	1.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	2.9	1.2	0.9	1.4	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	5	2.1	1.6	2.3	<1	<1	<1	<1	1.1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	1.6	0.9	0.7	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	3	1.2	0.8	1.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	8.8	2	1.2	2	<0.5	<0.5	<0.5	<0.5	1	1	1
	Fluorene	mg/kg	0.1 / 0.5	-	1.7	<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	0.1 / 0.5	-	1.6	0.7	0.6	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1900	<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	0.1 / 0.5	-	11	1.2	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	7.4	2	1.3	2	<0.5	<0.5	<0.5	<0.5	1	0.9	0.9
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	53	13	7.8	13	<1	<1	<1	<1	4.9	1.9	1.9
	Benzo(a)pyrene TEQ	mg/kg	-	3	4.5	2.1	1.7	2.4	-	-	-	-	1.3	-	-
Asbestos	Asbestos	-	-	Detect	ND	ND	-	-	-	-	-	-	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	<LOR	-	1.8	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	<LOR	-	<LOR	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	<LOR	-	<LOR	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	<LOR	-	<LOR	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	<LOR	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)
LocCode	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)
Sample_Depth_Range											
Sampled_Date-Time	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	25/07/2012	26/07/2012
Matrix_Description											
SDG		103787-103788	103787-103788	103787-103788	103787-103788	92455-57	92455-57	92455-57	92455-57	89249-50	92458-59

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	-	9.3	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	90	-	1.2	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	300	-	10	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	17000	-	110	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	600	-	330	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	80	-	3	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	11	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	30000	-	2200	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	120	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	18000	-	<0.5	<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	<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	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	15000	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	58
	C16 - C34	mg/kg	100	5300	-	<100	<100	<100	<100	580	940	<100	<100	<100	710
	C34 - C40	mg/kg	100	7400	-	<100	<100	<100	<100	110	230	<100	<100	<100	150
	C6 - C9	mg/kg	10 / 20	5100	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	3800	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5300	-	<100	<100	<100	<100	470	690	<100	<100	<100	540
	C29 - C36	mg/kg	50 / 100	7400	-	<100	<100	<100	<100	200	420	<100	<100	<100	280
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	-	<100	<100	<100	<100	670	1135	<100	<100	<100	820
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	5	<0.5	<0.5	<0.5	2
	Acenaphthylene	mg/kg	0.1 / 0.5	-	-	1	<0.5	<0.5	<0.5	3.5	0.7	<0.5	<0.5	<0.5	0.7
	Anthracene	mg/kg	0.1 / 0.5	-	-	1.9	<0.5	<0.5	<0.5	8.2	12	<0.5	<0.5	<0.5	5.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	-	3.4	0.8	<0.5	<0.5	16	20	<0.5	<0.5	0.6	11
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	-	2.9	0.7	<0.5	<0.5	10	19	<0.5	<0.5	0.6	7.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	4.7	1.1	<1	<1	17	28	<1	<1	1.1	13
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	-	1.4	<0.5	<0.5	<0.5	5.1	11	<0.5	<0.5	<0.5	3.2
	Chrysene	mg/kg	0.1 / 0.5	-	-	3.7	0.7	<0.5	<0.5	9.2	13	<0.5	<0.5	0.6	6.7
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	-	11	1.5	<0.5	<0.5	37	50	0.6	<0.5	1.2	18
	Fluorene	mg/kg	0.1 / 0.5	-	-	0.7	<0.5	<0.5	<0.5	1.9	5.1	<0.5	<0.5	<0.5	2.7
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	-	1.2	<0.5	<0.5	<0.5	4.2	8.6	<0.5	<0.5	<0.5	3.5
	Naphthalene	mg/kg	0.1 / 0.5	1900	-	<0.5	<0.5	<0.5	<0.5	0.6	3.8	<0.5	<0.5	<0.5	1
	Phenanthrene	mg/kg	0.1 / 0.5	-	-	9.9	0.7	<0.5	<0.5	32	42	0.7	<0.5	0.7	16
	Pyrene	mg/kg	0.1 / 0.5	-	-	9.2	1.4	<0.5	<0.5	31	43	<0.5	<0.5	1.2	18
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	-	51	6.9	<1	<1	180	260	1.3	<1	6	110
	Benzo(a)pyrene TEQ	mg/kg	-	3	-	4.4	1.5	-	-	14.4	25.4	-	-	-	10.8
Asbestos	Asbestos	-	-	Detect	ND	-	-	-	-	ND	-	ND	-	ND	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	<LOR	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	<LOR	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	<LOR	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	<LOR	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR		<LOR	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.0-1.1m)
LocCode	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.0-1.1m)
Sample_Depth_Range											
Sampled_Date-Time	26/07/2012	26/07/2012	25/07/2012	25/07/2012	25/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012	25/07/2012	25/07/2012
Matrix_Description											
SDG	92458-59	92458-59	89249-50	89249-50	89249-50	92458-59	92458-59	92458-59	92458-59	89249-50	89249-50

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	90	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	300	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	17000	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	600	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	80	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	30000	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Toluene	mg/kg	0.1	18000	<0.5	<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	<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	<0.5	<0.5	-
	Xylene Total	mg/kg	0.3 / 1.5	15000	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
	C16 - C34	mg/kg	100	5300	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
	C34 - C40	mg/kg	100	7400	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
	C6 - C9	mg/kg	10 / 20	5100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
	C10 - C14	mg/kg	20 / 50	3800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
	C15 - C28	mg/kg	50 / 100	5300	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
	C29 - C36	mg/kg	50 / 100	7400	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
PAH	Acenaphthene	mg/kg	0.1 / 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	0.1 / 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	0.1 / 0.5	-	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	1.8	<0.5	<0.5	<0.5	1.1	<0.5	0.8	<0.5	1	<0.5	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	1.1	<0.5	<0.5	<0.5	0.9	<0.5	0.9	<0.5	0.9	<0.5	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	2	<1	<1	<1	1.4	<1	1.4	<1	1.4	<1	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	0.5	<0.5	<0.5	<0.5	0.6	<0.5	0.5	<0.5	<0.5	<0.5	-
	Chrysene	mg/kg	0.1 / 0.5	-	1.3	<0.5	<0.5	<0.5	0.8	<0.5	0.7	<0.5	0.9	<0.5	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	3.5	<0.5	<0.5	<0.5	1.8	<0.5	1.6	<0.5	2.1	<0.5	-
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Naphthalene	mg/kg	0.1 / 0.5	1900	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Phenanthrene	mg/kg	0.1 / 0.5	-	3.2	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	1.1	<0.5	-
	Pyrene	mg/kg	0.1 / 0.5	-	3.7	<0.5	<0.5	<0.5	1.7	<0.5	1.7	<0.5	2	<0.5	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	19	<1	<1	<1	9.2	<1	7.6	<1	9.4	<1	-
	Benzo(a)pyrene TEQ	mg/kg	-	3	2.0	-	-	-	1.7	-	1.7	-	1.7	-	-
Asbestos	Asbestos	-	-	Detect	ND	-	ND	ND	-	ND	ND	-	-	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-

coffey environments
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Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)
LocCode	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)
Sample_Depth_Range											
Sampled_Date-Time	25/07/2012	25/07/2012	25/07/2012	24/07/2012	24/07/2012	24/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012	24/07/2012
Matrix_Description											
SDG	89249-50	89249-50	89249-50	89247-48	89247-48	89247-48	92458-59	92458-59	92458-59	89247-48	89247-48

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	90	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	300	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	17000	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	600	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	80	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	30000	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	18000	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	15000	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5300	<100	<100	<100	<100	150	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	7400	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	5100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	3800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5300	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	7400	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	<1	<1	<1	4.3	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.4	<0.5	0.7	0.9	0.7	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1900	<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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6	<0.5	0.6	0.9	0.7	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	<1	<1	<1	<1	<1	39	<1	1.3	2.3	1.4	<1
	Benzo(a)pyrene TEQ	mg/kg	-	3	-	-	-	-	-	4.2	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	ND	-	-	ND	-	ND	ND	ND	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 2
Soil Analytical Results - Comparison Against Health Investigation Levels for Public Open Space (HIL C and HSL C)

Haymarket Precinct, Sydney NSW

Field_ID	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
LocCode	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
Sample_Depth_Range						
Sampled_Date-Time	24/07/2012	24/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012
Matrix_Description						
SDG	89247-48	89247-48	92455-57	92455-57	92455-57	92455-57

Chem_Group	ChemName	Units	LOR	HIL						
Inorganics	Moisture	%	0.5		-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	300	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	90	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	300	-	-	-	-	-	-
	Copper	mg/kg	0.5	17000	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	600	-	-	-	-	-	-
	Mercury	mg/kg	0.05	80	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	1200	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	30000	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	5300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	18000	<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
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	15000	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	5100	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	3800	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	5300	<100	<100	<100	570	<100	<100
	C34 - C40	mg/kg	100	7400	<100	<100	<100	540	<100	<100
	C6 - C9	mg/kg	10 / 20	5100	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	3800	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	5300	<100	<100	<100	210	<100	<100
	C29 - C36	mg/kg	50 / 100	7400	<100	<100	<100	580	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	790	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	2.8	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	5.8	1.1	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	6	1.8	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	<1	9.1	2.8	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	3.7	1.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	4	1.1	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	12	1.6	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.8	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	2.7	1	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	1900	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	8.9	0.6	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	11	1.8	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	300	<1	<1	<1	68	13	<1
	Benzo(a)pyrene TEQ	mg/kg	-	3	-	-	-	8.3	2.8	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	0.52	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5	BH13 4.0	BH14_2.5
LocCode	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5	BH13 4.0	BH14_2.5
Sample_Depth_Range																			2.5
Sampled_Date-Time	7/06/2011	7/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	1/06/2011	1/06/2011	1/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	9/06/2011	9/06/2011	9/06/2011	9/06/2011	17/06/2011
Matrix_Description																			
SDG	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100639-1	SE100639-1	SE100639-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100711-1

Chem_Group	ChemName	Units	LOR	HIL																	
Inorganics	Moisture	%	0.5		10	16	8.9	13	17	16	-	18	9.4	9.9	5.5	11	20	18	-	15	-	28	25
Metals	Arsenic	mg/kg	2 / 3	3000	3	9	4	-	8	4	-	5	<3	5	<3	6	5	8	-	10	-	180	7
	Cadmium	mg/kg	0.3 / 0.4	900	0.3	<0.3	<0.3	-	<0.3	<0.3	-	0.3	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	-	0.8	-	<0.3	0.5
	Chromium	mg/kg	0.3 / 5	3600	9	16	11	-	13	13	-	16	20	13	13	14	11	16	-	9.3	-	17	18
	Copper	mg/kg	0.5	240000	13	21	44	-	4.9	35	-	34	18	13	39	36	3.8	5.1	-	70	-	11	120
	Lead	mg/kg	1 / 5	1500	15	25	260	-	19	150	-	74	21	34	31	240	24	13	-	140	-	49	170
	Mercury	mg/kg	0.05	730	<0.05	0.05	0.13	-	<0.05	0.22	-	0.12	0.09	0.1	0.11	0.19	<0.05	<0.05	-	0.45	-	0.21	1
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	7.7	3.6	7.7	-	1.2	4.7	-	4.6	5.1	9.3	13	7.8	1	1.7	-	6.2	-	11	14
	Zinc	mg/kg	0.5 / 5	400000	30	25	72	-	18	110	-	77	160	83	64	92	380	520	-	730	-	18	340
BTEX	Benzene	mg/kg	0.1 / 0.5	3	<0.1	<0.1	<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 / 0.5	2700	<0.1	<0.1	<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	99000	<0.1	<0.1	<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 / 1	-	<1	<1	<2	<1	<1	<1	-	<0.2	<1	-	<1	<0.2	<1	-	-	<1	-	<0.2	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	<0.1	<0.5	-	<0.5	<0.1	<0.5	-	-	<0.5	-	<0.1	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	230	<0.3	<0.3	<3	<0.3	<0.3	<0.3	-	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	-	<0.3	-	<0.3	<0.3
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	27000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	38000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	10 / 20	260	-	-	-	-	-	-	-	<20	<20	-	-	-	-	-	-	-	-	-	<20
	C10 - C14	mg/kg	20 / 50	20000	-	-	-	-	-	-	-	28	23	-	-	-	-	-	-	-	-	-	<20
	C15 - C28	mg/kg	50 / 100	27000	-	-	-	-	-	-	-	1200	430	-	-	-	-	-	-	-	-	-	<50
	C29 - C36	mg/kg	50 / 100	38000	-	-	-	-	-	-	-	620	260	-	-	-	-	-	-	-	-	-	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	-	-	-	-	-	-	-	1848	713	-	-	-	-	-	-	-	-	-	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	7.3	-	<0.1	1	-	2.3	3.2	<0.1	0.6	0.4	<0.1	<0.1	-	<0.1	-	<0.1	0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	0.6	-	<0.1	<0.1	-	12	0.7	0.1	0.7	0.4	<0.1	<0.1	-	0.2	-	<0.1	<0.1
	Anthracene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	17	-	<0.1	2.3	-	23	6	0.2	1.3	0.5	<0.1	<0.1	-	0.2	-	<0.1	0.2
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	30	-	<0.1	3.2	-	55	8.5	0.8	3.9	2.3	<0.1	<0.1	-	0.9	-	<0.1	0.3
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.05	<0.05	20	-	<0.05	2.1	-	47	7	0.63	3.2	1.9	<0.05	<0.05	-	0.88	-	<0.05	0.29
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<0.1	<0.1	24	-	<0.1	2.8	-	64	3	0.8	3.7		<0.1	<0.1	-	1	-	<0.1	0.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	2.5	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	0.8	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	9.6	-	<0.1	0.9	-	25	4.6	0.3	1.7	0.9	<0.1	<0.1	-	0.5	-	<0.1	0.2
	Chrysene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	17	-	<0.1	1.7	-	40	6.1	0.4	2	1.2	<0.1	<0.1	-	0.6	-	<0.1	0.3
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	2.4	-	<0.1	0.2	-	2.7	0.8	<0.1	0.3	0.2	<0.1	<0.1	-	<0.1	-	<0.1	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	51	-	0.2	6	-	120	16	1.1	3.9	2.5	0.1	<0.1	-	1.1	-	<0.1	0.6
	Fluorene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	9	-	<0.1	1.2	-	8.9	3.6	<0.1	0.6	0.3	<0.1	<0.1	-	<0.1	-	<0.1	0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	8.8	-	<0.1	0.9	-	23	3.9	0.3	1.4	0.8	<0.1	<0.1	-	0.4	-	<0.1	0.1
	Naphthalene	mg/kg	0.1 / 0.5	11000	<0.1	<0.1	5	-	<0.1	0.7	-	2.6	2.6	<0.1	0.4	0.3	<0.1	<0.1	-	<0.1	-	<0.1	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	52	-	0.1	6.7	-	84	14	0.5	3.2	1.7	<0.1	<0.1	-	0.5	-	<0.1	0.8
	Pyrene	mg/kg	0.1 / 0.5	-	<0.1	<0.1	51	-	0.1	5.6	-	120	18	1.2	6.3	3.8	0.2	<0.1	-	1.2	-	<0.1	0.8
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	<1.75	<1.75	280	-	<1.75	32	-	-	110	5.6	29	17	<1.75	<1.75	-	6.5	-	<1.75	4.2
	Benzo(a)pyrene TEQ	mg/kg	-	40	-	-	28.9	-	-	3.0	-	64.6	9.4	-	4.4	2.5	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	ND	ND	-	ND	ND	-	ND	-	ND	ND	-	ND	ND	-	ND	D	D	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	<LOR	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	<LOR	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	<LOR	-
	Other VOC	mg/kg	-	LOR	-	-	<LOR	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	<LOR	-
Other SVOC	SVOC	mg/kg	-	LOR	-	<LOR	-	-	-	-	-	<LOR	-	-	-	<LOR	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m	BH4 1.0m	BH4 1.5m
LocCode	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m	BH4 1.0m	BH4 1.5m
Sample_Depth_Range	5.5	1-1.1	2.5-2.6															
Sampled_Date-Time	17/06/2011	21/06/2011	21/06/2011	16/06/2011	16/06/2011	16/06/2011	16/06/2011	3/06/2011	3/06/2011	3/06/2011	3/06/2011	2/06/2011	2/06/2011	2/06/2011	2/06/2011	6/06/2011	6/06/2011	6/06/2011
Matrix_Description																		
SDG	SE100711-1	SE100739-1	SE100739-1	SE100735-1	SE100735-1	SE100735-1	SE100735-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1

Chem_Group	ChemName	Units	LOR	HIL																		
Inorganics	Moisture	%	0.5		24	16	32	24	23	18	17	8.5	-	13	17	13	17	-	15	12	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	6	6	11	6	7	<3	16	4	-	23	28	4	4	-	<3	12	-	-
	Cadmium	mg/kg	0.3 / 0.4	900	0.5	<0.3	0.5	0.6	0.6	<0.3	0.5	<0.3	-	0.4	0.4	<0.3	<0.3	-	<0.3	<0.3	-	-
	Chromium	mg/kg	0.3 / 5	3600	14	12	31	14	11	9.5	13	7.4	-	16	11	7.5	14	-	6	10	-	-
	Copper	mg/kg	0.5	240000	9.4	61	79	72	46	7.3	8.6	9.9	-	51	56	51	58	-	4.9	63	-	-
	Lead	mg/kg	1 / 5	1500	19	110	300	240	140	15	13	15	-	93	98	15	27	-	6	47	-	-
	Mercury	mg/kg	0.05	730	0.06	0.74	2.2	4.9	0.44	0.07	<0.05	<0.05	-	0.55	0.37	<0.05	0.48	-	<0.05	0.15	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	6.8	3.7	14	6.7	2.7	3.5	2.5	11	-	11	7	6.6	22	-	0.9	5.6	-	-
	Zinc	mg/kg	0.5 / 5	400000	130	100	100	340	110	19	27	38	-	160	110	32	50	-	1.9	91	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	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	<0.1	-	-
	Ethylbenzene	mg/kg	0.1 / 0.5	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	<0.1	-	-
	Toluene	mg/kg	0.1	99000	<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 (m & p)	mg/kg	0.2 / 1	-	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<0.2	<0.2	<0.2	-	<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	-	<0.5	<0.1	<0.1	<0.1	-	<0.5	<0.5	-	-
	Xylene Total	mg/kg	0.3 / 1.5	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	<0.3	-	-
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	27000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	38000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	10 / 20	260	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20	<20	-	<20	<20	-	-
	C10 - C14	mg/kg	20 / 50	20000	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20	<20	-	<20	<20	-	-
	C15 - C28	mg/kg	50 / 100	27000	<50	<50	<50	<50	<50	<50	<50	<50	-	140	130	<50	<50	-	<50	<50	-	-
	C29 - C36	mg/kg	50 / 100	38000	<50	<50	<50	<50	<50	<50	<50	<50	-	88	92	<50	<50	-	<50	<50	-	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<120	<120	<120	<120	<120	<120	<120	<120	-	238	232	<120	<120	-	<120	<120	-	-
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	<0.1	<0.5	<0.1	-	-	<0.1	-	-
	Acenaphthylene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.2	<0.5	<0.1	-	-	<0.1	-	-
	Anthracene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.4	<0.5	<0.1	-	-	0.1	-	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	-	0.2	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.9	<0.5	0.1	-	-	0.3	-	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	-	0.06	<0.05	<0.05	<0.05	-	-	<0.05	-	-	0.86	<0.5	0.1	-	-	0.35	-	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.3	<1	<0.1	-	-	0.2	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.5	<0.5	<0.1	-	-	0.2	-	-
	Chrysene	mg/kg	0.1 / 0.5	-	-	0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.7	<0.5	<0.1	-	-	0.3	-	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.1	<0.5	<0.1	-	-	<0.1	-	-
	Fluoranthene	mg/kg	0.1 / 0.5	-	-	0.2	<0.1	0.2	<0.1	-	-	<0.1	-	-	1.7	<0.5	0.2	-	-	0.7	-	-
	Fluorene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.2	<0.5	<0.1	-	-	<0.1	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	0.4	<0.5	<0.1	-	-	0.2	-	-
	Naphthalene	mg/kg	0.1 / 0.5	11000	-	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	-	-	<0.1 - 0.1	<0.1	<0.1	-	-	<0.1	-	-
	Phenanthrene	mg/kg	0.1 / 0.5	-	-	0.1	<0.1	0.1	<0.1	-	-	<0.1	-	-	1.1	<0.5	<0.1	-	-	0.3	-	-
	Pyrene	mg/kg	0.1 / 0.5	-	-	0.3	<0.1	0.2	<0.1	-	-	<0.1	-	-	1.6	<0.5	0.2	-	-	0.6	-	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	-	<1.75	<1.75	<1.75	<1.75	-	-	<1.75	-	-	10	-	<1.75	-	-	3.8	-	-
	Benzo(a)pyrene TEQ	mg/kg	-	40	-	-	-	-	-	-	-	-	-	-	1.1	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	ND	ND	ND	ND	-	-	ND	ND	-	-	-	ND	ND	-	-	ND	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	<LOR	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	-	-	-	-	-

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SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6	EB2/2.0-2.1	EB3/1.0-1.1
LocCode	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6	EB2/2.0-2.1	EB3/1.0-1.1
Sample_Depth_Range																		
Sampled_Date-Time	6/06/2011	6/06/2011	14/06/2011	14/06/2011	14/06/2011	9/06/2011	9/06/2011	6/06/2011	9/06/2011	14/06/2011	15/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011
Matrix_Description																		
SDG	SE100639-1	SE100639-1	SE100735-1	SE100735-1	SE100735-1	SE100700-1	SE100700-1	SE100639-1	SE100700-1	SE100735-1	SE100735-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1

Chem_Group	ChemName	Units	LOR	HIL																		
Inorganics	Moisture	%	0.5		15	14	15	18	23	21	21	-	18	8.1	9	-	20	17	18	13	17	-
Metals	Arsenic	mg/kg	2 / 3	3000	14	<3	4	-	6	3	8	-	25	5	4	-	13	6	8	9	7	-
	Cadmium	mg/kg	0.3 / 0.4	900	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	0.6	0.8	0.3	-	0.5	<0.3	<0.3	0.3	<0.3	-
	Chromium	mg/kg	0.3 / 5	3600	12	12	9.8	-	11	13	6.4	-	13	12	12	-	29	15	13	9.7	13	-
	Copper	mg/kg	0.5	240000	42	1.2	26	-	14	16	9.3	-	1.2	39	30	-	98	30	15	320	18	-
	Lead	mg/kg	1 / 5	1500	110	7	57	-	37	12	15	-	12	130	66	-	540	75	31	190	32	-
	Mercury	mg/kg	0.05	730	0.64	<0.05	0.24	-	0.23	<0.05	0.41	-	<0.05	0.27	0.12	-	1.2	0.22	0.05	0.64	1	-
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	10	1.2	13	-	5.7	13	1.2	-	1.3	7.2	19	-	26	6.5	1.9	13	3.5	-
	Zinc	mg/kg	0.5 / 5	400000	110	2.5	96	-	25	22	12	-	7.9	190	93	-	460	89	22	270	32	-
BTEX	Benzene	mg/kg	0.1 / 0.5	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	<0.1	-
	Ethylbenzene	mg/kg	0.1 / 0.5	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	<0.1	-
	Toluene	mg/kg	0.1	99000	<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 (m & p)	mg/kg	0.2 / 1	-	<0.2	<1	<1	<0.2	<1	-	<0.2	-	<1	<1	<1	-	<0.2	<0.2	<1	<1	<1	-
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.1	<0.5	<0.5	<0.1	<0.5	-	<0.1	-	<0.5	<0.5	<0.5	-	<0.1	<0.1	<0.5	<0.5	<0.5	-
	Xylene Total	mg/kg	0.3 / 1.5	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	<0.3	-
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	27000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	38000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	10 / 20	260	<20	<20	<20	-	<20	-	-	-	-	<20	<20	-	<20	<20	<20	<20	<20	-
	C10 - C14	mg/kg	20 / 50	20000	<20	<20	<20	-	<20	-	-	-	-	<20	<20	-	130	<20	<20	<20	<20	-
	C15 - C28	mg/kg	50 / 100	27000	380	<50	<50	-	<50	-	-	-	-	89	54	-	4300	290	310	170	<50	-
	C29 - C36	mg/kg	50 / 100	38000	110	<50	<50	-	<50	-	-	-	-	76	53	-	1900	150	140	130	<50	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	500	<120	<120	-	<120	-	-	-	-	175	117	-	6330	450	460	310	<120	-
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	35	1.6	2.4	0.2	<0.1	-
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.5	0.2	-	1.1	<0.1	<0.1	0.4	<0.1	-
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.7	0.2	-	69	3.2	<0.1	1	0.3	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	1.6	0.8	-	160	8.7	<0.1	4	0.4	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	-	0.24	-	<0.05	<0.05	<0.05	-	<0.05	1.5	0.92	-	74	4.3	<0.05	3.2	0.35	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	-	0.4	-	<0.1	<0.1	<0.1	-	<0.1	0.9	0.5	-	-	-	<0.1	1.2	0.1	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	110	6.6	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	34	1.3	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	1	0.7	-	38	2.3	<0.1	1.9	0.2	-
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	1.4	0.7	-	98	4.5	<0.1	1.9	0.3	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.1	<0.1	-	12	0.8	<0.1	0.5	<0.1	-
	Fluoranthene	mg/kg	0.1 / 0.5	-	0.6	-	0.5	-	<0.1	<0.1	<0.1	-	<0.1	2.9	1.3	-	220	13	<0.1	5.2	0.8	-
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.2	<0.1	-	50	2.2	<0.1	0.4	0.1	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	-	0.1	-	<0.1	<0.1	<0.1	-	<0.1	0.8	0.5	-	32	2.2	<0.1	1.9	0.2	-
	Naphthalene	mg/kg	0.1 / 0.5	11000	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	0.1	<0.1	-	9.8	0.6	0.6	0.3	<0.1	-
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	-	0.2	-	<0.1	<0.1	<0.1	-	<0.1	2.1	0.5	-	370	15	<0.1	3.2	0.6	-
	Pyrene	mg/kg	0.1 / 0.5	-	1.2	-	0.5	-	<0.1	<0.1	<0.1	-	<0.1	2.8	1.4	-	220	12	<0.1	5.4	0.8	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	-	-	2.2	-	<1.75	<1.75	<1.75	-	<1.75	16	7.1	-	1400	70	3	35	4.7	-
	Benzo(a)pyrene TEQ	mg/kg	-	40	-	-	-	-	-	-	-	-	-	2.0	-	-	110.0	6.4	-	4.4	-	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	-	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-	-	-
	Other VOC	mg/kg	-	LOR	<LOR	-	-	<LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	<LOR	-	-	-	-	-	-	-	-	-	-	-	<LOR	<LOR	-	-	-	-

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Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9	BH29_0.4-0.5
LocCode	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9	BH29_0.4-0.5
Sample_Depth_Range															
Sampled_Date-Time	10/06/2011	10/06/2011	10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	18/04/2012	18/04/2012	18/04/2012	24/04/2012	27/04/2012	27/04/2012	27/04/2012	17/04/2012
Matrix_Description															
SDG	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE107686-1	SE107686-1	SE107686-1	SE107335-1	SE107335-1	SE107335-1	SE107686-1	SE107819-1	SE107819-1	SE107819-1	SE107335-1
Inorganics	Moisture	%	0.5		10	15	9.1	18	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	13	6	5	-	3	5	8	4	12	12	4	6	5	<3	<3
	Cadmium	mg/kg	0.3 / 0.4	900	<0.3	<0.3	<0.3	-	0.3	0.3	<0.3	<0.3	0.4	0.3	0.4	0.3	<0.3	<0.3	0.3
	Chromium	mg/kg	0.3 / 5	3600	18	9.5	15	-	5.1	7.9	5.6	7.3	9.9	21	6.9	6.9	17	16	22
	Copper	mg/kg	0.5	240000	110	7.3	12	-	51	580	5.8	23	41	63	98	2.3	13	8.6	80
	Lead	mg/kg	1 / 5	1500	310	23	31	-	220	92	14	13	93	91	96	9	30	15	24
	Mercury	mg/kg	0.05	730	0.68	<0.05	0.07	-	0.89	1.3	0.07	0.07	0.26	0.18	0.13	<0.05	0.08	<0.05	0.3
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	11	1.3	4.6	-	12	7.3	1.6	5	16	4.8	11	<0.5	12	3.7	38
	Zinc	mg/kg	0.5 / 5	400000	190	12	17	-	310	110	6	33	100	95	210	21	27	3.7	71
BTEX	Benzene	mg/kg	0.1 / 0.5	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	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	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	<0.1	<0.1
	Toluene	mg/kg	0.1	99000	<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	<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	<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	<0.1	<0.1	<0.1	<0.1
	Xylene Total	mg/kg	0.3 / 1.5	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	<0.3	<0.3
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	27000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	38000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C6 - C9	mg/kg	10 / 20	260	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	20000	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	30	<20	<20	<20	20
	C15 - C28	mg/kg	50 / 100	27000	320	<50	<50	<50	<50	<50	<50	<50	190	<50	450	<50	<50	<50	2500
	C29 - C36	mg/kg	50 / 100	38000	190	<50	<50	<50	<50	<50	<50	<50	55	<50	420	<50	<50	<50	1700
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	520	<120	<120	<120	<120	<120	<120	<120	255	<120	900	<120	<120	<120	4220
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	3	<0.1	<0.1	<0.1	0.2
	Acenaphthylene	mg/kg	0.1 / 0.5	-	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.1	1.4	<0.1	<0.1	<0.1	0.1
	Anthracene	mg/kg	0.1 / 0.5	-	2.3	<0.1	0.2	<0.1	0.1	<0.1	<0.1	<0.1	1.2	0.3	3.8	<0.1	<0.1	<0.1	0.7
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	6.4	0.3	0.4	<0.1	0.3	0.2	<0.1	<0.1	2.2	0.6	4.8	<0.1	<0.1	<0.1	0.8
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	3.9	0.15	0.25	<0.05	0.3	0.1	<0.1	<0.1	1.6	0.5	4.4	<0.1	<0.1	<0.1	0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	1.5	<0.1	0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	0.4	0.2	<0.1	<0.1	1.9	0.6	5.9	<0.1	<0.1	<0.1	0.7
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	0.2	<0.1	<0.1	<0.1	0.7	0.3	2	<0.1	<0.1	<0.1	0.4
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	2.1	<0.1	0.2	<0.1	0.2	0.1	<0.1	<0.1	0.8	0.3	3.2	<0.1	<0.1	<0.1	0.5
	Chrysene	mg/kg	0.1 / 0.5	-	3.2	0.1	0.2	<0.1	0.3	0.2	<0.1	<0.1	1.4	0.4	3.6	<0.1	<0.1	<0.1	0.8
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.1	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	-	9.1	0.4	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.9	1	15	<0.1	<0.1	<0.1	1.5
	Fluorene	mg/kg	0.1 / 0.5	-	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.1	<1	<0.1	<0.1	<0.1	0.3
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	2.2	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.7	0.2	2.3	<0.1	<0.1	<0.1	0.3
	Naphthalene	mg/kg	0.1 / 0.5	11000	0.7	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.2	<0.1	1.2	<0.1	<0.1	<0.1	0.1
	Phenanthrene	mg/kg	0.1 / 0.5	-	7.9	0.3	0.6	<0.1	0.5	0.2	<0.1	<0.1	3.1	0.8	8.2	<0.1	<0.1	<0.1	3.2
	Pyrene	mg/kg	0.1 / 0.5	-	8.8	0.3	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.7	1	14	<0.1	<0.1	<0.1	1.3
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	58	<1.75	3.8	<1.75	3.3	1.4	<0.8	<0.8	23	6	73	<0.8	<0.8	<0.8	11
	Benzo(a)pyrene TEQ	mg/kg	-	40	5.6	-	-	-	-	-	-	-	-	-	6.4	-	-	-	0.8
Asbestos	Asbestos	-	-	Detect	ND	ND	ND	-	ND	-	-	ND	-	-	ND	ND	-	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)
LocCode	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)
Sample_Depth_Range													
Sampled_Date-Time	17/04/2012	17/04/2012	27/04/2012	27/04/2012	27/04/2012	27/04/2012	24/04/2012	24/04/2012	24/04/2012	24/04/2012	12/12/2012	12/12/2012	12/12/2012
Matrix_Description													
SDG	SE107335-1	SE107335-1	SE107819-1	SE107819-1	SE107819-1	SE107819-1	SE107686-1	SE107686-1	SE107686-1	SE107686-1	103789-90	103789-90	103789-90

Chem_Group	ChemName	Units	LOR	HIL												
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	4	3	<3	4	<3	9	<3	-	<3	16	4.6	<2	-
	Cadmium	mg/kg	0.3 / 0.4	900	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.4	<0.4	-
	Chromium	mg/kg	0.3 / 5	3600	8.9	4.7	11	11	9.7	260	4.9	-	7.6	12	5.6	7	-
	Copper	mg/kg	0.5	240000	83	5.5	35	8.7	4.7	33	5.4	-	8.5	3.4	17	23	-
	Lead	mg/kg	1 / 5	1500	230	6	51	18	27	19	11	-	16	14	58	44	-
	Mercury	mg/kg	0.05	730	2.1	<0.05	0.28	0.08	0.08	<0.05	<0.05	-	<0.05	<0.05	0.06	0.07	-
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	9.6	<0.5	31	3.2	2.1	25	3.6	-	6.2	4.1	11	7.3	-
	Zinc	mg/kg	0.5 / 5	400000	310	3.5	89	23	32	9.4	22	-	33	9.9	250	280	-
BTEX	Benzene	mg/kg	0.1 / 0.5	3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	2700	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.4	<0.1	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99000	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	1.1	<0.2	<1	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.3	<0.1	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	230	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	1.4	<0.3	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	-	-	-	-	-	-	-	-	-	-	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	-	-	-	-	-	-	-	-	-	-	<50	<50	<50
	C16 - C34	mg/kg	100	27000	-	-	-	-	-	-	-	-	-	-	<100	<100	<100
	C34 - C40	mg/kg	100	38000	-	-	-	-	-	-	-	-	-	-	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	260	<20	<20	<20	<20	<20	<20	<20	-	21	<20	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	20000	<20	<20	<20	<20	<20	<20	<20	-	62	<20	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	27000	840	<50	<50	<50	<50	<50	<50	-	2400	<50	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	38000	380	<50	<50	<50	<50	<50	<50	-	1100	<50	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	1230	<120	<120	<120	<120	<120	<120	-	3562	<120	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	2.5	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	-	13	<0.1	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	4.7	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	-	<1	<0.1	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	13	0.2	0.7	<0.1	0.3	<0.1	<0.1	-	23	0.1	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	26	0.2	1.2	<0.1	0.5	<0.1	<0.1	-	50	0.3	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	16	0.1	1	<0.1	0.6	<0.1	<0.1	-	30	0.2	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	-	-	-	-	-	-	-	-	-	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	21	0.2	1.1	<0.1	<0.1	<0.1	<0.1	-	28	0.2	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	5.6	0.1	0.6	<0.1	0.4	<0.1	<0.1	-	10	0.1	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	9.3	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	-	15	0.1	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	14	0.2	0.9	<0.1	0.4	<0.1	<0.1	-	42	0.3	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	2.5	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	-	3.1	<0.1	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	53	0.5	2.6	<0.1	1.2	<0.1	<0.1	-	79	0.4	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	5.5	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	-	12	<0.1	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	8.1	<0.1	0.5	<0.1	0.4	<0.1	<0.1	-	11	<0.1	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	11000	2.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<1	<0.1	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	69	0.6	2	<0.1	0.8	<0.1	<0.1	-	120	0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	51	0.5	2.4	<0.1	1.2	<0.1	<0.1	-	110	0.6	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	300	2.3	14	<0.8	<0.8	<0.8	<0.8	-	550	2.7	<1	<1	<1
	Benzo(a)pyrene TEQ	mg/kg	-	40	22.7	-	1.3			-	-	-	40.8	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	-	-	-	ND	ND	-	-	-	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_(0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)
LocCode	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)
Sample_Depth_Range											
Sampled_Date-Time	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
Matrix_Description											
SDG	103789-90	103789-90	103789-90	103789-90	103787-103788		103787-103788		103787-103788	103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	-	2.8	4.1	-	<2	-	4.8	-	3.8	16	34
	Cadmium	mg/kg	0.3 / 0.4	900	-	<0.4	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	3600	-	6.1	<5	-	<5	-	<5	-	21	24	35
	Copper	mg/kg	0.5	240000	-	<5	5	-	75	-	17	-	24	<5	96
	Lead	mg/kg	1 / 5	1500	-	13	7.6	-	5.6	-	40	-	190	63	530
	Mercury	mg/kg	0.05	730	-	<0.05	<0.05	-	<0.05	-	0.2	-	1.8	0.51	4.9
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	-	<5	<5	-	210	-	6.3	-	6.7	<5	35
	Zinc	mg/kg	0.5 / 5	400000	-	78	140	-	90	-	26	-	70	30	220
BTEX	Benzene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	2700	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99000	<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	<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	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	230	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	-	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	<20	<20	<20	<20	<20	-	<20	-	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	<50	<50	<50	<50	<50	-	<50	-	<50	<50	<50
	C16 - C34	mg/kg	100	27000	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
	C34 - C40	mg/kg	100	38000	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	260	<10	<10	<10	<10	<10	-	<10	-	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	20000	<50	<50	<50	<50	<50	-	<50	-	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	27000	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	38000	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 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	0.1 / 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	0.05 / 0.1 / 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	0.1 / 1	-	<1	<1	<1	<1	<1	-	<1	-	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	11000	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	<1	<1	<1	<1	<1	-	<1	-	<1	<1	<1
	Benzo(a)pyrene TEQ	mg/kg	-	40	-	-	-	-	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	-	-	-	ND	D	ND	ND	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-		-		-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-		-		-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	-	-	-		-		-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-		-		-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-		-		-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH120_(0.03-0.13m)_A	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)
LocCode	BH120_(0.03-0.13m)_A	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)
Sample_Depth_Range											
Sampled_Date-Time	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012
Matrix_Description											
SDG	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99

Chem_Group	ChemName	Units	LOR	HIL										
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	-	4	6.1	-	-	-	-	-	8.7	-	14
	Cadmium	mg/kg	0.3 / 0.4	900	-	<0.4	<0.4	-	-	-	-	-	<0.4	-	<0.4
	Chromium	mg/kg	0.3 / 5	3600	-	110	6.7	-	-	-	-	-	42	-	11
	Copper	mg/kg	0.5	240000	-	43	51	-	-	-	-	-	130	-	93
	Lead	mg/kg	1 / 5	1500	-	6.2	250	-	-	-	-	-	79	-	160
	Mercury	mg/kg	0.05	730	-	<0.05	0.57	-	-	-	-	-	0.41	-	0.59
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	-	120	<5	-	-	-	-	-	51	-	14
	Zinc	mg/kg	0.5 / 5	400000	-	79	190	-	-	-	-	-	120	-	150
BTEX	Benzene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	2700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99000	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	230	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	27000	<100	<100	<100	<100	410	170	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	38000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	260	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	20000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	27000	<100	<100	<100	160	390	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	38000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	160	390	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.7	4.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	8.9	<0.5	<0.5	<0.5	1.1	1.2	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	1.2	5.6	12	<0.5	<0.5	<0.5	<0.5	<0.5	0.7
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	1.4	3.9	8.7	<0.5	<0.5	0.7	0.8	<0.5	0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	2.2	7.1	15	<1	<1	1.4	<1	<1	1.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	1	2	4.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	1.2	4.8	9.6	<0.5	<0.5	0.8	<0.5	<0.5	0.6
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	1.9	12	27	<0.5	<0.5	2	2.3	<0.5	0.9
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.7	3.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	0.8	1.8	4.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	11000	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	1.1	9.1	31	<0.5	<0.5	1.2	1.2	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	2.1	10	23	<0.5	<0.5	1.7	2	<0.5	1
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	<1	<1	13	67	140	<1	<1	8.9	7.5	<1	4.8
	Benzo(a)pyrene TEQ	mg/kg	-	40	-	-	2.3	5.9	12.5			1.5	1.5	-	-
Asbestos	Asbestos	-	-	Detect	ND	-	ND	-	-	-	-	-	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	<LOR	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	<LOR	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	-	-	-	-	<LOR	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	<LOR	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	<LOR	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1M)	BH122A_(1.5-1.6m)_A	BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)
LocCode	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1m)	BH122A_(1.5-1.6m)_A	BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)
Sample_Depth_Range											
Sampled_Date-Time	18/12/2012	18/12/2012	18/12/2012	18/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
Matrix_Description											
SDG	103797-99	103797-99	103797-99	103797-99	103789-90	103789-90	103791-93		103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	-	-	14	-	2.1	-	2.8	-	5.2	4.5	5
	Cadmium	mg/kg	0.3 / 0.4	900	-	-	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	3600	-	-	27	-	11	-	7.5	-	11	11	11
	Copper	mg/kg	0.5	240000	-	-	350	-	20	-	29	-	26	26	48
	Lead	mg/kg	1 / 5	1500	-	-	2700	-	35	-	47	-	56	52	140
	Mercury	mg/kg	0.05	730	-	-	3.4	-	0.06	-	0.06	-	0.12	0.16	0.35
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	-	-	62	-	8	-	<5	-	<5	<5	<5
	Zinc	mg/kg	0.5 / 5	400000	-	-	310	-	60	-	55	-	63	56	81
BTEX	Benzene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	2700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99000	<0.5	<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	<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	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	230	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	<20	<20	<20	<20	<20	<20	<20	-	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	<50	<50	<50	<50	<50	<50	<50	-	<50	<50	<50
	C16 - C34	mg/kg	100	27000	1800	680	490	<100	<100	<100	<100	-	<100	230	<100
	C34 - C40	mg/kg	100	38000	320	<100	130	<100	<100	<100	<100	-	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	260	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	20000	<50	<50	<50	<50	<50	<50	<50	-	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	27000	1300	520	350	<100	<100	<100	<100	-	<100	180	<100
	C29 - C36	mg/kg	50 / 100	38000	810	270	270	<100	<100	<100	<100	-	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	2135	790	620	<100	<100	<100	<100	-	<100	180	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<5	<5	1.4	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	7.9	14	3.6	<0.5	<0.5	<0.5	<0.5	-	<0.5	0.7	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	31	18	10	<0.5	<0.5	1.3	<0.5	-	1.3	2.2	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	22	13	7.8	<0.5	<0.5	1.3	<0.5	-	1.2	2.1	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	39	21	13	<1	<1	2	<1	-	2.1	3.5	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	11	6.6	3.8	<0.5	<0.5	0.7	<0.5	-	0.7	1.1	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	23	14	8	<0.5	<0.5	1.1	<0.5	-	1.1	2	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	55	30	18	0.8	0.9	2.4	<0.5	-	2.4	4.2	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<5	<5	1.2	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	9.8	<5	3.5	<0.5	<0.5	0.6	<0.5	-	0.6	1	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	11000	1	0.6	0.8	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	28	14	14	<0.5	0.6	1.4	<0.5	-	1.4	2.7	0.8
	Pyrene	mg/kg	0.1 / 0.5	-	53	31	17	0.8	0.9	2.3	<0.5	-	2.2	4	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	280	160	100	1.6	2.4	13	<1	-	13	24	<1
	Benzo(a)pyrene TEQ	mg/kg	-	40	35.3	22.6	11.1	-	-	-	-	-	2.1	3.3	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	-	ND	-	ND	ND	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-		-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-		-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	-	-	-	-	-		-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-		-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-		-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)
LocCode	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)
Sample_Depth_Range											
Sampled_Date-Time	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
Matrix_Description											
SDG	103791-93	103791-93	103789-90	103789-90	103789-90	103789-90	103791-93	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR	HIL										
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	<2	-	-	-	-	-	7.6	6.1	6.4	9.3	6.9
	Cadmium	mg/kg	0.3 / 0.4	900	<0.4	-	-	-	-	-	0.4	<0.4	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	3600	7.6	-	-	-	-	-	10	<5	<5	6.7	12
	Copper	mg/kg	0.5	240000	6.9	-	-	-	-	-	50	26	32	46	9.4
	Lead	mg/kg	1 / 5	1500	9.3	-	-	-	-	-	69	36	47	40	<5
	Mercury	mg/kg	0.05	730	0.11	-	-	-	-	-	0.12	0.1	0.11	0.13	0.07
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	<5	-	-	-	-	-	11	<5	5.3	<5	<5
	Zinc	mg/kg	0.5 / 5	400000	<5	-	-	-	-	-	110	51	69	41	13
BTEX	Benzene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	2700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99000	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	230	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	<50	<50	<50	<50	60	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	27000	<100	<100	<100	<100	840	390	<100	180	180	<100	<100
	C34 - C40	mg/kg	100	38000	<100	<100	<100	<100	100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	260	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	20000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	27000	<100	<100	<100	<100	810	380	<100	140	110	<100	<100
	C29 - C36	mg/kg	50 / 100	38000	<100	<100	<100	<100	220	100	<100	<100	100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	1055	505	<100	140	210	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	2.6	0.8	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	5.3	4.8	<0.5	0.8	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	12	6	<0.5	1.3	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.6	34	13	<0.5	2.8	1.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	0.7	30	14	<0.5	2.9	1.7	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	<1	1.2	46	20	<1	4.6	2.7	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	13	6.7	<0.5	1.8	1.1	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.6	27	8.8	<0.5	2.7	1.4	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	4	1.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	1	58	28	0.9	5.7	2.5	0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	6.2	3.9	<0.5	0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	12	5.6	<0.5	1.6	0.9	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	11000	<0.5	<0.5	<0.5	<0.5	3	2.7	<0.5	0.6	2.1	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	44	19	0.8	4.8	1.1	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	1.1	55	25	0.9	5.5	2.6	0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	<1	<1	<1	5.2	350	160	2.6	36	18	1	<1
	Benzo(a)pyrene TEQ	mg/kg	-	40	-	-	-	1.4	43.6	19.6	-	4.3	2.7	-	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	ND	-	-	ND	ND	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH123A_(4.0-4.1m)	BH124_(0.01-0.11M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)
LocCode	BH123A_(4.0-4.1m)	BH124_(0.01-1.1M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)
Sample_Depth_Range											
Sampled_Date-Time	13/12/2012	13/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
Matrix_Description											
SDG	103791-93		103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	2.5	-	13	13	6.8	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	900	<0.4	-	1	0.6	0.4	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	3600	<5	-	12	11	8.5	-	-	-	-	-	-
	Copper	mg/kg	0.5	240000	<5	-	92	140	59	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	1500	<5	-	180	120	64	-	-	-	-	-	-
	Mercury	mg/kg	0.05	730	<0.05	-	0.22	0.26	0.23	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	<5	-	16	12	20	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	400000	<5	-	240	170	94	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	3	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	2700	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99000	<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	<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	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	230	<1.5	-	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	<20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	<50	-	<50	<50	<50	300	1600	1300	<50	1600	1300
	C16 - C34	mg/kg	100	27000	<100	-	<100	<100	<100	1100	2700	1900	140	2200	2000
	C34 - C40	mg/kg	100	38000	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	260	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	20000	<50	-	<50	<50	<50	110	620	630	<50	630	660
	C15 - C28	mg/kg	50 / 100	27000	<100	-	<100	<100	<100	1300	3800	2700	<100	3200	2600
	C29 - C36	mg/kg	50 / 100	38000	<100	-	<100	<100	<100	220	350	220	160	320	310
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	-	<100	<100	<100	1630	4770	3550	160	4150	3600
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 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	0.1 / 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	0.05 / 0.1 / 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	0.1 / 1	-	<1	-	<1	<1	-	-	-	-	-	-	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	-	1.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	0.9	1.4	<0.5	1.2	1.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	11000	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	-	1	<0.5	<0.5	-	1.3	<0.5	<0.5	1.9	1.6
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	-	1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	<1	-	4.1	<1	-	-	-	-	-	-	-
	Benzo(a)pyrene TEQ	mg/kg	-	40	-	-	-	-	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	ND	ND	-	-	-	-	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR	<LOR
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	0.7	0.8
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	1.3	0.9
	Other VOC	mg/kg	-	LOR	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR	<LOR
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	<LOR	-	<LOR	<LOR	<LOR	<LOR	<LOR

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH125_(0.23-0.33m)_A	BH125_(0.23-0.33m)	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	BH126_(0.5-0.6m)_A
LocCode	BH125_(0.23-0.33m)_A	BH125_(0.23-0.33m)	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	BH126_(0.5-0.6m)_A
Sample_Depth_Range											
Sampled_Date-Time	11/12/2012	11/12/2012	11/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	12/12/2012	12/12/2012
Matrix_Description											
SDG	103786	103786	103786	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR	HIL										
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	2.9	3.6	5.1	-	<2	16	-	-	-	<2	3.7
	Cadmium	mg/kg	0.3 / 0.4	900	<0.4	<0.4	<0.4	-	<0.4	<0.4	-	-	-	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	3600	<5	<5	18	-	<5	15	-	-	-	<5	<5
	Copper	mg/kg	0.5	240000	26	39	43	-	5.8	19	-	-	-	15	20
	Lead	mg/kg	1 / 5	1500	99	84	110	-	13	57	-	-	-	33	68
	Mercury	mg/kg	0.05	730	0.21	0.24	0.34	-	<0.05	0.62	-	-	-	0.3	0.36
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	<5	<5	5.3	-	<5	9.1	-	-	-	<5	<5
	Zinc	mg/kg	0.5 / 5	400000	93	74	77	-	12	220	-	-	-	29	95
BTEX	Benzene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	2700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99000	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	230	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	27000	1200	1000	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	38000	130	100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	260	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	20000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	27000	940	740	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	38000	530	470	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	1500	1235	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	2.1	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	18	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	18	13	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	27	31	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	20	25	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	33	39	1.4	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	7.8	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	18	24	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	1.8	3.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	66	65	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	15	4.5	<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	0.1 / 0.5	-	7.4	9.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	11000	18	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	87	65	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	54	64	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	390	370	9.7	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(a)pyrene TEQ	mg/kg	-	40	28.8	36.4	1.5	-	-	-	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	-	-	-	-	ND	ND	-	-	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-

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SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M)_A
LocCode	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M)_A
Sample_Depth_Range											
Sampled_Date-Time	12/12/2012	12/12/2012	12/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	17/12/2012
Matrix_Description											
SDG	103787-103788	103787-103788	103787-103788	103784-103785	103784-103785	103786	103786	103786	103786	103786	103794-103796

Chem_Group	ChemName	Units	LOR	HIL										
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	<2	3.5	25	<2	<2	3.6	5.2	4.4	<2	-	3.4
	Cadmium	mg/kg	0.3 / 0.4	900	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	-	<0.4
	Chromium	mg/kg	0.3 / 5	3600	<5	7.4	<5	<5	6.3	9.3	7.6	5.5	<5	-	12
	Copper	mg/kg	0.5	240000	41	560	<5	64	55	28	43	42	<5	-	27
	Lead	mg/kg	1 / 5	1500	95	710	9.7	11	6.8	85	190	160	<5	-	89
	Mercury	mg/kg	0.05	730	0.47	5.7	<0.05	<0.05	<0.05	0.17	0.55	0.55	<0.05	-	0.18
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	5.7	7.4	<5	130	120	15	14	15	<5	-	5.6
	Zinc	mg/kg	0.5 / 5	400000	100	140	<5	71	67	93	140	140	<5	-	78
BTEX	Benzene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	2700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99000	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	230	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	27000	<100	110	240	<100	<100	550	780	550	110	<100	<100
	C34 - C40	mg/kg	100	38000	<100	<100	<100	<100	<100	760	400	390	170	<100	<100
	C6 - C9	mg/kg	10 / 20	260	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	20000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	27000	<100	<100	250	<100	<100	250	350	190	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	38000	<100	<100	<100	<100	<100	550	860	730	260	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	250	<100	<100	800	1235	945	260	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	3.7	2.3	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	0.7	1.3	<0.5	<0.5	<0.5	0.5	6.7	3.6	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	1.3	4.1	<0.5	<0.5	<0.5	0.8	15	7.4	<0.5	<0.5	0.6
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	0.9	3.1	<0.5	<0.5	<0.5	0.8	12	5.9	<0.5	<0.5	0.7
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	1.6	5.9	<1	<1	<1	1.3	20	9.7	<1	<1	1.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	4.9	2.6	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	1.1	3.1	<0.5	<0.5	<0.5	0.7	11	5.1	<0.5	<0.5	0.6
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	2.8	7.3	<0.5	<0.5	<0.5	1.9	31	16	<0.5	0.5	1.2
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.1	1.8	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	4.4	2.2	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	11000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	2.2	3.7	<0.5	<0.5	<0.5	1.2	21	13	<0.5	<0.5	0.7
	Pyrene	mg/kg	0.1 / 0.5	-	2.5	5.9	<0.5	<0.5	<0.5	1.9	28	14	<0.5	<0.5	1.2
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	13	38	<1	<1	<1	9.1	160	84	<1	<1	6.1
	Benzo(a)pyrene TEQ	mg/kg	-	40	1.8	4.8	-	-	-	-	16.6	8.4	-	-	-
Asbestos	Asbestos	-	-	Detect	ND	-	-	-	ND	ND	-	-	-	-	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-
	Other VOC	mg/kg	-	LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	<LOR	-	-	-	-	-	<LOR	<LOR	-

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SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)
LocCode	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)
Sample_Depth_Range											
Sampled_Date-Time	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	10/12/2012	10/12/2012	11/12/2012	11/12/2012
Matrix_Description											
SDG	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103784-103785	103784-103785	103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR	HIL										
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	5.2	-	7.4	4.5	3.5	-	-	4.1	4.9	6.9	9.6
	Cadmium	mg/kg	0.3 / 0.4	900	<0.4	-	<0.4	<0.4	<0.4	-	-	<0.4	0.5	0.5	0.6
	Chromium	mg/kg	0.3 / 5	3600	12	-	21	23	11	-	-	<5	16	7.1	6.9
	Copper	mg/kg	0.5	240000	27	-	36	24	13	-	-	29	49	130	150
	Lead	mg/kg	1 / 5	1500	96	-	430	200	93	-	-	52	150	410	370
	Mercury	mg/kg	0.05	730	0.27	-	1.2	1.5	0.54	-	-	0.43	0.68	4.5	4.3
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	5.8	-	12	8.2	<5	-	-	6.6	14	12	14
	Zinc	mg/kg	0.5 / 5	400000	94	-	410	220	130	-	-	140	430	1700	1700
BTEX	Benzene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	2700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99000	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	230	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	27000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	38000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	260	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	20000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	27000	110	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	38000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	110	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 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	0.1 / 0.5	-	2.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	2.8	<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	0.1 / 0.5	-	4.4	1.2	0.7	1.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	2.9	1.2	0.9	1.4	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	5	2.1	1.6	2.3	<1	<1	<1	<1	1.1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	1.6	0.9	0.7	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	3	1.2	0.8	1.2	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	8.8	2	1.2	2	<0.5	<0.5	<0.5	<0.5	1	1	1
	Fluorene	mg/kg	0.1 / 0.5	-	1.7	<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	0.1 / 0.5	-	1.6	0.7	0.6	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	11000	<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	0.1 / 0.5	-	11	1.2	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	7.4	2	1.3	2	<0.5	<0.5	<0.5	<0.5	1	0.9	0.9
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	53	13	7.8	13	<1	<1	<1	<1	4.9	1.9	1.9
	Benzo(a)pyrene TEQ	mg/kg	-	40	4.5	2.1	1.7	2.4	-	-	-	-	1.3	-	-
Asbestos	Asbestos	-	-	Detect	ND	ND	-	-	-	-	-	-	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	<LOR	-	1.8	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	<LOR	-	<LOR	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	-	-	<LOR	-	<LOR	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	<LOR	-	<LOR	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	<LOR	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)
LocCode	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)
Sample_Depth_Range											
Sampled_Date-Time	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	25/07/2012	26/07/2012
Matrix_Description											
SDG		103787-103788	103787-103788	103787-103788	103787-103788	92455-57	92455-57	92455-57	92455-57	89249-50	92458-59

Chem_Group	ChemName	Units	LOR	HIL										
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	-	9.3	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	900	-	1.2	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	3600	-	10	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	240000	-	110	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	1500	-	330	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	730	-	3	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	-	11	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	400000	-	2200	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	3	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	2700	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99000	-	<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	<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	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	230	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	-	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	-	<50	<50	<50	<50	<50	<50	<50	<50	58
	C16 - C34	mg/kg	100	27000	-	<100	<100	<100	<100	580	940	<100	<100	710
	C34 - C40	mg/kg	100	38000	-	<100	<100	<100	<100	110	230	<100	<100	150
	C6 - C9	mg/kg	10 / 20	260	-	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	20000	-	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	27000	-	<100	<100	<100	<100	470	690	<100	<100	540
	C29 - C36	mg/kg	50 / 100	38000	-	<100	<100	<100	<100	200	420	<100	<100	280
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	-	<100	<100	<100	<100	670	1135	<100	<100	820
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	5	<0.5	<0.5	2
	Acenaphthylene	mg/kg	0.1 / 0.5	-	-	1	<0.5	<0.5	<0.5	3.5	0.7	<0.5	<0.5	0.7
	Anthracene	mg/kg	0.1 / 0.5	-	-	1.9	<0.5	<0.5	<0.5	8.2	12	<0.5	<0.5	5.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	-	3.4	0.8	<0.5	<0.5	16	20	<0.5	<0.5	11
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	-	2.9	0.7	<0.5	<0.5	10	19	<0.5	<0.5	7.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	4.7	1.1	<1	<1	17	28	<1	<1	13
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	-	1.4	<0.5	<0.5	<0.5	5.1	11	<0.5	<0.5	3.2
	Chrysene	mg/kg	0.1 / 0.5	-	-	3.7	0.7	<0.5	<0.5	9.2	13	<0.5	<0.5	6.7
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	-	11	1.5	<0.5	<0.5	37	50	0.6	<0.5	18
	Fluorene	mg/kg	0.1 / 0.5	-	-	0.7	<0.5	<0.5	<0.5	1.9	5.1	<0.5	<0.5	2.7
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	-	1.2	<0.5	<0.5	<0.5	4.2	8.6	<0.5	<0.5	3.5
	Naphthalene	mg/kg	0.1 / 0.5	11000	-	<0.5	<0.5	<0.5	<0.5	0.6	3.8	<0.5	<0.5	1
	Phenanthrene	mg/kg	0.1 / 0.5	-	-	9.9	0.7	<0.5	<0.5	32	42	0.7	<0.5	16
	Pyrene	mg/kg	0.1 / 0.5	-	-	9.2	1.4	<0.5	<0.5	31	43	<0.5	<0.5	18
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	-	51	6.9	<1	<1	180	260	1.3	<1	110
	Benzo(a)pyrene TEQ	mg/kg	-	40	-	4.4	1.5	-	-	14.4	25.4	-	-	10.8
Asbestos	Asbestos	-	-	Detect	ND	-	-	-	-	ND	-	ND	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	<LOR	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	<LOR	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	<LOR	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	<LOR	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR		<LOR	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.0-1.1m)
LocCode	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.0-1.1m)
Sample_Depth_Range											
Sampled_Date-Time	26/07/2012	26/07/2012	25/07/2012	25/07/2012	25/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012	25/07/2012	25/07/2012
Matrix_Description											
SDG	92458-59	92458-59	89249-50	89249-50	89249-50	92458-59	92458-59	92458-59	92458-59	89249-50	89249-50

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	900	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	3600	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	240000	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	1500	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	730	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	400000	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Ethylbenzene	mg/kg	0.1 / 0.5	2700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Toluene	mg/kg	0.1	99000	<0.5	<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	<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	<0.5	<0.5	-
	Xylene Total	mg/kg	0.3 / 1.5	230	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
	C16 - C34	mg/kg	100	27000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
	C34 - C40	mg/kg	100	38000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
	C6 - C9	mg/kg	10 / 20	260	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-
	C10 - C14	mg/kg	20 / 50	20000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-
	C15 - C28	mg/kg	50 / 100	27000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
	C29 - C36	mg/kg	50 / 100	38000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-
PAH	Acenaphthene	mg/kg	0.1 / 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	0.1 / 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	0.1 / 0.5	-	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	1.8	<0.5	<0.5	<0.5	1.1	<0.5	0.8	<0.5	1	<0.5	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	1.1	<0.5	<0.5	<0.5	0.9	<0.5	0.9	<0.5	0.9	<0.5	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	2	<1	<1	<1	1.4	<1	1.4	<1	1.4	<1	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	0.5	<0.5	<0.5	<0.5	0.6	<0.5	0.5	<0.5	<0.5	<0.5	-
	Chrysene	mg/kg	0.1 / 0.5	-	1.3	<0.5	<0.5	<0.5	0.8	<0.5	0.7	<0.5	0.9	<0.5	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	3.5	<0.5	<0.5	<0.5	1.8	<0.5	1.6	<0.5	2.1	<0.5	-
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Naphthalene	mg/kg	0.1 / 0.5	11000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
	Phenanthrene	mg/kg	0.1 / 0.5	-	3.2	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	1.1	<0.5	-
	Pyrene	mg/kg	0.1 / 0.5	-	3.7	<0.5	<0.5	<0.5	1.7	<0.5	1.7	<0.5	2	<0.5	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	19	<1	<1	<1	9.2	<1	7.6	<1	9.4	<1	-
	Benzo(a)pyrene TEQ	mg/kg	-	40	2.0	-	-	-	1.7	-	1.7	-	1.7	-	-
Asbestos	Asbestos	-	-	Detect	ND	-	ND	ND	-	ND	ND	-	-	-	ND
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)
LocCode	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)
Sample_Depth_Range											
Sampled_Date-Time	25/07/2012	25/07/2012	25/07/2012	24/07/2012	24/07/2012	24/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012	24/07/2012
Matrix_Description											
SDG	89249-50	89249-50	89249-50	89247-48	89247-48	89247-48	92458-59	92458-59	92458-59	89247-48	89247-48

Chem_Group	ChemName	Units	LOR	HIL											
Inorganics	Moisture	%	0.5		-	-	-	-	-	-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	900	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	3600	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	240000	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	1500	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	730	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	400000	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	2700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99000	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	230	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	27000	<100	<100	<100	<100	150	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	38000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C6 - C9	mg/kg	10 / 20	260	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	20000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	27000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	38000	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	<1	<1	<1	4.3	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.4	<0.5	0.7	0.9	0.7	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	11000	<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	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6	<0.5	0.6	0.9	0.7	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	<1	<1	<1	<1	<1	39	<1	1.3	2.3	1.4	<1
	Benzo(a)pyrene TEQ	mg/kg	-	40	-	-	-	-	-	4.2	-	-	-	-	-
Asbestos	Asbestos	-	-	Detect	ND	-	-	ND	-	ND	ND	ND	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	-	-	-	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 3
Soil Analytical Results - Comparison Against Commercial/Industrial Health Investigation Levels (HIL D and HSL D)

Haymarket Precinct, Sydney NSW

Field_ID	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
LocCode	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
Sample_Depth_Range						
Sampled_Date-Time	24/07/2012	24/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012
Matrix_Description						
SDG	89247-48	89247-48	92455-57	92455-57	92455-57	92455-57

Chem_Group	ChemName	Units	LOR	HIL						
Inorganics	Moisture	%	0.5		-	-	-	-	-	-
Metals	Arsenic	mg/kg	2 / 3	3000	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	900	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	3600	-	-	-	-	-	-
	Copper	mg/kg	0.5	240000	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	1500	-	-	-	-	-	-
	Mercury	mg/kg	0.05	730	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	6000	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	400000	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	2700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	99000	<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
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	230	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	260	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	20000	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	27000	<100	<100	<100	570	<100	<100
	C34 - C40	mg/kg	100	38000	<100	<100	<100	540	<100	<100
	C6 - C9	mg/kg	10 / 20	260	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	20000	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	27000	<100	<100	<100	210	<100	<100
	C29 - C36	mg/kg	50 / 100	38000	<100	<100	<100	580	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	<100	<100	<100	790	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	2.8	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	5.8	1.1	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	6	1.8	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	<1	<1	<1	9.1	2.8	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	3.7	1.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	4	1.1	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	12	1.6	<0.5
	Fluorene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	0.8	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	2.7	1	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	11000	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	8.9	0.6	<0.5
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	11	1.8	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	4000	<1	<1	<1	68	13	<1
	Benzo(a)pyrene TEQ	mg/kg	-	40	-	-	-	8.3	2.8	-
Asbestos	Asbestos	-	-	Detect	-	-	ND	-	ND	-
VOC	4-Nitrophenol	mg/kg	0.5	LOR	-	-	-	-	-	-
	2-naphthylamine	mg/kg	0.5	LOR	-	-	-	-	-	-
	g-BHC (Lindane)	mg/kg	0.5	2.1	-	-	-	-	-	-
	Other VOC	mg/kg	-	LOR	-	-	-	-	-	-
Other SVOC	SVOC	mg/kg	-	LOR	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Residential and Open Space Uses (EIL/ESL B and C)

Haymarket Precinct, Sydney NSW

Field_ID	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5
LocCode	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5
Sample_Depth_Range																	
Sampled_Date-Time	7/06/2011	7/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	1/06/2011	1/06/2011	1/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	9/06/2011	9/06/2011	9/06/2011
Matrix_Description																	
SDG	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100639-1	SE100639-1	SE100639-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1
Chem_Group	ChemName	Units	LOR	EIL															
Metals	Arsenic	mg/kg	2 / 3	100	3	9	4	-	8	4	-	5	<3	5	<3	6	5	8	-	10	-
	Cadmium	mg/kg	0.3 / 0.4	-	0.3	<0.3	<0.3	-	<0.3	<0.3	-	0.3	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	-	0.8	-
	Chromium	mg/kg	0.3 / 5	260	9	16	11	-	13	13	-	16	20	13	13	14	11	16	-	9.3	-
	Copper	mg/kg	0.5	120	13	21	44	-	4.9	35	-	34	18	13	39	36	3.8	5.1	-	70	-
	Lead	mg/kg	1 / 5	1260	15	25	260	-	19	150	-	74	21	34	31	240	24	13	-	140	-
	Mercury	mg/kg	0.05	-	<0.05	0.05	0.13	-	<0.05	0.22	-	0.12	0.09	0.1	0.11	0.19	<0.05	<0.05	-	0.45	-
	Nickel	mg/kg	0.5 / 2.5 / 5	35	7.7	3.6	7.7	-	1.2	4.7	-	4.6	5.1	9.3	13	7.8	1	1.7	-	6.2	-
	Zinc	mg/kg	0.5 / 5	350	30	25	72	-	18	110	-	77	160	83	64	92	380	520	-	730	-
BTEX	Benzene	mg/kg	0.1 / 0.5	50	<0.1	<0.1	<1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	-
	Ethylbenzene	mg/kg	0.1 / 0.5	70	<0.1	<0.1	<1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	-
	Toluene	mg/kg	0.1	85	<0.1	<0.1	<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 / 1	-	<1	<1	<2	<1	<1	<1	-	<0.2	<1	-	<1	<0.2	<1	-	-	<1	-
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	<0.1	<0.5	-	<0.5	<0.1	<0.5	-	-	<0.5	-
	Xylene Total	mg/kg	0.3 / 1.5	105	<0.3	<0.3	<3	<0.3	<0.3	<0.3	-	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	-	<0.3	-
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	2800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Residential and Open Space Uses (EIL/ESL B and C)

Haymarket Precinct, Sydney NSW

BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m
BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m
	2.5	5.5	1-1.1	2.5-2.6													
9/06/2011	17/06/2011	17/06/2011	21/06/2011	21/06/2011	16/06/2011	16/06/2011	16/06/2011	16/06/2011	3/06/2011	3/06/2011	3/06/2011	3/06/2011	2/06/2011	2/06/2011	2/06/2011	2/06/2011	6/06/2011
SE100700-1	SE100711-1	SE100711-1	SE100739-1	SE100739-1	SE100735-1	SE100735-1	SE100735-1	SE100735-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1

Chem_Group	ChemName	Units	LOR																	
Metals	Arsenic	mg/kg	2 / 3	180	7	6	6	11	6	7	<3	16	4	-	23	28	4	4	-	<3	12
	Cadmium	mg/kg	0.3 / 0.4	<0.3	0.5	0.5	<0.3	0.5	0.6	0.6	<0.3	0.5	<0.3	-	0.4	0.4	<0.3	<0.3	-	<0.3	<0.3
	Chromium	mg/kg	0.3 / 5	17	18	14	12	31	14	11	9.5	13	7.4	-	16	11	7.5	14	-	6	10
	Copper	mg/kg	0.5	11	120	9.4	61	79	72	46	7.3	8.6	9.9	-	51	56	51	58	-	4.9	63
	Lead	mg/kg	1 / 5	49	170	19	110	300	240	140	15	13	15	-	93	98	15	27	-	6	47
	Mercury	mg/kg	0.05	0.21	1	0.06	0.74	2.2	4.9	0.44	0.07	<0.05	<0.05	-	0.55	0.37	<0.05	0.48	-	<0.05	0.15
	Nickel	mg/kg	0.5 / 2.5 / 5	11	14	6.8	3.7	14	6.7	2.7	3.5	2.5	11	-	11	7	6.6	22	-	0.9	5.6
	Zinc	mg/kg	0.5 / 5	18	340	130	100	100	340	110	19	27	38	-	160	110	32	50	-	1.9	91
BTEX	Benzene	mg/kg	0.1 / 0.5	<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	-	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	<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	-	<0.1	<0.1
	Toluene	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	<0.1	-	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2 / 1	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<0.2	<0.2	<0.2	-	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.1	<0.1	<0.1	-	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<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	<0.3	-	<0.3	<0.3
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

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BH4 1.0m	BH4 1.5m	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6
BH4 1.0m	BH4 1.5m	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6
6/06/2011	6/06/2011	6/06/2011	6/06/2011	14/06/2011	14/06/2011	14/06/2011	9/06/2011	9/06/2011	6/06/2011	9/06/2011	14/06/2011	15/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011
SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100735-1	SE100735-1	SE100735-1	SE100700-1	SE100700-1	SE100639-1	SE100700-1	SE100735-1	SE100735-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1

Chem_Group	ChemName	Units	LOR																	
Metals	Arsenic	mg/kg	2 / 3	-	-	14	<3	4	-	6	3	8	-	25	5	4	-	13	6	8	9
	Cadmium	mg/kg	0.3 / 0.4	-	-	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	0.6	0.8	0.3	-	0.5	<0.3	<0.3	0.3
	Chromium	mg/kg	0.3 / 5	-	-	12	12	9.8	-	11	13	6.4	-	13	12	12	-	29	15	13	9.7
	Copper	mg/kg	0.5	-	-	42	1.2	26	-	14	16	9.3	-	1.2	39	30	-	98	30	15	320
	Lead	mg/kg	1 / 5	-	-	110	7	57	-	37	12	15	-	12	130	66	-	540	75	31	190
	Mercury	mg/kg	0.05	-	-	0.64	<0.05	0.24	-	0.23	<0.05	0.41	-	<0.05	0.27	0.12	-	1.2	0.22	0.05	0.64
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	10	1.2	13	-	5.7	13	1.2	-	1.3	7.2	19	-	26	6.5	1.9	13
	Zinc	mg/kg	0.5 / 5	-	-	110	2.5	96	-	25	22	12	-	7.9	190	93	-	460	89	22	270
BTEX	Benzene	mg/kg	0.1 / 0.5	-	-	<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 / 0.5	-	-	<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	-	-	<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 / 1	-	-	<0.2	<1	<1	<0.2	<1	-	<0.2	-	<1	<1	<1	-	<0.2	<0.2	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	-	<0.1	<0.5	<0.5	<0.1	<0.5	-	<0.1	-	<0.5	<0.5	<0.5	-	<0.1	<0.1	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	-	-	<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
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
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EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9
EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9
10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	18/04/2012	18/04/2012	18/04/2012	24/04/2012	27/04/2012	27/04/2012	27/04/2012
SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE107686-1	SE107686-1	SE107686-1	SE107335-1	SE107335-1	SE107335-1	SE107686-1	SE107819-1	SE107819-1	SE107819-1

Chem_Group	ChemName	Units	LOR															
Metals	Arsenic	mg/kg	2 / 3	7	-	13	6	5	-	3	5	8	4	12	12	4	6	5	<3
	Cadmium	mg/kg	0.3 / 0.4	<0.3	-	<0.3	<0.3	<0.3	-	0.3	0.3	<0.3	<0.3	0.4	0.3	0.4	0.3	<0.3	<0.3
	Chromium	mg/kg	0.3 / 5	13	-	18	9.5	15	-	5.1	7.9	5.6	7.3	9.9	21	6.9	6.9	17	16
	Copper	mg/kg	0.5	18	-	110	7.3	12	-	51	580	5.8	23	41	63	98	2.3	13	8.6
	Lead	mg/kg	1 / 5	32	-	310	23	31	-	220	92	14	13	93	91	96	9	30	15
	Mercury	mg/kg	0.05	1	-	0.68	<0.05	0.07	-	0.89	1.3	0.07	0.07	0.26	0.18	0.13	<0.05	0.08	<0.05
	Nickel	mg/kg	0.5 / 2.5 / 5	3.5	-	11	1.3	4.6	-	12	7.3	1.6	5	16	4.8	11	<0.5	12	3.7
	Zinc	mg/kg	0.5 / 5	32	-	190	12	17	-	310	110	6	33	100	95	210	21	27	3.7
BTEX	Benzene	mg/kg	0.1 / 0.5	<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	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	<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	<0.1
	Toluene	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	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2 / 1	<1	-	<1	<1	<1	<1	<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 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<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 / 1.5	<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	<0.3	<0.3
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
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BH29_0.4-0.5	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)
BH29_0.4-0.5	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)
17/04/2012	17/04/2012	17/04/2012	27/04/2012	27/04/2012	27/04/2012	27/04/2012	24/04/2012	24/04/2012	24/04/2012	24/04/2012	12/12/2012	12/12/2012
SE107335-1	SE107335-1	SE107335-1	SE107819-1	SE107819-1	SE107819-1	SE107819-1	SE107686-1	SE107686-1	SE107686-1	SE107686-1	103789-90	103789-90

Chem_Group	ChemName	Units	LOR												
Metals	Arsenic	mg/kg	2 / 3	<3	4	3	<3	4	<3	9	<3	-	<3	16	4.6	<2
	Cadmium	mg/kg	0.3 / 0.4	0.3	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	22	8.9	4.7	11	11	9.7	260	4.9	-	7.6	12	5.6	7
	Copper	mg/kg	0.5	80	83	5.5	35	8.7	4.7	33	5.4	-	8.5	3.4	17	23
	Lead	mg/kg	1 / 5	24	230	6	51	18	27	19	11	-	16	14	58	44
	Mercury	mg/kg	0.05	0.3	2.1	<0.05	0.28	0.08	0.08	<0.05	<0.05	-	<0.05	<0.05	0.06	0.07
	Nickel	mg/kg	0.5 / 2.5 / 5	38	9.6	<0.5	31	3.2	2.1	25	3.6	-	6.2	4.1	11	7.3
	Zinc	mg/kg	0.5 / 5	71	310	3.5	89	23	32	9.4	22	-	33	9.9	250	280
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.4	<0.1	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	1.1	<0.2	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.3	<0.1	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	1.4	<0.3	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	-	-	-	-	-	-	-	-	-	-	-	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	<50	<50
	C16 - C34	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	<100	<100
	C34 - C40	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
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Haymarket Precinct, Sydney NSW

BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_(0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)
BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)
12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
103789-90	103789-90	103789-90	103789-90	103789-90	103787-103788		103787-103788		103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	-	-	2.8	4.1	-	<2	-	4.8	-	3.8	16
	Cadmium	mg/kg	0.3 / 0.4	-	-	<0.4	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	-	-	6.1	<5	-	<5	-	<5	-	21	24
	Copper	mg/kg	0.5	-	-	<5	5	-	75	-	17	-	24	<5
	Lead	mg/kg	1 / 5	-	-	13	7.6	-	5.6	-	40	-	190	63
	Mercury	mg/kg	0.05	-	-	<0.05	<0.05	-	<0.05	-	0.2	-	1.8	0.51
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	<5	<5	-	210	-	6.3	-	6.7	<5
	Zinc	mg/kg	0.5 / 5	-	-	78	140	-	90	-	26	-	70	30
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Toluene	mg/kg	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 / 1	<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	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	-	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	-	<20	-	<20	<20
	F2 (C10 - C16 - Naphthalene)	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

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Residential and Open Space Uses (EIL/ESL B and C)

Haymarket Precinct, Sydney NSW

BH119_(2.1-2.3m)	BH120_(0.03-0.13m)_A	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)
BH119_(2.1-2.3m)	BH120_(0.03-0.13m)_A	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)
12/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012
103787-103788	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	34	-	4	6.1	-	-	-	-	-	8.7	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	-	<0.4	<0.4	-	-	-	-	-	<0.4	-
	Chromium	mg/kg	0.3 / 5	35	-	110	6.7	-	-	-	-	-	42	-
	Copper	mg/kg	0.5	96	-	43	51	-	-	-	-	-	130	-
	Lead	mg/kg	1 / 5	530	-	6.2	250	-	-	-	-	-	79	-
	Mercury	mg/kg	0.05	4.9	-	<0.05	0.57	-	-	-	-	-	0.41	-
	Nickel	mg/kg	0.5 / 2.5 / 5	35	-	120	<5	-	-	-	-	-	51	-
	Zinc	mg/kg	0.5 / 5	220	-	79	190	-	-	-	-	-	120	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	<100	<100	<100	<100	<100	410	170	<100	<100	<100	<100
	C34 - C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Residential and Open Space Uses (EIL/ESL B and C)

Haymarket Precinct, Sydney NSW

BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1M)	BH122A_(1.5-1.6m)_A	BH122A_(1.5-1.6m)
BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1m)	BH122A_(1.5-1.6m)_A	BH122A_(1.5-1.6m)
18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
103797-99	103797-99	103797-99	103797-99	103797-99	103789-90	103789-90	103791-93		103791-93	103791-93

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	14	-	-	14	-	2.1	-	2.8	-	5.2	4.5
	Cadmium	mg/kg	0.3 / 0.4	<0.4	-	-	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	11	-	-	27	-	11	-	7.5	-	11	11
	Copper	mg/kg	0.5	93	-	-	350	-	20	-	29	-	26	26
	Lead	mg/kg	1 / 5	160	-	-	2700	-	35	-	47	-	56	52
	Mercury	mg/kg	0.05	0.59	-	-	3.4	-	0.06	-	0.06	-	0.12	0.16
	Nickel	mg/kg	0.5 / 2.5 / 5	14	-	-	62	-	8	-	<5	-	<5	<5
	Zinc	mg/kg	0.5 / 5	150	-	-	310	-	60	-	55	-	63	56
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<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	-	<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	-	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	-	<50	<50
	C16 - C34	mg/kg	100	<100	1800	680	490	<100	<100	<100	<100	-	<100	230
	C34 - C40	mg/kg	100	<100	320	<100	130	<100	<100	<100	<100	-	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Residential and Open Space Uses (EIL/ESL B and C)

Haymarket Precinct, Sydney NSW

BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)
BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)
13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
103791-93	103791-93	103791-93	103789-90	103789-90	103789-90	103789-90	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	5	<2	-	-	-	-	-	7.6	6.1	6.4	9.3
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	-	-	-	-	0.4	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	11	7.6	-	-	-	-	-	10	<5	<5	6.7
	Copper	mg/kg	0.5	48	6.9	-	-	-	-	-	50	26	32	46
	Lead	mg/kg	1 / 5	140	9.3	-	-	-	-	-	69	36	47	40
	Mercury	mg/kg	0.05	0.35	0.11	-	-	-	-	-	0.12	0.1	0.11	0.13
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	<5	-	-	-	-	-	11	<5	5.3	<5
	Zinc	mg/kg	0.5 / 5	81	<5	-	-	-	-	-	110	51	69	41
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	<50	<50	<50	60	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	<100	<100	<100	<100	<100	840	390	<100	180	180	<100
	C34 - C40	mg/kg	100	<100	<100	<100	<100	<100	100	<100	<100	<100	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Residential and Open Space Uses (EIL/ESL B and C)

Haymarket Precinct, Sydney NSW

BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.01-0.11M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A
BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.01-1.1M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A
13/12/2012	13/12/2012	13/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
103791-93	103791-93		103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	6.9	2.5	-	13	13	6.8	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	1	0.6	0.4	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	12	<5	-	12	11	8.5	-	-	-	-	-
	Copper	mg/kg	0.5	9.4	<5	-	92	140	59	-	-	-	-	-
	Lead	mg/kg	1 / 5	<5	<5	-	180	120	64	-	-	-	-	-
	Mercury	mg/kg	0.05	0.07	<0.05	-	0.22	0.26	0.23	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	<5	-	16	12	20	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	13	<5	-	240	170	94	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	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 / 1	<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	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	-	<50	<50	<50	300	1600	1300	<50	1600
	C16 - C34	mg/kg	100	<100	<100	-	<100	<100	<100	1100	2700	1900	140	2200
	C34 - C40	mg/kg	100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Residential and Open Space Uses (EIL/ESL B and C)

Haymarket Precinct, Sydney NSW

BH124_(4.6-4.8m)	BH125_(0.23-0.33m)_A	BH125_(0.23-0.33m)	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	
BH124_(4.6-4.8m)	BH125_(0.23-0.33m)_A	BH125_(0.23-0.33m)	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	
14/12/2012	11/12/2012	11/12/2012	11/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	12/12/2012	
103791-93	103786	103786	103786	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103787-103788	

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	-	2.9	3.6	5.1	-	<2	16	-	-	-	<2
	Cadmium	mg/kg	0.3 / 0.4	-	<0.4	<0.4	<0.4	-	<0.4	<0.4	-	-	-	<0.4
	Chromium	mg/kg	0.3 / 5	-	<5	<5	18	-	<5	15	-	-	-	<5
	Copper	mg/kg	0.5	-	26	39	43	-	5.8	19	-	-	-	15
	Lead	mg/kg	1 / 5	-	99	84	110	-	13	57	-	-	-	33
	Mercury	mg/kg	0.05	-	0.21	0.24	0.34	-	<0.05	0.62	-	-	-	0.3
	Nickel	mg/kg	0.5 / 2.5 / 5	-	<5	<5	5.3	-	<5	9.1	-	-	-	<5
	Zinc	mg/kg	0.5 / 5	-	93	74	77	-	12	220	-	-	-	29
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	1300	100	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	2000	1200	1000	<100	<100	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	<100	130	100	<100	<100	<100	<100	<100	<100	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Residential and Open Space Uses (EIL/ESL B and C)

Haymarket Precinct, Sydney NSW

BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)
BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)
12/12/2012	12/12/2012	12/12/2012	12/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012
103787-103788	103787-103788	103787-103788	103787-103788	103784-103785	103784-103785	103786	103786	103786	103786	103786

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	3.7	<2	3.5	25	<2	<2	3.6	5.2	4.4	<2	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	-
	Chromium	mg/kg	0.3 / 5	<5	<5	7.4	<5	<5	6.3	9.3	7.6	5.5	<5	-
	Copper	mg/kg	0.5	20	41	560	<5	64	55	28	43	42	<5	-
	Lead	mg/kg	1 / 5	68	95	710	9.7	11	6.8	85	190	160	<5	-
	Mercury	mg/kg	0.05	0.36	0.47	5.7	<0.05	<0.05	<0.05	0.17	0.55	0.55	<0.05	-
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	5.7	7.4	<5	130	120	15	14	15	<5	-
	Zinc	mg/kg	0.5 / 5	95	100	140	<5	71	67	93	140	140	<5	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	<100	<100	110	240	<100	<100	550	780	550	110	<100
	C34 - C40	mg/kg	100	<100	<100	<100	<100	<100	<100	760	400	390	170	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Residential and Open Space Uses (EIL/ESL B and C)

Haymarket Precinct, Sydney NSW

BH128_(0.28-0.38M)_A	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A
BH128_(0.28-0.38M)_A	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A
17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	10/12/2012	10/12/2012	11/12/2012
103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103784-103785	103784-103785	103787-103788

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	3.4	5.2	-	7.4	4.5	3.5	-	-	4.1	4.9	6.9
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	<0.4	<0.4	<0.4	-	-	<0.4	0.5	0.5
	Chromium	mg/kg	0.3 / 5	12	12	-	21	23	11	-	-	<5	16	7.1
	Copper	mg/kg	0.5	27	27	-	36	24	13	-	-	29	49	130
	Lead	mg/kg	1 / 5	89	96	-	430	200	93	-	-	52	150	410
	Mercury	mg/kg	0.05	0.18	0.27	-	1.2	1.5	0.54	-	-	0.43	0.68	4.5
	Nickel	mg/kg	0.5 / 2.5 / 5	5.6	5.8	-	12	8.2	<5	-	-	6.6	14	12
	Zinc	mg/kg	0.5 / 5	78	94	-	410	220	130	-	-	140	430	1700
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Residential and Open Space Uses (EIL/ESL B and C)

Haymarket Precinct, Sydney NSW

BH129_(1.0-1.1m)	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	
BH129_(1.0-1.1m)	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	
11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	25/07/2012	
103787-103788		103787-103788	103787-103788	103787-103788	103787-103788	92455-57	92455-57	92455-57	92455-57	89249-50	

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	9.6	-	9.3	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	0.6	-	1.2	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	6.9	-	10	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	150	-	110	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	370	-	330	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4.3	-	3	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	14	-	11	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	1700	-	2200	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	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 / 1	<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	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	<100	-	<100	<100	<100	<100	580	940	<100	<100	<100
	C34 - C40	mg/kg	100	<100	-	<100	<100	<100	<100	110	230	<100	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Residential and Open Space Uses (EIL/ESL B and C)

Haymarket Precinct, Sydney NSW

CBH11_(1.0-1.1m)	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)
CBH11_(1.0-1.1m)	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)
26/07/2012	26/07/2012	26/07/2012	25/07/2012	25/07/2012	25/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012	25/07/2012
92458-59	92458-59	92458-59	89249-50	89249-50	89249-50	92458-59	92458-59	92458-59	92458-59	89249-50

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	58	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	710	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	150	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 4
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Residential and Open Space Uses (EIL/ESL B and C)

Haymarket Precinct, Sydney NSW

CBH6_(1.0-1.1m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)
CBH6_(1.0-1.1m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)
25/07/2012	25/07/2012	25/07/2012	25/07/2012	24/07/2012	24/07/2012	24/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012
89249-50	89249-50	89249-50	89249-50	89247-48	89247-48	89247-48	92458-59	92458-59	92458-59	89247-48

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	-	<0.5	<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	<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	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	-	<100	<100	<100	<100	150	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

coffey environments
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Table 4
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Residential and Open Space Uses (EIL/ESL B and C)

Haymarket Precinct, Sydney NSW

CBH8_(1.5-1.6m)	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
CBH8_(1.5-1.6m)	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
24/07/2012	24/07/2012	24/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012
89247-48	89247-48	89247-48	92455-57	92455-57	92455-57	92455-57

Chem_Group	ChemName	Units	LOR							
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<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
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	<100	<100	<100	<100	570	<100	<100
	C34 - C40	mg/kg	100	<100	<100	<100	<100	540	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

Field_ID	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5
LocCode	BH1 1.0	BH1 3.0	BH10 1.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	BH11 0.1m	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5	BH12 2.0	BH12 3.0	BH13 1.0	BH13 1.5	BH13 2.5
Sample_Depth_Range																	
Sampled_Date-Time	7/06/2011	7/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	1/06/2011	1/06/2011	1/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	9/06/2011	9/06/2011	9/06/2011
Matrix_Description																	
SDG	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100639-1	SE100639-1	SE100639-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100700-1

Chem_Group	ChemName	Units	LOR	EIL																	
Metals	Arsenic	mg/kg	2 / 3	160	3	9	4	-	8	4	-	5	<3	5	<3	6	5	8	-	10	-
	Cadmium	mg/kg	0.3 / 0.4	-	0.3	<0.3	<0.3	-	<0.3	<0.3	-	0.3	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	-	0.8	-
	Chromium	mg/kg	0.3 / 5	430	9	16	11	-	13	13	-	16	20	13	13	14	11	16	-	9.3	-
	Copper	mg/kg	0.5	160	13	21	44	-	4.9	35	-	34	18	13	39	36	3.8	5.1	-	70	-
	Lead	mg/kg	1 / 5	1960	15	25	260	-	19	150	-	74	21	34	31	240	24	13	-	140	-
	Mercury	mg/kg	0.05	-	<0.05	0.05	0.13	-	<0.05	0.22	-	0.12	0.09	0.1	0.11	0.19	<0.05	<0.05	-	0.45	-
	Nickel	mg/kg	0.5 / 2.5 / 5	60	7.7	3.6	7.7	-	1.2	4.7	-	4.6	5.1	9.3	13	7.8	1	1.7	-	6.2	-
	Zinc	mg/kg	0.5 / 5	480	30	25	72	-	18	110	-	77	160	83	64	92	380	520	-	730	-
BTEX	Benzene	mg/kg	0.1 / 0.5	75	<0.1	<0.1	<1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	-
	Ethylbenzene	mg/kg	0.1 / 0.5	165	<0.1	<0.1	<1	<0.1	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	<0.1	-
	Toluene	mg/kg	0.1	135	<0.1	<0.1	<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 / 1	-	<1	<1	<2	<1	<1	<1	-	<0.2	<1	-	<1	<0.2	<1	-	-	<1	-
	Xylene (o)	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	-	<0.1	<0.5	-	<0.5	<0.1	<0.5	-	-	<0.5	-
	Xylene Total	mg/kg	0.3 / 1.5	180	<0.3	<0.3	<3	<0.3	<0.3	<0.3	-	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	-	<0.3	-
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	215	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	1700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	3300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m
BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 1.5m	BH2 2.5m	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 2.5m	BH3 5.5m	BH4 0.5m
	2.5	5.5	1-1.1	2.5-2.6													
9/06/2011	17/06/2011	17/06/2011	21/06/2011	21/06/2011	16/06/2011	16/06/2011	16/06/2011	16/06/2011	3/06/2011	3/06/2011	3/06/2011	3/06/2011	2/06/2011	2/06/2011	2/06/2011	2/06/2011	6/06/2011
SE100700-1	SE100711-1	SE100711-1	SE100739-1	SE100739-1	SE100735-1	SE100735-1	SE100735-1	SE100735-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1

Chem_Group	ChemName	Units	LOR																	
Metals	Arsenic	mg/kg	2 / 3	180	7	6	6	11	6	7	<3	16	4	-	23	28	4	4	-	<3	12
	Cadmium	mg/kg	0.3 / 0.4	<0.3	0.5	0.5	<0.3	0.5	0.6	0.6	<0.3	0.5	<0.3	-	0.4	0.4	<0.3	<0.3	-	<0.3	<0.3
	Chromium	mg/kg	0.3 / 5	17	18	14	12	31	14	11	9.5	13	7.4	-	16	11	7.5	14	-	6	10
	Copper	mg/kg	0.5	11	120	9.4	61	79	72	46	7.3	8.6	9.9	-	51	56	51	58	-	4.9	63
	Lead	mg/kg	1 / 5	49	170	19	110	300	240	140	15	13	15	-	93	98	15	27	-	6	47
	Mercury	mg/kg	0.05	0.21	1	0.06	0.74	2.2	4.9	0.44	0.07	<0.05	<0.05	-	0.55	0.37	<0.05	0.48	-	<0.05	0.15
	Nickel	mg/kg	0.5 / 2.5 / 5	11	14	6.8	3.7	14	6.7	2.7	3.5	2.5	11	-	11	7	6.6	22	-	0.9	5.6
	Zinc	mg/kg	0.5 / 5	18	340	130	100	100	340	110	19	27	38	-	160	110	32	50	-	1.9	91
BTEX	Benzene	mg/kg	0.1 / 0.5	<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	-	<0.1	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	<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	-	<0.1	<0.1
	Toluene	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	<0.1	-	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2 / 1	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<0.2	<0.2	<0.2	-	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.1	<0.1	<0.1	-	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<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	<0.3	-	<0.3	<0.3
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

BH4 1.0m	BH4 1.5m	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6
BH4 1.0m	BH4 1.5m	BH4 2.0m	BH4 5.5m	BH5_1.5-1.6	BH5_2.5-2.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 2.5m	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6	EB1/1.0-1.1	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6
6/06/2011	6/06/2011	6/06/2011	6/06/2011	14/06/2011	14/06/2011	14/06/2011	9/06/2011	9/06/2011	6/06/2011	9/06/2011	14/06/2011	15/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011
SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100735-1	SE100735-1	SE100735-1	SE100700-1	SE100700-1	SE100639-1	SE100700-1	SE100735-1	SE100735-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1

Chem_Group	ChemName	Units	LOR																	
Metals	Arsenic	mg/kg	2 / 3	-	-	14	<3	4	-	6	3	8	-	25	5	4	-	13	6	8	9
	Cadmium	mg/kg	0.3 / 0.4	-	-	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	0.6	0.8	0.3	-	0.5	<0.3	<0.3	0.3
	Chromium	mg/kg	0.3 / 5	-	-	12	12	9.8	-	11	13	6.4	-	13	12	12	-	29	15	13	9.7
	Copper	mg/kg	0.5	-	-	42	1.2	26	-	14	16	9.3	-	1.2	39	30	-	98	30	15	320
	Lead	mg/kg	1 / 5	-	-	110	7	57	-	37	12	15	-	12	130	66	-	540	75	31	190
	Mercury	mg/kg	0.05	-	-	0.64	<0.05	0.24	-	0.23	<0.05	0.41	-	<0.05	0.27	0.12	-	1.2	0.22	0.05	0.64
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	10	1.2	13	-	5.7	13	1.2	-	1.3	7.2	19	-	26	6.5	1.9	13
	Zinc	mg/kg	0.5 / 5	-	-	110	2.5	96	-	25	22	12	-	7.9	190	93	-	460	89	22	270
BTEX	Benzene	mg/kg	0.1 / 0.5	-	-	<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 / 0.5	-	-	<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	-	-	<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 / 1	-	-	<0.2	<1	<1	<0.2	<1	-	<0.2	-	<1	<1	<1	-	<0.2	<0.2	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	-	-	<0.1	<0.5	<0.5	<0.1	<0.5	-	<0.1	-	<0.5	<0.5	<0.5	-	<0.1	<0.1	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	-	-	<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
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
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Haymarket Precinct, Sydney NSW

EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9
EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.0-1.1	EB3/1.6-1.7	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9
10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	18/04/2012	18/04/2012	18/04/2012	24/04/2012	27/04/2012	27/04/2012	27/04/2012
SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE107686-1	SE107686-1	SE107686-1	SE107335-1	SE107335-1	SE107335-1	SE107686-1	SE107819-1	SE107819-1	SE107819-1

Chem_Group	ChemName	Units	LOR															
Metals	Arsenic	mg/kg	2 / 3	7	-	13	6	5	-	3	5	8	4	12	12	4	6	5	<3
	Cadmium	mg/kg	0.3 / 0.4	<0.3	-	<0.3	<0.3	<0.3	-	0.3	0.3	<0.3	<0.3	0.4	0.3	0.4	0.3	<0.3	<0.3
	Chromium	mg/kg	0.3 / 5	13	-	18	9.5	15	-	5.1	7.9	5.6	7.3	9.9	21	6.9	6.9	17	16
	Copper	mg/kg	0.5	18	-	110	7.3	12	-	51	580	5.8	23	41	63	98	2.3	13	8.6
	Lead	mg/kg	1 / 5	32	-	310	23	31	-	220	92	14	13	93	91	96	9	30	15
	Mercury	mg/kg	0.05	1	-	0.68	<0.05	0.07	-	0.89	1.3	0.07	0.07	0.26	0.18	0.13	<0.05	0.08	<0.05
	Nickel	mg/kg	0.5 / 2.5 / 5	3.5	-	11	1.3	4.6	-	12	7.3	1.6	5	16	4.8	11	<0.5	12	3.7
	Zinc	mg/kg	0.5 / 5	32	-	190	12	17	-	310	110	6	33	100	95	210	21	27	3.7
BTEX	Benzene	mg/kg	0.1 / 0.5	<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	<0.1
	Ethylbenzene	mg/kg	0.1 / 0.5	<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	<0.1
	Toluene	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	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2 / 1	<1	-	<1	<1	<1	<1	<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 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<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 / 1.5	<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	<0.3	<0.3
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C16 - C34	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C34 - C40	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

BH29_0.4-0.5	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)
BH29_0.4-0.5	BH29_0.9-1.0	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_0.3-0.5	NBH24_1.5-1.95	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)
17/04/2012	17/04/2012	17/04/2012	27/04/2012	27/04/2012	27/04/2012	27/04/2012	24/04/2012	24/04/2012	24/04/2012	24/04/2012	12/12/2012	12/12/2012
SE107335-1	SE107335-1	SE107335-1	SE107819-1	SE107819-1	SE107819-1	SE107819-1	SE107686-1	SE107686-1	SE107686-1	SE107686-1	103789-90	103789-90

Chem_Group	ChemName	Units	LOR												
Metals	Arsenic	mg/kg	2 / 3	<3	4	3	<3	4	<3	9	<3	-	<3	16	4.6	<2
	Cadmium	mg/kg	0.3 / 0.4	0.3	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	22	8.9	4.7	11	11	9.7	260	4.9	-	7.6	12	5.6	7
	Copper	mg/kg	0.5	80	83	5.5	35	8.7	4.7	33	5.4	-	8.5	3.4	17	23
	Lead	mg/kg	1 / 5	24	230	6	51	18	27	19	11	-	16	14	58	44
	Mercury	mg/kg	0.05	0.3	2.1	<0.05	0.28	0.08	0.08	<0.05	<0.05	-	<0.05	<0.05	0.06	0.07
	Nickel	mg/kg	0.5 / 2.5 / 5	38	9.6	<0.5	31	3.2	2.1	25	3.6	-	6.2	4.1	11	7.3
	Zinc	mg/kg	0.5 / 5	71	310	3.5	89	23	32	9.4	22	-	33	9.9	250	280
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.4	<0.1	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.5	<0.5
	Xylene (m & p)	mg/kg	0.2 / 1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	1.1	<0.2	<1	<1
	Xylene (o)	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	0.3	<0.1	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	-	1.4	<0.3	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	-	-	-	-	-	-	-	-	-	-	-	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	<50	<50
	C16 - C34	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	<100	<100
	C34 - C40	mg/kg	100	-	-	-	-	-	-	-	-	-	-	-	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_(0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)
BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)	BH119_0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)
12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
103789-90	103789-90	103789-90	103789-90	103789-90	103787-103788		103787-103788		103787-103788	103787-103788

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	-	-	2.8	4.1	-	<2	-	4.8	-	3.8	16
	Cadmium	mg/kg	0.3 / 0.4	-	-	<0.4	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	-	-	6.1	<5	-	<5	-	<5	-	21	24
	Copper	mg/kg	0.5	-	-	<5	5	-	75	-	17	-	24	<5
	Lead	mg/kg	1 / 5	-	-	13	7.6	-	5.6	-	40	-	190	63
	Mercury	mg/kg	0.05	-	-	<0.05	<0.05	-	<0.05	-	0.2	-	1.8	0.51
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	<5	<5	-	210	-	6.3	-	6.7	<5
	Zinc	mg/kg	0.5 / 5	-	-	78	140	-	90	-	26	-	70	30
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5
	Toluene	mg/kg	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 / 1	<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	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	-	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	-	<20	-	<20	<20
	F2 (C10 - C16 - Naphthalene)	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

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

BH119_(2.1-2.3m)	BH120_(0.03-0.13m)_A	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)
BH119_(2.1-2.3m)	BH120_(0.03-0.13m)_A	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)
12/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012
103787-103788	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	34	-	4	6.1	-	-	-	-	-	8.7	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	-	<0.4	<0.4	-	-	-	-	-	<0.4	-
	Chromium	mg/kg	0.3 / 5	35	-	110	6.7	-	-	-	-	-	42	-
	Copper	mg/kg	0.5	96	-	43	51	-	-	-	-	-	130	-
	Lead	mg/kg	1 / 5	530	-	6.2	250	-	-	-	-	-	79	-
	Mercury	mg/kg	0.05	4.9	-	<0.05	0.57	-	-	-	-	-	0.41	-
	Nickel	mg/kg	0.5 / 2.5 / 5	35	-	120	<5	-	-	-	-	-	51	-
	Zinc	mg/kg	0.5 / 5	220	-	79	190	-	-	-	-	-	120	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	<100	<100	<100	<100	<100	410	170	<100	<100	<100	<100
	C34 - C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1M)	BH122A_(1.5-1.6m)_A	BH122A_(1.5-1.6m)
BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1m)	BH122A_(1.5-1.6m)_A	BH122A_(1.5-1.6m)
18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
103797-99	103797-99	103797-99	103797-99	103797-99	103789-90	103789-90	103791-93		103791-93	103791-93

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	14	-	-	14	-	2.1	-	2.8	-	5.2	4.5
	Cadmium	mg/kg	0.3 / 0.4	<0.4	-	-	<0.4	-	<0.4	-	<0.4	-	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	11	-	-	27	-	11	-	7.5	-	11	11
	Copper	mg/kg	0.5	93	-	-	350	-	20	-	29	-	26	26
	Lead	mg/kg	1 / 5	160	-	-	2700	-	35	-	47	-	56	52
	Mercury	mg/kg	0.05	0.59	-	-	3.4	-	0.06	-	0.06	-	0.12	0.16
	Nickel	mg/kg	0.5 / 2.5 / 5	14	-	-	62	-	8	-	<5	-	<5	<5
	Zinc	mg/kg	0.5 / 5	150	-	-	310	-	60	-	55	-	63	56
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<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	-	<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	-	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	-	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	-	<50	<50
	C16 - C34	mg/kg	100	<100	1800	680	490	<100	<100	<100	<100	-	<100	230
	C34 - C40	mg/kg	100	<100	320	<100	130	<100	<100	<100	<100	-	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)
BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)
13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
103791-93	103791-93	103791-93	103789-90	103789-90	103789-90	103789-90	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	5	<2	-	-	-	-	-	7.6	6.1	6.4	9.3
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	-	-	-	-	0.4	<0.4	<0.4	<0.4
	Chromium	mg/kg	0.3 / 5	11	7.6	-	-	-	-	-	10	<5	<5	6.7
	Copper	mg/kg	0.5	48	6.9	-	-	-	-	-	50	26	32	46
	Lead	mg/kg	1 / 5	140	9.3	-	-	-	-	-	69	36	47	40
	Mercury	mg/kg	0.05	0.35	0.11	-	-	-	-	-	0.12	0.1	0.11	0.13
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	<5	-	-	-	-	-	11	<5	5.3	<5
	Zinc	mg/kg	0.5 / 5	81	<5	-	-	-	-	-	110	51	69	41
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	<50	<50	<50	60	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	<100	<100	<100	<100	<100	840	390	<100	180	180	<100
	C34 - C40	mg/kg	100	<100	<100	<100	<100	<100	100	<100	<100	<100	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.01-0.11M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A
BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.01-1.1M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A
13/12/2012	13/12/2012	13/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012
103791-93	103791-93		103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	6.9	2.5	-	13	13	6.8	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	1	0.6	0.4	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	12	<5	-	12	11	8.5	-	-	-	-	-
	Copper	mg/kg	0.5	9.4	<5	-	92	140	59	-	-	-	-	-
	Lead	mg/kg	1 / 5	<5	<5	-	180	120	64	-	-	-	-	-
	Mercury	mg/kg	0.05	0.07	<0.05	-	0.22	0.26	0.23	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	<5	-	16	12	20	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	13	<5	-	240	170	94	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	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 / 1	<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	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	-	<50	<50	<50	300	1600	1300	<50	1600
	C16 - C34	mg/kg	100	<100	<100	-	<100	<100	<100	1100	2700	1900	140	2200
	C34 - C40	mg/kg	100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

BH124_(4.6-4.8m)	BH125_(0.23-0.33m)_A	BH125_(0.23-0.33m)	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	
BH124_(4.6-4.8m)	BH125_(0.23-0.33m)_A	BH125_(0.23-0.33m)	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	
14/12/2012	11/12/2012	11/12/2012	11/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	12/12/2012	
103791-93	103786	103786	103786	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103787-103788	

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	-	2.9	3.6	5.1	-	<2	16	-	-	-	<2
	Cadmium	mg/kg	0.3 / 0.4	-	<0.4	<0.4	<0.4	-	<0.4	<0.4	-	-	-	<0.4
	Chromium	mg/kg	0.3 / 5	-	<5	<5	18	-	<5	15	-	-	-	<5
	Copper	mg/kg	0.5	-	26	39	43	-	5.8	19	-	-	-	15
	Lead	mg/kg	1 / 5	-	99	84	110	-	13	57	-	-	-	33
	Mercury	mg/kg	0.05	-	0.21	0.24	0.34	-	<0.05	0.62	-	-	-	0.3
	Nickel	mg/kg	0.5 / 2.5 / 5	-	<5	<5	5.3	-	<5	9.1	-	-	-	<5
	Zinc	mg/kg	0.5 / 5	-	93	74	77	-	12	220	-	-	-	29
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	1300	100	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	2000	1200	1000	<100	<100	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	<100	130	100	<100	<100	<100	<100	<100	<100	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)
BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)
12/12/2012	12/12/2012	12/12/2012	12/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012
103787-103788	103787-103788	103787-103788	103787-103788	103784-103785	103784-103785	103786	103786	103786	103786	103786

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	3.7	<2	3.5	25	<2	<2	3.6	5.2	4.4	<2	-
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	-
	Chromium	mg/kg	0.3 / 5	<5	<5	7.4	<5	<5	6.3	9.3	7.6	5.5	<5	-
	Copper	mg/kg	0.5	20	41	560	<5	64	55	28	43	42	<5	-
	Lead	mg/kg	1 / 5	68	95	710	9.7	11	6.8	85	190	160	<5	-
	Mercury	mg/kg	0.05	0.36	0.47	5.7	<0.05	<0.05	<0.05	0.17	0.55	0.55	<0.05	-
	Nickel	mg/kg	0.5 / 2.5 / 5	<5	5.7	7.4	<5	130	120	15	14	15	<5	-
	Zinc	mg/kg	0.5 / 5	95	100	140	<5	71	67	93	140	140	<5	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	<100	<100	110	240	<100	<100	550	780	550	110	<100
	C34 - C40	mg/kg	100	<100	<100	<100	<100	<100	<100	760	400	390	170	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

BH128_(0.28-0.38M)_A	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A
BH128_(0.28-0.38M)_A	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_A	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A
17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	10/12/2012	10/12/2012	11/12/2012
103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103784-103785	103784-103785	103787-103788

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	3.4	5.2	-	7.4	4.5	3.5	-	-	4.1	4.9	6.9
	Cadmium	mg/kg	0.3 / 0.4	<0.4	<0.4	-	<0.4	<0.4	<0.4	-	-	<0.4	0.5	0.5
	Chromium	mg/kg	0.3 / 5	12	12	-	21	23	11	-	-	<5	16	7.1
	Copper	mg/kg	0.5	27	27	-	36	24	13	-	-	29	49	130
	Lead	mg/kg	1 / 5	89	96	-	430	200	93	-	-	52	150	410
	Mercury	mg/kg	0.05	0.18	0.27	-	1.2	1.5	0.54	-	-	0.43	0.68	4.5
	Nickel	mg/kg	0.5 / 2.5 / 5	5.6	5.8	-	12	8.2	<5	-	-	6.6	14	12
	Zinc	mg/kg	0.5 / 5	78	94	-	410	220	130	-	-	140	430	1700
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

coffey environments
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Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

BH129_(1.0-1.1m)	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)
BH129_(1.0-1.1m)	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)
11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	25/07/2012
103787-103788		103787-103788	103787-103788	103787-103788	103787-103788	92455-57	92455-57	92455-57	92455-57	89249-50

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	9.6	-	9.3	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	0.6	-	1.2	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	6.9	-	10	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	150	-	110	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	370	-	330	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4.3	-	3	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	14	-	11	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	1700	-	2200	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	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 / 1	<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	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	-	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	<100	-	<100	<100	<100	<100	580	940	<100	<100	<100
	C34 - C40	mg/kg	100	<100	-	<100	<100	<100	<100	110	230	<100	<100	<100

coffey environments
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Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

CBH11_(1.0-1.1m)	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)
CBH11_(1.0-1.1m)	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)_1	CBH5A_(2.0-2.1m)_1	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)
26/07/2012	26/07/2012	26/07/2012	25/07/2012	25/07/2012	25/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012	25/07/2012
92458-59	92458-59	92458-59	89249-50	89249-50	89249-50	92458-59	92458-59	92458-59	92458-59	89249-50

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<0.5	<0.5	<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	<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	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	58	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	710	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	150	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

CBH6_(1.0-1.1m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)
CBH6_(1.0-1.1m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_1	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)
25/07/2012	25/07/2012	25/07/2012	25/07/2012	24/07/2012	24/07/2012	24/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012
89249-50	89249-50	89249-50	89249-50	89247-48	89247-48	89247-48	92458-59	92458-59	92458-59	89247-48

Chem_Group	ChemName	Units	LOR										
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	-	<0.5	<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	<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	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	-	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	-	<100	<100	<100	<100	150	<100	<100	<100	<100	<100
	C34 - C40	mg/kg	100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

coffey environments
SPECIALISTS IN ENVIRONMENTAL, SOCIAL AND SAFETY PERFORMANCE

Table 5
Soil Analytical Results - Comparison Against Health Ecological Investigation Levels for Commercial/Industrial Uses (EIL/ESL D)

Haymarket Precinct, Sydney NSW

CBH8_(1.5-1.6m)	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
CBH8_(1.5-1.6m)	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
24/07/2012	24/07/2012	24/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012
89247-48	89247-48	89247-48	92455-57	92455-57	92455-57	92455-57

Chem_Group	ChemName	Units	LOR							
Metals	Arsenic	mg/kg	2 / 3	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3 / 0.4	-	-	-	-	-	-	-
	Chromium	mg/kg	0.3 / 5	-	-	-	-	-	-	-
	Copper	mg/kg	0.5	-	-	-	-	-	-	-
	Lead	mg/kg	1 / 5	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5 / 2.5 / 5	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5 / 5	-	-	-	-	-	-	-
BTEX	Benzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.1	<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
	Xylene (o)	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	0.3 / 1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
TPH	F1 (C6 - C9 - Total BTEX)	mg/kg	20	<20	<20	<20	<20	<20	<20	<20
	F2 (C10 - C16 - Naphthalene)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50
	C16 - C34	mg/kg	100	<100	<100	<100	<100	570	<100	<100
	C34 - C40	mg/kg	100	<100	<100	<100	<100	540	<100	<100

Table 6
Groundwater Analytical Results

Haymarket Precinct, Sydney

Sample ID	BH1	BH12	BH13	MW25	MW30	MW06	MW09	MW25
LocCode								
Well ID	BH1	BH12	BH13	MW25	MW30	MW06	MW09	MW25
Sample Date	4/07/2011	12/07/2011	12/07/2011	9/05/2012	9/05/2012	2/08/2012	2/08/2012	2/08/2012

Chemical Group	Chemical Name	Units	LOR	GIL							
Inorganics	pH (Lab)	pH_Units	0		-	-	-	7	7.4	-	-	-
	TDS	mg/L	10		-	-	-	18,900	19,700	-	-	-
Metals	Arsenic (Filtered)	mg/L	0.001/0.002	0.0023	0.002	<0.001	0.008	<0.002	<0.002	-	-	-
	Cadmium (Filtered)	mg/L	0.0001	0.0007	0.0002	<0.0001	<0.0001	<0.001	<0.001	-	-	-
	Chromium Total (Filtered)	mg/L	0.001/0.01	0.0044	0.007	<0.001	<0.001	<0.01	<0.01	-	-	-
	Copper (Filtered)	mg/L	0.001	0.0013	0.021	0.004	0.003	<0.001	0.001	-	-	-
	Lead (Filtered)	mg/L	0.001	0.0044	0.009	<0.001	<0.001	<0.001	<0.001	-	-	-
	Mercury	mg/L	0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-
	Nickel (Filtered)	mg/L	0.01/0.001	0.007	0.003	0.003	0.003	<0.01	<0.01	-	-	-
	Zinc (Filtered)	mg/L	0.005	0.015	0.53	0.25	0.16	0.011	0.02	-	-	-
BTEX	Benzene	µg/L	0.5/1/5	500	<0.5	<0.5	<0.5	<5	<0.5	<1	<1	<1
	Ethylbenzene	µg/L	0.5/1/5	5	<0.5	0.5	<0.5	<5	<0.5	<1	<1	<1
	Toluene	µg/L	0.5/1/5	180	<0.5	13	<0.5	<5	<0.5	<1	<1	<1
	Xylene (m & p)	µg/L	1/2/10	75	<1	3	<1	<10	<1	<2	<2	<2
	Xylene (o)	µg/L	0.5/1/5	350	<0.5	1.4	<0.5	<5	<0.5	<1	<1	<1
	Xylene Total	µg/L	1.5/3	-	<1.5	4	<1.5	<15	<1.5	<3	<3	<3
TPH	TPH C6 - C9	µg/L	40	40	<40	<40	<40	<400	<40	<20	<20	<20
	TPH C10 - C14	µg/L	100	100	<100	<100	<100	<100	<100	<50	<50	<50
	TPH C15 - C28	µg/L	200	200	<200	<200	<200	<200	<200	<100	<100	<100
	TPH C29 - C36	µg/L	200	200	<200	<200	<200	<200	<200	<100	<100	<100
PAH	Acenaphthene	µg/L	0.01/0.1/1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1
	Acenaphthylene	µg/L	0.01/0.1/1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1
	Anthracene	µg/L	0.01/0.1/1	0.01	<0.1	<0.1	<0.1	0.1	<0.1	<1	<1	<1
	Benzo(a)anthracene	µg/L	0.01/0.1/1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1
	Benzo(a)pyrene	µg/L	0.01/0.1/1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1
	Benzo(b)fluoranthene	µg/L	0.01/0.1/2		<0.1	<0.1	<0.1	<0.1	<0.1	<2	<2	<2
	Benzo(g,h,i)perylene	µg/L	0.01/0.1/1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1
	Benzo(k)fluoranthene	µg/L	0.01/0.1/2		<0.1	<0.1	<0.1	<0.1	<0.1	<2	<2	<2
	Chrysene	µg/L	0.01/0.1/1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1
	Dibenz(a,h)anthracene	µg/L	0.01/0.1/1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1
	Fluoranthene	µg/L	0.01/0.1/1	1	<0.1	<0.1	<0.1	0.2	<0.1	<1	<1	<1
	Fluorene	µg/L	0.01/0.1/1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1
	Indeno(1,2,3-c,d)pyrene	µg/L	0.01/0.1/1		<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1
	Naphthalene	µg/L	0.01/0.1/1	50	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<1	<1
	Phenanthrene	µg/L	0.01/0.1/1	0.6	<0.1	<0.1	<0.1	0.4	<0.1	<1	<1	<1
	Pyrene	µg/L	0.01/0.1/1		<0.1	<0.1	<0.1	0.1	<0.1	<1	<1	<1
VOC									<LOR			
SVOC									<LOR			

Table 6
Groundwater Analytical Results

Haymarket Precinct, Sydney

Sample ID					MW30	MW6	MW9	MW25	MW30	MW120
LocCode										
Well ID					MW30	MW6	MW9	MW25	MW30	MW120
Sample Date					2/08/2012	10/01/2013	8/01/2013	8/01/2013	9/01/2013	10/01/2013
Chemical Group	**Chemical Name**	**Units**	**LOR**	**GIL**						
Inorganics	pH (Lab)	pH_Units	0		-	-	-	-	-	-
	TDS	mg/L	10		-	-	-	-	-	-
Metals	Arsenic (Filtered)	mg/L	0.001/0.002	0.0023	-	<0.001	0.001	0.008	<0.001	0.005
	Cadmium (Filtered)	mg/L	0.0001	0.0007	-	0.0002	<0.0001	0.0001	0.0003	0.0002
	Chromium Total (Filtered)	mg/L	0.001/0.01	0.0044	-	<0.001	<0.001	<0.001	<0.001	<0.001
	Copper (Filtered)	mg/L	0.001	0.0013	-	0.001	<0.001	<0.001	0.001	0.002
	Lead (Filtered)	mg/L	0.001	0.0044	-	<0.001	<0.001	<0.001	<0.001	<0.001
	Mercury	mg/L	0.0001	0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Nickel (Filtered)	mg/L	0.01/0.001	0.007	-	<0.001	<0.001	0.002	<0.001	<0.001
	Zinc (Filtered)	mg/L	0.005	0.015	-	<0.005	<0.005	<0.005	0.012	<0.005
BTEX	Benzene	µg/L	0.5/1/5	500	<1	<1	<1	<1	<1	<1
	Ethylbenzene	µg/L	0.5/1/5	5	<1	<1	<1	<1	<1	<1
	Toluene	µg/L	0.5/1/5	180	<1	<1	<1	<1	<1	<1
	Xylene (m & p)	µg/L	1/2/10	75	<2	<2	<2	<2	<2	<2
	Xylene (o)	µg/L	0.5/1/5	350	<1	<1	<1	<1	<1	<1
	Xylene Total	µg/L	1.5/3	-	<3	<3	<3	<3	<3	<3
TPH	TPH C6 - C9	µg/L	40	40	<20	<20	<20	<20	<20	30
	TPH C10 - C14	µg/L	100	100	<50	<50	<50	<50	<50	<50
	TPH C15 - C28	µg/L	200	200	<100	<100	<100	<100	<100	<100
	TPH C29 - C36	µg/L	200	200	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	µg/L	0.01/0.1/1		<1	<0.01	0.02	0.02	<0.01	<0.01
	Acenaphthylene	µg/L	0.01/0.1/1		<1	<0.01	<0.01	<0.01	<0.01	<0.01
	Anthracene	µg/L	0.01/0.1/1	0.01	<1	<0.01	0.05	0.01	0.01	<0.01
	Benzo(a)anthracene	µg/L	0.01/0.1/1		<1	<0.01	0.01	0.01	0.01	<0.01
	Benzo(a)pyrene	µg/L	0.01/0.1/1	0.1	<1	<0.01	<0.01	<0.01	0.01	<0.01
	Benzo(b)fluoranthene	µg/L	0.01/0.1/2		<2	<0.02	<0.02	<0.02	0.02	<0.02
	Benzo(g,h,i)perylene	µg/L	0.01/0.1/1		<1	<0.01	<0.01	<0.01	<0.01	<0.01
	Benzo(k)fluoranthene	µg/L	0.01/0.1/2		<2	<0.02	<0.02	<0.02	0.02	<0.02
	Chrysene	µg/L	0.01/0.1/1		<1	<0.05	<0.05	<0.05	<0.05	<0.05
	Dibenz(a,h)anthracene	µg/L	0.01/0.1/1		<1	<0.05	<0.05	<0.05	<0.05	<0.05
	Fluoranthene	µg/L	0.01/0.1/1	1	<1	<0.05	<0.05	<0.05	<0.05	<0.05
	Fluorene	µg/L	0.01/0.1/1		<1	<0.05	<0.05	<0.05	<0.05	<0.05
	Indeno(1,2,3-c,d)pyrene	µg/L	0.01/0.1/1		<1	<0.05	<0.05	<0.05	<0.05	<0.05
	Naphthalene	µg/L	0.01/0.1/1	50	<1	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenanthrene	µg/L	0.01/0.1/1	0.6	<1	<0.05	0.08	<0.05	<0.05	<0.05
	Pyrene	µg/L	0.01/0.1/1		<1	<0.05	<0.05	<0.05	0.08	<0.05
VOC										
SVOC										

Table 7
Groundwater Analytical Results
Comparison of PAH Filtered / Unfiltered Results

			Field_ID	MW6FILT	MW6	MW9FILT	MW9	MW25FILT	MW25	MW30FILT	MW30	MW120FILT	MW120
			Sampled_Date-Time	10/01/2013	10/01/2013	8/01/2013	8/01/2013	8/01/2013	8/01/2013	9/01/2013	9/01/2013	10/01/2013	10/01/2013
			Lab_Report_Number	365010	365010	364828	364798	364828	364798	364911	364911	365010	365010
Chem_Group	**ChemName**	**Units**	**LOR**										
PAH	Acenaphthene	µg/L	0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
	Acenaphthylene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Anthracene	µg/L	0.01	<0.01	<0.01	<0.01	0.05	<0.01	0.01	<0.01	0.01	<0.01	<0.01
	Benzo(a)anthracene	µg/L	0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	<0.01
	Benzo(a)pyrene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
	Benzo(b)&(k)fluoranthene	µg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02
	Benzo(g,h,i)perylene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Chrysene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Dibenz(a,h)anthracene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Fluoranthene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Fluorene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Indeno(1,2,3-c,d)pyrene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Naphthalene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Phenanthrene	µg/L	0.01	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Pyrene	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05
	Total PAHs	µg/L	0.05	<0.05	<0.05	<0.05	0.16	<0.05	<0.05	<0.05	0.13	<0.05	<0.05

Table 8
ASLP Soil Leachate Analytical Results

Haymarket Precinct, Sydney

Field_ID	BH127_(0.3-0.5)_A	BH129_(0.28-0.38)
Sampled_Date-Time	10/12/2012	10/12/2012
Lab_Report_Number	363634	363634

Chem_Grd	ChemName	Units	LOR		
Inorganics	pH (Initial)	pH_Units	0.1	9.2	8
	Moisture Content (dried @ 10	%	0.1	6.9 - 7	10 - 11
	pH (after HCL)	pH_Units	0.1	9.4	8.7
Metals	Arsenic	mg/L	0.005	<0.005	<0.005
	Cadmium	mg/L	0.0005	<0.0005	<0.0005
	Chromium	mg/L	0.005	<0.005	<0.005
	Copper	mg/L	0.005	<0.005	<0.005
	Lead	mg/L	0.005	<0.005	<0.005
	Mercury	mg/L	0.0001	<0.0001	<0.0001
	Nickel	mg/L	0.005	<0.005	<0.005
	Zinc	mg/L	0.005	<0.005	<0.005
PAH	Acenaphthene	µg/L	1	-	-
	Acenaphthylene	µg/L	1	-	-
	Anthracene	µg/L	1	-	-
	Benzo(a)anthracene	µg/L	1	-	-
	Benzo(a)pyrene	µg/L	1	-	-
	Benzo(b)&(k)fluoranthene	µg/L	2	-	-
	Benzo(g,h,i)perylene	µg/L	1	-	-
	Chrysene	µg/L	1	-	-
	Dibenz(a,h)anthracene	µg/L	1	-	-
	Fluoranthene	µg/L	1	-	-
	Fluorene	µg/L	1	-	-
	Indeno(1,2,3-c,d)pyrene	µg/L	1	-	-
	Naphthalene	µg/L	1	-	-
	Phenanthrene	µg/L	1	-	-
	Pyrene	µg/L	1	-	-
	Total PAHs	µg/L	2	-	-
TPH	C10 - C14	µg/L	50	-	-
	C15 - C28	µg/L	100	-	-
	C29 - C36	µg/L	100	-	-
	C10 - C36 (Sum of total)	µg/L	100	-	-

Notes:
- Not Analysed

Table 9
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										EB1 / 1.0-1.1	EB1 / 1.4-1.5	EB1 / 2.0-2.1	EB1 / 3.0-3.1	NBH24	NBH24	NBH24	NBH24	CBH5_(0.5-0.6m)	DUP4	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)	CBH5A_(2.0-2.1m)
LocCode										EB1	EB1	EB1	EB1	NBH24	NBH24	NBH24	NBH24	CBH5	CBH5	CBH5	CBH5	CBH5A	CBH5A
Sample_Depth_Range										1.0-1.1	1.4-1.5	2.0-2.1	3.0-3.1	0.3-0.5	0-0.1	1.5-1.95	3.0-3.45	0.5-0.6	0.5-0.6	1.0-1.1	2.0-2.1	1.0-1.1	2.0-2.1
Sampled_Date-Time										10/06/2011	10/06/2011	10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	24/04/2012	25/07/2012	25/07/2012	25/07/2012	25/07/2012	27/07/2012	27/07/2012
Matrix_Description										Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**														
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	-	-	-	<0.1	-	<0.1	0.4	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	-	-	-	<0.1	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5							-	-	-	<LOR	-	<LOR	2	<LOR	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
	Xylene (m & p)	mg/kg	1			<0.5	-			-	-	-	<1	-	<0.2	1.1	<0.2	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				-	-	-	<0.5	-	<0.1	0.3	<0.1	<0.5	0	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	-	-	-	<0.3	-	<0.3	1.4	<0.3	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							-	-	-	-	-	<0.1	13	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.5							-	-	-	-	-	<0.1	<1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5							-	-	-	-	-	<0.1	23	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							-	-	-	-	-	<0.1	50	0.3	<0.5	<0.5	<0.5	1.1	<0.5	0.8
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	-	74	4.3	<0.05	-	<0.1	30	0.2	<0.5	0	<0.5	0.9	<0.5	0.9
	Leachable benzo(a)pyrene	µg/L	0.1			40		160		-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Benzo(b)&(k)fluoranthene	mg/kg	1							-	-	-	-	-	<0.1	38	0.3	<1	<1	<1	1.4	<1	1.4
	Benzo(g,h,i)perylene	mg/kg	0.5							-	-	-	-	-	<0.1	15	0.1	<0.5	<0.5	<0.5	0.6	<0.5	0.5
	Chrysene	mg/kg	0.5							-	-	-	-	-	<0.1	42	0.3	<0.5	<0.5	<0.5	0.8	<0.5	0.7
	Dibenz(a,h)anthracene	mg/kg	0.5							-	-	-	-	-	<0.1	3.1	<0.1	<0.5	0	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5							-	-	-	-	-	<0.1	79	0.4	<0.5	0	<0.5	1.8	<0.5	1.6
	Fluorene	mg/kg	0.5							-	-	-	-	-	<0.1	12	<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	11	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.5							-	-	-	-	-	<0.1	<1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							-	-	-	-	-	<0.1	120	0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
	Pyrene	mg/kg	0.5							-	-	-	-	-	<0.1	110	0.6	<0.5	<0.5	<0.5	1.7	<0.5	1.7
	Total PAHs	mg/kg	1				200		800	-	1400	70	3	-	<0.8	550	2.7	<1	<1	<1	9.2	<1	7.6
TPH	C6 - C9	mg/kg	10				650		2600	-	<20	<20	<20	-	<20	21	<20	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							-	130	<20	<20	-	<20	62	<20	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							-	4300	290	310	-	<50	2400	<50	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	100							-	1900	150	140	-	<50	1100	<50	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	-	4620	440	450	-	<120	3562	<120	<100	<100	<100	<100	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	13	6	8	-	<3	<3	16	-	-	-	-	-	-
	Leachable arsenic	mg/L																					
	Cadmium	mg/kg	0.3	20	80		100		400	-	0.5	<0.3	<0.3	-	<0.3	<0.3	<0.3	-	-	-	-	-	-
	Leachable cadmium	mg/L																					
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	29	15	13	-	4.9	7.6	12	-	-	-	-	-	-
	Leachable copper	mg/L																					
	Copper	mg/kg	0.5							-	98	30	15	-	5.4	8.5	3.4	-	-	-	-	-	-
	Leachable copper	mg/L																					
	Lead	mg/kg	1	100	400		1500		6000	-	540	75	31	-	11	16	14	-	-	-	-	-	-
	Leachable lead	mg/L	0.02			5		20		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5	40	160		1050		4200	-	26	6.5	1.9	-	3.6	6.2	4.1	-	-	-	-	-	-
	Leachable nickel	mg/L																					
	Zinc	mg/kg	0.5							-	460	89	22	-	22	33	9.9	-	-	-	-	-	-
	Leachable zinc	mg/L																					
	Mercury	mg/kg	0.05	4	16		50		200	-	1.2	0.22	0.05	-	<0.05	<0.05	<0.05	-	-	-	-	-	-

Table 9
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.0-1.1m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	CBH7_(1.0-1.1m)[2]	CBH7_(1.5-1.6m)	DUP7	CBH7A_(1.0-1.1m)	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)
LocCode										CBH5A	CBH5A	CBH6	CBH6	CBH6	CBH6	CBH6	CBH7	CBH7	CBH7	CBH7A	CBH7A	CBH7A	CBH7A
Sample_Depth_Range										3.0-3.1	3.5-3.6	0.5-0.6	0.5-0.6	1.5-1.6	2.0-2.1	2.5-2.6	0.5-0.6	1.0-1.1	1.5-1.6	2.9-3.0	1.0-1.1	2.0-2.1	2.9-3.0
Sampled_Date-Time										27/07/2012	27/07/2012	25/07/2012	25/07/2012	25/07/2012	25/07/2012	25/07/2012	24/07/2012	24/07/2012	24/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012
Matrix_Description										Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**														
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<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
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<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
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<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 BTEX	mg/kg	1.5							<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	133	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	133	<1.5	-	0	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<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	133	<0.5	-	0	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							<0.5	1	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	<0.5	0.9	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160		-	-	-	-	-	-	-	-	-	1	-	-	-	-
	Benzo(b)&(k)fluoranthene	mg/kg	1							<1	1.4	<1	-	<1	<1	<1	<1	<1	4.3	<1	<1	<1	<1
	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	1.6	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5							<0.5	50	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	50	<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	2.1	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.4	0.8	<0.5	0.7	0.9
	Fluorene	mg/kg	0.5							<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<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	1.2	<0.5	<0.5	<0.5	<0.5
	Naphthalene	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	1.1	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5							<0.5	2	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	6	0.8	<0.5	0.6	0.9
	Total PAHs	mg/kg	1				200		800	<1	9.4	<1	-	<1	<1	<1	<1	<1	39	1.6	<1	1.3	2.3
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<50	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	100							<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable arsenic	mg/L																					
	Cadmium	mg/kg	0.3	20	80		100		400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable cadmium	mg/L																					
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable copper	mg/L																					
	Copper	mg/kg	0.5							-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable copper	mg/L																					
	Lead	mg/kg	1	100	400		1500		6000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable lead	mg/L	0.02			5		20		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5	40	160		1050		4200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable nickel	mg/L																					
	Zinc	mg/kg	0.5							-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable zinc	mg/L																					
	Mercury	mg/kg	0.05	4	16		50		200	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 9
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	BH101.1-1.3	BH10 2.0	BH10 3.0	BH10 4.0	NBH29 0.4-0.5[2]	NBH29 0.9-1.0[2]	NBH29 2.0-2.1[2]	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)
LocCode										CBH8	CBH8	CBH8	CBH8	BH10	BH10	BH10	BH10	NBH29[1]	NBH29[1]	NBH29[1]	CBH9	CBH9	CBH9
Sample_Depth_Range										0.15-0.6	1.5-1.6	2.0-2.1	2.5-2.6	1.0-1.3	2.0	3.0	4.0	0.4-0.5	0.9-1.0	2.0-2.1	0.5-0.6	1.0-1.1	1.5-1.6
Sampled_Date-Time										27/07/2012	24/07/2012	24/07/2012	24/07/2012	10/06/2011	10/06/2011	10/06/2011	10/06/2011	17/04/2012	17/04/2012	17/04/2012	26/07/2012	26/07/2012	26/07/2012
Matrix_Description										Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**														
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.5	<0.5	<0.5	<0.5	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5							<1.5	<1.5	<1.5	<1.5	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<LOR	<1.5	<1.5	<1.5
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<2	<1	<1	<1	<0.2	<0.2	<0.2	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.2	2.5	<0.1	<0.5	0.9	<0.5
	Acenaphthylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.1	4.7	<0.1	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.7	13	0.2	<0.5	2.8	<0.5
	Benzo(a)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.8	26	0.2	<0.5	5.8	1.1
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	<0.5	<0.5	<0.5	<0.5	**20**	-	<0.05	2.1	0.5	**16**	0.1	<0.5	6	1.8
	Leachable benzo(a)pyrene	µg/L	0.1			40		160		-	-	-	-	<0.1	-	-	-	-	<0.1	-	-	<1	-
	Benzo(b)&(k)fluoranthene	mg/kg	1							<1	<1	<1	<1	-	-	-	-	1.1	26.6	0.3	<1	9.1	2.8
	Benzo(g,h,i)perylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.5	9.3	<0.1	<0.5	3.7	1.5
	Chrysene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.8	14	0.2	<0.5	4	1.1
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	<0.1	2.5	<0.1	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5							0.7	<0.5	<0.5	<0.5	-	-	-	-	1.5	53	0.5	<0.5	12	1.6
	Fluorene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.3	5.5	<0.1	<0.5	0.8	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.3	8.1	<0.1	<0.5	2.7	1
	Naphthalene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	0.1	2.6	<0.1	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	-	-	-	-	3.2	69	0.6	<0.5	8.9	0.6
	Pyrene	mg/kg	0.5							0.7	<0.5	<0.5	<0.5	-	-	-	-	1.3	51	0.5	<0.5	11	1.8
	Total PAHs	mg/kg	1				200		800	1.4	<1	<1	<1	**280**	-	<1.75	32	11	**300**	2.3	<1	68	13
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<20	<20	<20	<20	<20	<20	<20	<10	<10	<10
	C10 - C14	mg/kg	50							<50	<50	<50	<50	22	<20	<20	<20	<20	<20	<20	<50	<50	<50
	C15 - C28	mg/kg	100							<100	<100	<100	<100	1100	590	<50	120	2500	840	<50	<100	210	<100
	C29 - C36	mg/kg	100							<100	<100	<100	<100	510	220	<50	52	1700	380	<50	<100	580	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	<100	<100	<100	1632	810	<120	172	4220	1230	<100	<100	790	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	-	-	-	4	-	8	4	<3	4	3	-	-	-
	Leachable arsenic	mg/L												-	-	-	-	-	<0.05	-	-	-	-
	Cadmium	mg/kg	0.3	20	80		100		400	-	-	-	-	<0.3	-	<0.3	<0.3	0.3	0.3	<0.3	-	-	-
	Leachable cadmium	mg/L												-	-	-	-	-	<0.005	-	-	-	-
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	-	-	-	11	-	13	13	22	8.9	4.7	-	-	-
	Leachable copper	mg/L												-	-	-	-	-	<0.005	-	-	-	-
	Copper	mg/kg	0.5							-	-	-	-	44	-	4.9	35	80	83	5.5	-	-	-
	Leachable copper	mg/L												-	-	-	-	-	0.27	-	-	-	-
	Lead	mg/kg	1	100	400		1500		6000	-	-	-	-	260	-	19	150	24	230	6	-	-	-
	Leachable lead	mg/L	0.02			5		20		-	-	-	-	0.76	-			-	0.08	-	-	-	-
	Nickel	mg/kg	0.5	40	160		1050		4200	-	-	-	-	7.7	-	1.2	4.7	38	9.6	<0.5	-	-	-
	Leachable nickel	mg/L												-	-	-	-	-	0.014	-	-	-	-
	Zinc	mg/kg	0.5							-	-	-	-	72	-	18	110	71	310	3.5	-	-	-
	Leachable zinc	mg/L												-	-	-	-	-	9.5	-	-	-	-
	Mercury	mg/kg	0.05	4	16		50		200	-	-	-	-	0.13	-	<0.05	0.22	0.3	2.1	<0.05	-	-	-

Table 9
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										CBH9_(2.5-2.6m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	DUP5	DUP5A	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	BH12 0.5	BH12 1.0	BH12 1.5
LocCode										CBH9	CBH10	CBH10	CBH10	CBH10	CBH10	CBH10	CBH11	CBH11	CBH11	CBH11	BH12	BH12	BH12
Sample_Depth_Range										2.5-2.6	0.5-0.6	1.0-1.1	1.5-1.6	2.0-2.1	2.0-2.1	2.0-2.1	0.5-0.6	1.0-1.1	2.0-2.1	3.0-3.1	0.5	1.0	1.5
Sampled_Date-Time										26/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	25/07/2012	26/07/2012	26/07/2012	26/07/2012	10/06/2011	10/06/2011	10/06/2012
Matrix_Description										Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**														
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	-	<0.1	<1
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	-	<0.1	<1
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.1	<1
	Total BTEX	mg/kg	1.5							<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<25	<1.5	<1.5	<1.5	<1.5	-	-	-
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	-	<1	<2
	Xylene (o)	mg/kg	0.5			1.6				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	-	<0.5	<1
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	-	<0.3	<3
PAH	Acenaphthene	mg/kg	0.5							<0.5	<0.5	5	<0.5	<0.5	<0.5	<0.1	<0.5	2	<0.5	<0.5	-	-	-
	Acenaphthylene	mg/kg	0.5							<0.5	3.5	0.7	<0.5	<0.5	<0.5	<0.1	<0.5	0.7	<0.5	<0.5	-	-	-
	Anthracene	mg/kg	0.5							<0.5	8.2	12	<0.5	<0.5	<0.5	<0.1	<0.5	5.1	1	<0.5	-	-	-
	Benzo(a)anthracene	mg/kg	0.5							<0.5	16	20	<0.5	<0.5	0.5	0.1	0.6	11	1.8	<0.5	-	-	-
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	<0.5	10	**19**	<0.5	<0.5	0.5	0.1	0.6	7.5	1.1	<0.5	0.63	**3.2**	**1.9**
	Leachable benzo(a)pyrene	µg/L	0.1			40		160		-	-	<1	-	-	-	-	-	<1	-	-			
	Benzo(b)&(k)fluoranthene	mg/kg	1							<1	17	28	<1	<1	<1	<0.2	1.1	13	2	<1	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.5							<0.5	5.1	11	<0.5	<0.5	<0.5	<0.1	<0.5	3.2	0.5	<0.5	-	-	-
	Chrysene	mg/kg	0.5							<0.5	9.2	13	<0.5	<0.5	<0.5	0.1	0.6	6.7	1.3	<0.5	-	-	-
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	-	-	-
	Fluoranthene	mg/kg	0.5							<0.5	37	50	0.6	<0.5	1.2	0.3	1.2	18	3.5	<0.5	-	-	-
	Fluorene	mg/kg	0.5							<0.5	1.9	5.1	<0.5	<0.5	<0.5	<0.1	<0.5	2.7	0.5	<0.5	-	-	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							<0.5	4.2	8.6	<0.5	<0.5	<0.5	<0.1	<0.5	3.5	<0.5	<0.5	-	-	-
	Naphthalene	mg/kg	0.5							<0.5	0.6	3.8	<0.5	<0.5	<0.5	<0.1	<0.5	1	<0.5	<0.5	-	-	-
	Phenanthrene	mg/kg	0.5							<0.5	32	42	0.7	<0.5	1	0.3	0.7	16	3.2	<0.5	-	-	-
	Pyrene	mg/kg	0.5							<0.5	31	43	<0.5	<0.5	1	0.3	1.2	18	3.7	<0.5	-	-	-
	Total PAHs	mg/kg	1				200		800	<1	180	**260**	1.3	<1	4.2	-	6	110	19	<1	5.6	29	17
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	-	<20	<20
	C10 - C14	mg/kg	50							<50	<50	<50	<50	<50	<50	<100	<50	<50	<50	<50	-	<20	<20
	C15 - C28	mg/kg	100							<100	470	690	<100	<100	<100	<100	<100	540	<100	<100	-	190	130
	C29 - C36	mg/kg	100							<100	200	420	<100	<100	<100	-	<100	280	<100	<100	-	150	100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	670	1100	<100	<100	<100	-	<100	820	<100	<100	-	340	230
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable arsenic	mg/L								-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cadmium	mg/kg	0.3	20	80		100		400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable cadmium	mg/L								-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable copper	mg/L								-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Copper	mg/kg	0.5							-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable copper	mg/L								-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Lead	mg/kg	1	100	400		1500		6000	-	-	-	-	-	-	-	-	-	-	-	0.63	3.2	1.9
	Leachable lead	mg/L	0.02			5		20		-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nickel	mg/kg	0.5	40	160		1050		4200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable nickel	mg/L								-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Zinc	mg/kg	0.5							-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Leachable zinc	mg/L								-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mercury	mg/kg	0.05	4	16		50		200	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 9
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										BH12 2.0	BH12 3.0	BH23 0.5-0.6	BH23 1.5-1.95	BH23 3-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)
LocCode										BH12	BH12	BH23	BH23	BH23	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	BH118_(3.5-3.6m)	BH119_(0.11-0.21m)
Sample_Depth_Range										2.0	3.0	0.5-0.6	1.5-1.95	3-3.45								
Sampled_Date-Time										10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012
Matrix_Description										Soil	Soil	Soil	Soil	Soil								
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**													
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.1	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.1	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.1	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5							-	-											
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	-	<0.1	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	-	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<0.3	-	<0.3	<0.3	<0.3	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							-	-	<0.1	<0.1	<0.1	<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	<0.1	<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	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							-	-	0.3	0.2	<0.1	<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	3.2		10		23	<0.05	<0.05	0.3	0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160														
	Benzo(b)&(k)fluoranthene	mg/kg	1							-	-	0.4	0.2	<0.1	<1	<1	<1	<1	<1	<1	<1	<1
	Benzo(g,h,i)perylene	mg/kg	0.5							-	-	0.2	0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5							-	-	0.3	0.2	<0.1	<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	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5							-	-	0.5	0.2	<0.1	<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	<0.1	<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	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.5							-	-	0.2	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							-	-	0.5	0.2	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.5							-	-	0.5	0.2	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	1				200		800	<1.75	<1.75	3.3	1.4	<0.8	<1	<1	<1	<1	<1	<1	<1	<1
TPH	C6 - C9	mg/kg	10				650		2600	<20	-	<20	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<20	-	<20	<20	<20	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							<50	-	<50	<50	<50	<100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	100							<50	-	<50	<50	<50	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<120	-	<120	<120	<120	<100	<100	<100	<100	<100	<100	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	-	<0.1	<0.1	<0.1	4.6	<2	-	-	2.8	4.1	-	<2
	Leachable arsenic	mg/L								-	-	-	-	-								
	Cadmium	mg/kg	0.3	20	80		100		400	-	-	<0.1	<0.1	<0.1	<0.4	<0.4	-	-	<0.4	<0.4	-	<0.4
	Leachable cadmium	mg/L								-	-	-	-	-								
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	-	0.1	<0.1	<0.1	5.6	7	-	-	6.1	<5	-	<5
	Leachable copper	mg/L								-	-	-	-	-								
	Copper	mg/kg	0.5							-	-	0.3	0.2	<0.1	17	23	-	-	<5	5	-	75
	Leachable copper	mg/L								-	-	-	-	-								
	Lead	mg/kg	1	100	400		1500		6000	<0.05	<0.05	0.3	0.1	<0.1	58	44	-	-	13	7.6	-	5.6
	Leachable lead	mg/L	0.02			5		20		-	-	-	-	-								
	Nickel	mg/kg	0.5	40	160		1050		4200	-	-	0.4	0.2	<0.1	11	7.3	-	-	<5	<5	-	210
	Leachable nickel	mg/L								-	-	-	-	-								
	Zinc	mg/kg	0.5							-	-	0.2	0.1	<0.1	250	280	-	-	78	140	-	90
	Leachable zinc	mg/L								-	-	-	-	-								
	Mercury	mg/kg	0.05	4	16		50		200	-	-	0.3	0.2	<0.1	0.06	0.07	-	-	<0.05	<0.05	-	<0.05

Table 9
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										BH119_(0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)	BH120_(0.03-0.13m)	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)
LocCode										BH119_0.33ASB)	BH119_(0.4-0.5m)	BH119_(0.8-0.9M)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)	BH120_(0.03-0.13m)	BH120_(0.03-0.13m)	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)
Sample_Depth_Range																						
Sampled_Date-Time										12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012
Matrix_Description																						
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**													
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5																			
	Xylene (m & p)	mg/kg	1			<0.5	-			-	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	-	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	4.1	<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
	Anthracene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.9	<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	1.2	5.6	12	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	3.9	8.7	<0.5	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160														
	Benzo(b)&(k)fluoranthene	mg/kg	1							-	<1	-	<1	<1	<1	<1	<1	<1	2.2	7.1	15	<1	<1
	Benzo(g,h,i)perylene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	2	4.6	<0.5	<0.5
	Chrysene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	4.8	9.6	<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
	Fluoranthene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.9	12	27	<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	0.7	3.8	<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	0.8	1.8	4.1	<0.5	<0.5
	Naphthalene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	9.1	31	<0.5	<0.5
	Pyrene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	10	23	<0.5	<0.5
	Total PAHs	mg/kg	1				200		800	-	<1	-	<1	<1	<1	<1	<1	<1	13	67	140	<1	<1
TPH	C6 - C9	mg/kg	10				650		2600	-	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							-	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							-	<100	-	<100	<100	<100	<100	<100	<100	<100	160	390	<100	<100
	C29 - C36	mg/kg	100							-	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	-	<100	-	<100	<100	<100	<100	<100	<100	<100	160	390	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	4.8	-	3.8	16	34	-	4	6.1	-	-	-	-
	Leachable arsenic	mg/L																				
	Cadmium	mg/kg	0.3	20	80		100		400	-	<0.4	-	<0.4	<0.4	<0.4	-	<0.4	<0.4	-	-	-	-
	Leachable cadmium	mg/L																				
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	<5	-	21	24	35	-	110	6.7	-	-	-	-
	Leachable copper	mg/L																				
	Copper	mg/kg	0.5							-	17	-	24	<5	96	-	43	51	-	-	-	-
	Leachable copper	mg/L																				
	Lead	mg/kg	1	100	400		1500		6000	-	40	-	190	63	530	-	6.2	250	-	-	-	-
	Leachable lead	mg/L	0.02			5		20														
	Nickel	mg/kg	0.5	40	160		1050		4200	-	6.3	-	6.7	<5	35	-	120	<5	-	-	-	-
	Leachable nickel	mg/L																				
	Zinc	mg/kg	0.5							-	26	-	70	30	220	-	79	190	-	-	-	-
	Leachable zinc	mg/L																				
	Mercury	mg/kg	0.05	4	16		50		200	-	0.2	-	1.8	0.51	4.9	-	<0.05	0.57	-	-	-	-

Table 9
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1M)	BH122A_(1.5-1.6m)_A
LocCode										BH121_(0.5-0.6m)_A	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)_A	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.0-1.1m)	BH122A_(1.5-1.6m)_A
Sample_Depth_Range																						
Sampled_Date-Time										18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
Matrix_Description																						
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**													
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<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 BTEX	mg/kg	1.5																			
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5
PAH	Acenaphthene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<5	<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	<5	<5	1.4	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Anthracene	mg/kg	0.5							1.1	1.2	<0.5	<0.5	7.9	14	3.6	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Benzo(a)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	0.7	31	18	10	<0.5	<0.5	1.3	<0.5	-	1.3
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	0.7	0.8	<0.5	0.5	22	13	7.8	<0.5	<0.5	1.3	<0.5	-	1.2
	Leachable benzo(a)pyrene	µg/L	0.1			40		160														
	Benzo(b)&(k)fluoranthene	mg/kg	1							1.4	<1	<1	1.1	39	21	13	<1	<1	2	<1	-	2.1
	Benzo(g,h,i)perylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	11	6.6	3.8	<0.5	<0.5	0.7	<0.5	-	0.7
	Chrysene	mg/kg	0.5							0.8	<0.5	<0.5	0.6	23	14	8	<0.5	<0.5	1.1	<0.5	-	1.1
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Fluoranthene	mg/kg	0.5							2	2.3	<0.5	0.9	55	30	18	0.8	0.9	2.4	<0.5	-	2.4
	Fluorene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<5	<5	1.2	<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	9.8	<5	3.5	<0.5	<0.5	0.6	<0.5	-	0.6
	Naphthalene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	1	0.6	0.8	<0.5	<0.5	<0.5	<0.5	-	<0.5
	Phenanthrene	mg/kg	0.5							1.2	1.2	<0.5	<0.5	28	14	14	<0.5	0.6	1.4	<0.5	-	1.4
	Pyrene	mg/kg	0.5							1.7	2	<0.5	1	53	31	17	0.8	0.9	2.3	<0.5	-	2.2
	Total PAHs	mg/kg	1				200		800	8.9	7.5	<1	4.8	280	160	100	1.6	2.4	13	<1	-	13
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
	C10 - C14	mg/kg	50							<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	<50
	C15 - C28	mg/kg	100							<100	<100	<100	<100	1300	520	350	<100	<100	<100	<100	-	<100
	C29 - C36	mg/kg	100							<100	<100	<100	<100	810	270	270	<100	<100	<100	<100	-	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	<100	<100	<100	2135	790	620	<100	<100	<100	<100	-	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	8.7	-	14	-	-	14	-	2.1	-	2.8	-	5.2
	Leachable arsenic	mg/L																				
	Cadmium	mg/kg	0.3	20	80		100		400	-	<0.4	-	<0.4	-	-	<0.4	-	<0.4	-	<0.4	-	<0.4
	Leachable cadmium	mg/L																				
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	42	-	11	-	-	27	-	11	-	7.5	-	11
	Leachable copper	mg/L																				
	Copper	mg/kg	0.5							-	130	-	93	-	-	350	-	20	-	29	-	26
	Leachable copper	mg/L																				
	Lead	mg/kg	1	100	400		1500		6000	-	79	-	160	-	-	2700	-	35	-	47	-	56
	Leachable lead	mg/L	0.02			5		20														
	Nickel	mg/kg	0.5	40	160		1050		4200	-	51	-	14	-	-	62	-	8	-	<5	-	<5
	Leachable nickel	mg/L																				
	Zinc	mg/kg	0.5							-	120	-	150	-	-	310	-	60	-	55	-	63
	Leachable zinc	mg/L																				
	Mercury	mg/kg	0.05	4	16		50		200	-	0.41	-	0.59	-	-	3.4	-	0.06	-	0.06	-	0.12

Table 9
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID										BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)
LocCode										BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m)	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)_A	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)
Sample_Depth_Range																						
Sampled_Date-Time										13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
Matrix_Description																						
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**													
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<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
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<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
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<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 BTEX	mg/kg	1.5																			
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<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
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	0.8	<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	5.3	4.8	<0.5	0.8	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5							0.7	<0.5	<0.5	<0.5	<0.5	<0.5	12	6	<0.5	1.3	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							2.2	<0.5	<0.5	<0.5	<0.5	0.6	34	13	<0.5	2.8	1.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	2.1	<0.5	<0.5	<0.5	<0.5	0.7	30	14	<0.5	2.9	1.7	<0.5	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160														
	Benzo(b)&(k)fluoranthene	mg/kg	1							3.5	<1	<1	<1	<1	1.2	46	20	<1	4.6	2.7	<1	<1
	Benzo(g,h,i)perylene	mg/kg	0.5							1.1	<0.5	<0.5	<0.5	<0.5	<0.5	13	6.7	<0.5	1.8	1.1	<0.5	<0.5
	Chrysene	mg/kg	0.5							2	<0.5	<0.5	<0.5	<0.5	0.6	27	8.8	<0.5	2.7	1.4	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4	1.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.5							4.2	<0.5	<0.5	<0.5	<0.5	1	58	28	0.9	5.7	2.5	0.5	<0.5
	Fluorene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.2	3.9	<0.5	0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							1	<0.5	<0.5	<0.5	<0.5	<0.5	12	5.6	<0.5	1.6	0.9	<0.5	<0.5
	Naphthalene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3	2.7	<0.5	0.6	2.1	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							2.7	0.8	<0.5	<0.5	<0.5	<0.5	44	19	0.8	4.8	1.1	<0.5	<0.5
	Pyrene	mg/kg	0.5							4	<0.5	<0.5	<0.5	<0.5	1.1	55	25	0.9	5.5	2.6	0.5	<0.5
	Total PAHs	mg/kg	1				200		800	24	<1	<1	<1	<1	5.2	350	160	2.6	36	18	1	<1
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							180	<100	<100	<100	<100	<100	810	380	<100	140	110	<100	<100
	C29 - C36	mg/kg	100							<100	<100	<100	<100	<100	<100	220	100	<100	<100	100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	180	<100	<100	<100	<100	<100	1055	505	<100	140	210	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	4.5	5	<2	-	-	-	-	-	7.6	6.1	6.4	9.3	6.9
	Leachable arsenic	mg/L																				
	Cadmium	mg/kg	0.3	20	80		100		400	<0.4	<0.4	<0.4	-	-	-	-	-	0.4	<0.4	<0.4	<0.4	<0.4
	Leachable cadmium	mg/L																				
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	11	11	7.6	-	-	-	-	-	10	<5	<5	6.7	12
	Leachable copper	mg/L																				
	Copper	mg/kg	0.5							26	48	6.9	-	-	-	-	-	50	26	32	46	9.4
	Leachable copper	mg/L																				
	Lead	mg/kg	1	100	400		1500		6000	52	140	9.3	-	-	-	-	-	69	36	47	40	<5
	Leachable lead	mg/L	0.02			5		20														
	Nickel	mg/kg	0.5	40	160		1050		4200	<5	<5	<5	-	-	-	-	-	11	<5	5.3	<5	<5
	Leachable nickel	mg/L																				
	Zinc	mg/kg	0.5							56	81	<5	-	-	-	-	-	110	51	69	41	13
	Leachable zinc	mg/L																				
	Mercury	mg/kg	0.05	4	16		50		200	0.16	0.35	0.11	-	-	-	-	-	0.12	0.1	0.11	0.13	0.07

Table 9
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID									BH123A_(4.0-4.1m)	BH124_(0.01-0.11M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)	BH125_(0.23-0.33m)_	BH125_(0.23-0.33m)
LocCode									BH123A_(4.0-4.1m)	BH124_(0.01-1.1M)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)	BH125_(0.23-0.33m)_	BH125_(0.23-0.33m)
Sample_Depth_Range																					
Sampled_Date-Time									13/12/2012	13/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	11/12/2012	11/12/2012
Matrix_Description																					
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**												
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5																		
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	-	<1	<1	<1	-	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	-	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
PAH	Acenaphthene	mg/kg	0.5							<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.1
	Acenaphthylene	mg/kg	0.5							<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	18
	Anthracene	mg/kg	0.5							<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	18
	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	27
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	20
	Leachable benzo(a)pyrene	µg/L	0.1			40		160													
	Benzo(b)&(k)fluoranthene	mg/kg	1							<1	-	<1	<1	-	-	-	-	-	-	33	39
	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	7.8
	Chrysene	mg/kg	0.5							<0.5	-	0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	18
	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	1.8
	Fluoranthene	mg/kg	0.5							<0.5	-	1.1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	66
	Fluorene	mg/kg	0.5							<0.5	-	<0.5	<0.5	<0.5	-	0.9	1.4	<0.5	1.2	1.1	15
	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	7.4
	Naphthalene	mg/kg	0.5							<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	18
	Phenanthrene	mg/kg	0.5							<0.5	-	1	<0.5	<0.5	-	1.3	<0.5	<0.5	1.9	1.6	87
	Pyrene	mg/kg	0.5							<0.5	-	1	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	54
	Total PAHs	mg/kg	1				200		800	<1	-	4.1	<1	-	-	-	-	-	-	390	370
TPH	C6 - C9	mg/kg	10				650		2600	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<50	-	<50	<50	<50	110	620	630	<50	630	660	<50
	C15 - C28	mg/kg	100							<100	-	<100	<100	<100	1300	3800	2700	<100	3200	2600	940
	C29 - C36	mg/kg	100							<100	-	<100	<100	<100	220	350	220	160	320	310	530
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	-	<100	<100	<100	1630	4770	3550	160	4150	3600	1500
Metals	Arsenic	mg/kg	3	100	400		500		2000	2.5	-	13	13	6.8	-	-	-	-	-	-	2.9
	Leachable arsenic	mg/L																			
	Cadmium	mg/kg	0.3	20	80		100		400	<0.4	-	1	0.6	0.4	-	-	-	-	-	-	<0.4
	Leachable cadmium	mg/L																			
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	<5	-	12	11	8.5	-	-	-	-	-	-	<5
	Leachable copper	mg/L																			
	Copper	mg/kg	0.5							<5	-	92	140	59	-	-	-	-	-	26	39
	Leachable copper	mg/L																			
	Lead	mg/kg	1	100	400		1500		6000	<5	-	180	120	64	-	-	-	-	-	99	84
	Leachable lead	mg/L	0.02			5		20													
	Nickel	mg/kg	0.5	40	160		1050		4200	<5	-	16	12	20	-	-	-	-	-	<5	<5
	Leachable nickel	mg/L																			
	Zinc	mg/kg	0.5							<5	-	240	170	94	-	-	-	-	-	93	74
	Leachable zinc	mg/L																			
	Mercury	mg/kg	0.05	4	16		50		200	<0.05	-	0.22	0.26	0.23	-	-	-	-	-	0.21	0.24

Table 9
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID									BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A
LocCode									BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)_A	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)_A	BH125A_(2.0-2.1M)	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m)	BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A
Sample_Depth_Range																					
Sampled_Date-Time									11/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	10/12/2012
Matrix_Description																					
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**												
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<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 BTEX	mg/kg	1.5																		
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
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
	Acenaphthylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<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	0.7	1.3	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	4.1	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	3.1	<0.5	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160													
	Benzo(b)&(k)fluoranthene	mg/kg	1							1.4	<1	<1	<1	<1	<1	<1	<1	1.6	5.9	<1	<1
	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	1.2	<0.5	<0.5
	Chrysene	mg/kg	0.5							0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	3.1	<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
	Fluoranthene	mg/kg	0.5							1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.8	7.3	<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
	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	1.3	<0.5	<0.5
	Naphthalene	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
	Phenanthrene	mg/kg	0.5							1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.2	3.7	<0.5	<0.5
	Pyrene	mg/kg	0.5							1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.5	5.9	<0.5	<0.5
	Total PAHs	mg/kg	1				200		800	9.7	<1	<1	<1	<1	<1	<1	<1	13	38	<1	<1
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							<100	<100	<100	<100	<100	<100	<100	<100	<100	250	<100	<100
	C29 - C36	mg/kg	100							<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	<100	<100	<100	<100	<100	<100	<100	<100	250	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	5.1	-	<2	16	-	-	-	<2	3.7	<2	3.5	25	<2
	Leachable arsenic	mg/L																			
	Cadmium	mg/kg	0.3	20	80		100		400	<0.4	-	<0.4	<0.4	-	-	-	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
	Leachable cadmium	mg/L																			
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	18	-	<5	15	-	-	-	<5	<5	<5	7.4	<5	<5
	Leachable copper	mg/L																			
	Copper	mg/kg	0.5							43	-	5.8	19	-	-	-	15	20	41	560	<5	64
	Leachable copper	mg/L																			
	Lead	mg/kg	1	100	400		1500		6000	110	-	13	57	-	-	-	33	68	95	710	9.7	11
	Leachable lead	mg/L	0.02			5		20													
	Nickel	mg/kg	0.5	40	160		1050		4200	5.3	-	<5	9.1	-	-	-	<5	<5	5.7	7.4	<5	130
	Leachable nickel	mg/L																			
	Zinc	mg/kg	0.5							77	-	12	220	-	-	-	29	95	100	140	<5	71
	Leachable zinc	mg/L																			
	Mercury	mg/kg	0.05	4	16		50		200	0.34	-	<0.05	0.62	-	-	-	0.3	0.36	0.47	5.7	<0.05	<0.05

Table 9
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID									BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M)_	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)
LocCode									BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M)_	BH128_(0.28-0.38M)	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)
Sample_Depth_Range																					
Sampled_Date-Time									10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
Matrix_Description																					
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**												
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<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 BTEX	mg/kg	1.5																		
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
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
	Acenaphthylene	mg/kg	0.5							<0.5	<0.5	3.7	2.3	<0.5	<0.5	<0.5	2.7	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5							<0.5	0.5	6.7	3.6	<0.5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							<0.5	0.8	15	7.4	<0.5	<0.5	0.6	4.4	1.2	0.7	1.2	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	<0.5	0.8	12	5.9	<0.5	<0.5	0.7	2.9	1.2	0.9	1.4	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160													
	Benzo(b)&(k)fluoranthene	mg/kg	1							<1	1.3	20	9.7	<1	<1	1.1	5	2.1	1.6	2.3	<1
	Benzo(g,h,i)perylene	mg/kg	0.5							<0.5	<0.5	4.9	2.6	<0.5	<0.5	<0.5	1.6	0.9	0.7	1.1	<0.5
	Chrysene	mg/kg	0.5							<0.5	0.7	11	5.1	<0.5	<0.5	0.6	3	1.2	0.8	1.2	<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
	Fluoranthene	mg/kg	0.5							<0.5	1.9	31	16	<0.5	0.5	1.2	8.8	2	1.2	2	<0.5
	Fluorene	mg/kg	0.5							<0.5	<0.5	3.1	1.8	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5							<0.5	<0.5	4.4	2.2	<0.5	<0.5	<0.5	1.6	0.7	0.6	0.9	<0.5
	Naphthalene	mg/kg	0.5							<0.5	<0.5	1	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.5							<0.5	1.2	21	13	<0.5	<0.5	0.7	11	1.2	<0.5	0.8	<0.5
	Pyrene	mg/kg	0.5							<0.5	1.9	28	14	<0.5	<0.5	1.2	7.4	2	1.3	2	<0.5
	Total PAHs	mg/kg	1				200		800	<1	9.1	160	84	<1	<1	6.1	53	13	7.8	13	<1
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	100							<100	250	350	190	<100	<100	<100	110	<100	<100	<100	<100
	C29 - C36	mg/kg	100							<100	550	860	730	260	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	800	1235	945	260	<100	<100	110	<100	<100	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	<2	3.6	5.2	4.4	<2	-	3.4	5.2	-	7.4	4.5	3.5
	Leachable arsenic	mg/L																			
	Cadmium	mg/kg	0.3	20	80		100		400	<0.4	<0.4	<0.4	<0.4	<0.4	-	<0.4	<0.4	-	<0.4	<0.4	<0.4
	Leachable cadmium	mg/L																			
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	6.3	9.3	7.6	5.5	<5	-	12	12	-	21	23	11
	Leachable copper	mg/L																			
	Copper	mg/kg	0.5							55	28	43	42	<5	-	27	27	-	36	24	13
	Leachable copper	mg/L																			
	Lead	mg/kg	1	100	400		1500		6000	6.8	85	190	160	<5	-	89	96	-	430	200	93
	Leachable lead	mg/L	0.02			5		20													
	Nickel	mg/kg	0.5	40	160		1050		4200	120	15	14	15	<5	-	5.6	5.8	-	12	8.2	<5
	Leachable nickel	mg/L																			
	Zinc	mg/kg	0.5							67	93	140	140	<5	-	78	94	-	410	220	130
	Leachable zinc	mg/L																			
	Mercury	mg/kg	0.05	4	16		50		200	<0.05	0.17	0.55	0.55	<0.05	-	0.18	0.27	-	1.2	1.5	0.54

Table 9
Preliminary Waste Classification Assessment
Haymarket Precinct, Sydney

Field_ID									BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)
LocCode									BH128_(2.9-3.0M)	BH129_(0.24-0.28M)_	BH129_(0.28-0.38M)	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)	BH129_(1.5-1.6M)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	BH129_(5.0-5.1m)
Sample_Depth_Range																		
Sampled_Date-Time									17/12/2012	10/12/2012	10/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012
Matrix_Description																		
Analyte Group	**Analyte**	**Units**	**LOR**	**CT1[1]**	**CT2[1]**	**TCLP1[1]**	**SCC1[1]**	**TCLP2[1]**	**SCC2[1]**									
Volatile	Benzene	mg/kg	0.5	10	40	0.5	18	2	72	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Ethylbenzene	mg/kg	0.5	600	2400	30	1080	120	4320	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Toluene	mg/kg	0.5	288	1152	14.4	518	57.6	2073	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Total BTEX	mg/kg	1.5																
	Xylene (m & p)	mg/kg	1			<0.5	-			<1	<1	<1	<1	<1	-	<1	<1	<1	<1
	Xylene (o)	mg/kg	0.5			1.6				<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
	Xylene Total	mg/kg	1.5	1000	4000	1.8		200	7200	<1.5	<1.5	<1.5	<1.5	<1.5	-	<1.5	<1.5	<1.5	<1.5
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	-	1	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	-	1.9	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.5							<0.5	<0.5	0.6	<0.5	<0.5	-	3.4	0.8	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.5	0.8	3.2		10		23	<0.5	<0.5	0.6	<0.5	<0.5	-	2.9	0.7	<0.5	<0.5
	Leachable benzo(a)pyrene	µg/L	0.1			40		160											
	Benzo(b)&(k)fluoranthene	mg/kg	1							<1	<1	1.1	<1	<1	-	4.7	1.1	<1	<1
	Benzo(g,h,i)perylene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	-	1.4	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.5							<0.5	<0.5	0.6	<0.5	<0.5	-	3.7	0.7	<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	1	1	1	-	11	1.5	<0.5	<0.5
	Fluorene	mg/kg	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	-	0.7	<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	-	1.2	<0.5	<0.5	<0.5
	Naphthalene	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	-	9.9	0.7	<0.5	<0.5
	Pyrene	mg/kg	0.5							<0.5	<0.5	1	0.9	0.9	-	9.2	1.4	<0.5	<0.5
	Total PAHs	mg/kg	1				200		800	<1	<1	4.9	1.9	1.9	-	51	6.9	<1	<1
TPH	C6 - C9	mg/kg	10				650		2600	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
	C10 - C14	mg/kg	50							<50	<50	<50	<50	<50	-	<50	<50	<50	<50
	C15 - C28	mg/kg	100							<100	<100	<100	<100	<100	-	<100	<100	<100	<100
	C29 - C36	mg/kg	100							<100	<100	<100	<100	<100	-	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	100				10,000		40,000	<100	<100	<100	<100	<100	-	<100	<100	<100	<100
Metals	Arsenic	mg/kg	3	100	400		500		2000	-	4.1	4.9	6.9	9.6	-	9.3	-	-	-
	Leachable arsenic	mg/L																	
	Cadmium	mg/kg	0.3	20	80		100		400	-	<0.4	0.5	0.5	0.6	-	1.2	-	-	-
	Leachable cadmium	mg/L																	
	Chromium[3]	mg/kg	0.3	100	400		1900		7600	-	<5	16	7.1	6.9	-	10	-	-	-
	Leachable copper	mg/L																	
	Copper	mg/kg	0.5							-	29	49	130	150	-	110	-	-	-
	Leachable copper	mg/L																	
	Lead	mg/kg	1	100	400		1500		6000	-	52	150	410	370	-	330	-	-	-
	Leachable lead	mg/L	0.02			5		20											
	Nickel	mg/kg	0.5	40	160		1050		4200	-	6.6	14	12	14	-	11	-	-	-
	Leachable nickel	mg/L																	
	Zinc	mg/kg	0.5							-	140	430	1700	1700	-	2200	-	-	-
	Leachable zinc	mg/L																	
	Mercury	mg/kg	0.05	4	16		50		200	-	0.43	0.68	4.5	4.3	-	3	-	-	-

Table 10
TCLP Soil Leachate Analytical Results

Haymarket Precinct, Sydney

Field_ID			BH4	BH10	BH14	BH15	BH17	EB1	EB3	CBH5A_(2.0-2.1m)_1
LocCode										CBH5A
Sample_Depth_Range			2	1.1-1.3	2.5	2.5-2.6	1.0-1.1	1.4-1.5	1-1.1	2.0-2.1
Sampled_Date-Time			6/06/2011	10/06/2011	17/06/2011	21/06/2011	16/06/2011	10/06/2011	10/06/2011	27/07/2012
Matrix_Description										Soil
Analyte Group	**Analyte**	**Units**	**LOR**							
PAH	Leachable benzo(a)pyrene	µg/L	0.1	-	0.1	-	-	-	<0.1	<0.1	1
Metals	Leachable arsenic	mg/L	<0.05	-	-	-	-	-	-	-	-
	Leachable cadmium	mg/L	<0.005	-	-	-	-	-	-	-	-
	Leachable Chromium	mg/L	<0.005	-	-	-	-	-	-	-	-
	Leachable copper	mg/L	<0.005	-	-	-	-	-	-	-	-
	Leachable lead	mg/L	0.02	0.19	0.76	0.036	0.11	-	-	-	-
	Leachable nickel	mg/L	<0.005	-	-	-	-	-	-	-	-
	Leachable zinc	mg/L	<0.005	-	-	-	-	-	-	-	-
	Leachable Mercury	mg/L	0.0001	-	-	-	-	<0.0001	-	-	-

Notes
- Not Analysed

Table 10
TCLP Soil Leachate Analytical Results

Haymarket Precinct, Sydney

Field_ID				CBH7_(1.5-1.6m)	BH101.1-1.3	NBH29 0.9-1.0	CBH9_(1.0-1.1m)	CBH10_(1.0-1.1m)	CBH11_(1.0-1.1m)	BH127_(0.3-0.5)_A	BH129_(0.28-0.38)
LocCode				CBH7	BH10	NBH29[1]	CBH9	CBH10	CBH11	BH127_(0.3-0.5)_A	BH129_(0.28-0.38)
Sample_Depth_Range				1.5-1.6	1.0-1.3	0.9-1.0	1.0-1.1	1.0-1.1	1.0-1.1		
Sampled_Date-Time				24/07/2012	10/06/2011	17/04/2012	26/07/2012	26/07/2012	26/07/2012	10/12/2012	10/12/2012
Matrix_Description				Soil	Soil	Soil	Soil	Soil	Soil		
Analyte Group	**Analyte**	**Units**	**LOR**								
PAH	Leachable benzo(a)pyrene	µg/L	0.1	1	<0.1	<0.1	<1	<1	<1	-	-
Metals	Leachable arsenic	mg/L	<0.05	-	-	<0.05	-	-	-	<0.005	<0.005
	Leachable cadmium	mg/L	<0.005	-	-	<0.005	-	-	-	<0.0005	<0.0005
	Leachable Chromium	mg/L	<0.005	-	-	-	-	-	-	<0.005	<0.005
	Leachable copper	mg/L	<0.005	-	-	0.27	-	-	-	<0.005	<0.005
	Leachable lead	mg/L	0.02	-	0.76	0.08	-	-	-	<0.005	<0.005
	Leachable nickel	mg/L	<0.005	-	-	0.014	-	-	-	<0.0001	<0.0001
	Leachable zinc	mg/L	<0.005	-	-	9.5	-	-	-	<0.005	<0.005
	Leachable Mercury	mg/L	0.0001	-	-	-	-	-	-	<0.005	<0.005

Notes
- Not Analysed

Table 11
Acid Sulfate Soil Screening Results
Haymarket Precinct, Sydney

Field_ID			NBH18_3.0-3.45	NBH21_3.0-3.45	NBH28_3.0-3.4	NBH30_4.5- 4.9	CBH5A_ASS1_3.5m	CBH6_ASS1_2.5m	CBH6_ASS3_3.5m	CBH8_ASS2 (3.5-3.6m)	CBH8_ASS4(4.5-4.6m)	CBH9_ASS1_3.0m
Sampled_Date-Time							27/07/2012	25/07/2012	25/07/2012	24/07/2012	24/07/2012	26/07/2012
Lab_Report_Number			(SE107686)	(SE107815)	(CE77724)	(SE107819)	346177	345835	345835	345664	345664	346021
Chem_Group	**ChemName**	**Units**										
Acid Sulphate Soils Field pH Test	pH-F (Field pH Test)	pH_Units	6.5	6	7.1	8.1	7.5	5.6	7	7.3	7.6	7.7
	pH-FOX (Field pH Peroxide test)	pH_Units	5.1	2	2.1	4.5	5.7	4.5	1.8	1.6	2.2	2.4
	Reaction Ratings	Comment	Low / Slight	High	Volcanic / Vigorous	Volcanic / Vigorous	high	Low	Volcanic	high	Volcanic	high

Notes:
Qualitative Description of Reaction Ratings
Low = Slight Reaction
Medium = Moderate Reaction
High = High Reaction
Volcanic = Very rigorous reaction, gas evolution and heat generation

Table 11
Acid Sulfate Soil Screening Results
Haymarket Precinct, Sydney

Field_ID			CBH9_ASS3_4.0m	CBH9_ASS5_5.0m	CBH10_ASS2_4.0m	CBH11_ASS1_3.5m	CBH11_ASS2_4.0m
Sampled_Date-Time			26/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012
Lab_Report_Number			346021	346021	346021	346177	346177
Chem_Group	**ChemName**	**Units**					
Acid Sulphate Soils Field pH Test	pH-F (Field pH Test)	pH_Units	8.5	8.6	8	8.2	7.7
	pH-FOX (Field pH Peroxide test)	pH_Units	6.1	7.1	4.7	2.6	3
	Reaction Ratings	Comment	volcanic	low	high	volcanic	high

Notes:
Qualitative Description of Reaction Ratings
Low = Slight Reaction
Medium = Moderate Reaction
High = High Reaction
Volcanic = Very rigorous reaction, gas evolution and heat generation

Table 12
Acid Sulfate Soils - Chromium Reducible Sulfur Analytical Results
Haymarket Precinct, Sydney

Field_ID					BH5_8.5m	BH6_9.5	BH12_4.5	BH13_4.0	BH14_2.5
Sampled_Date-Time					15/06/2011	9/06/2011	10/06/2011	9/06/2011	17/06/2011
Lab_Report_Number					SE100735-1	SE100700-1	SE100700-1	SE100700-1	SE100711-1
Chem_Group	**ChemName**	**Units**	**EQL**	Assessment Criteria					
Chromium Reducible Sulfur	pH KCl ·	pH Units	<0.1	-	7.5	5.2	9.2	8	8.6
	s-TAA pH 6.5	%w/wS	<0.01	-	<0.01	0.02	<0.01	<0.01	<0.01
	TAA pH 6.5	mole H+/t	<5	-	<5	11	<5	<5	<5
	Chromium	% w/w	<0.005	0.03% w/w	<0.005	<0.005	0.028	0.92	0.013
	Reducible Sulfur	mole H+/t	<5	-	<5	<5	17	570	8
	SHCl	% w/w	<0.005	-	NA	NA	NA	NA	NA
	S KCl	% w/w	<0.005	-	NA	NA	NA	NA	NA
	S NAS	% w/w	<0.005	-	NA	NA	NA	NA	NA
	Acid Neutralisation Capacity	% CaCO3	<0.1	-	NA	NA	NA	0.8	NA
	s-ANCBT	% w/w S	<0.01	-	NA	NA	NA	0.26	NA
	a-ANCBT	mole H+/t	<5	-	NA	NA	NA	160	NA
	s-Net Acidity	% w/w S	<0.1	-	<0.01	0.02	0.03	0.74	0.01
	a-Net Acidity	mole H+/t	<5	-	<5	12	16	460	6.7
	Liming Rate	kg CaCO3	<0.1	-	NA	NA	NA	35	NA
	Verification s-Net Acidity	% w/w S		-	NA	NA	NA	0.74	NA
	a-Net Acidity without ANC	mole H+/t	<5	-	<5	12	16	570	6.7
	Liming Rate without ANC	kg CaCO3	<0.1	-	NA	NA	NA	43	NA

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

Field_ID	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5
LocCode	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5
Sample_Depth_Range					
Sampled_Date-Time	1/06/2011	1/06/2011	10/06/2011	10/06/2011	10/06/2011
Matrix_Description					
SDG	SE100639-1	SE100639-1	SE100700-1	SE100700-1	SE100700-1

Chem_Group	**ChemName**	**Units**	**LOR**						
TPH	C6 - C9	mg/kg	10 / 20		<20	<20	-	-	-
	C10 - C14	mg/kg	20 / 50		28	23	-	-	-
	C15 - C28	mg/kg	50 / 100		1200	430	-	-	-
	C29 - C36	mg/kg	50 / 100		620	260	-	-	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100		1848	713	-	-	-
PAH	Acenaphthene	mg/kg	0.1 / 0.5		2.3	3.2	<0.1	0.6	0.4
	Acenaphthylene	mg/kg	0.1 / 0.5		12	0.7	0.1	0.7	0.4
	Anthracene	mg/kg	0.1 / 0.5		23	6	0.2	1.3	0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5		55	8.5	0.8	3.9	2.3
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5		47	7	0.63	3.2	1.9
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1		64	3	0.8	3.7	
	Benzo(b)fluoranthene	mg/kg	0.1		-	-	-	-	2.5
	Benzo(k)fluoranthene	mg/kg	0.1		-	-	-	-	0.8
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5		25	4.6	0.3	1.7	0.9
	Chrysene	mg/kg	0.1 / 0.5		40	6.1	0.4	2	1.2
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5		2.7	0.8	<0.1	0.3	0.2
	Fluoranthene	mg/kg	0.1 / 0.5		120	16	1.1	3.9	2.5
	Fluorene	mg/kg	0.1 / 0.5		8.9	3.6	<0.1	0.6	0.3
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5		23	3.9	0.3	1.4	0.8
	Naphthalene	mg/kg	0.1 / 0.5		2.6	2.6	<0.1	0.4	0.3
	Phenanthrene	mg/kg	0.1 / 0.5		84	14	0.5	3.2	1.7
	Pyrene	mg/kg	0.1 / 0.5		120	18	1.2	6.3	3.8
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75			110	5.6	29	17

Chem_Group	**ChemName**	**Units**	**LOR**	**RAC** (refer to Note 2)	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5
TPH	TPH C10 - C14	mg/kg	20 / 50	360	28	23	-	-	-
	TPH C15+	mg/kg	50 / 100	-	1820	690			
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	630	110	5.6	29	17
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	2300	1190	580			

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH12 2.0	BH12 3.0	BH13 1.5	BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)
BH12 2.0	BH12 3.0	BH13 1.5	BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)
				2.5	5.5	1-1.1
10/06/2011	10/06/2011	9/06/2011	9/06/2011	17/06/2011	17/06/2011	21/06/2011
SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100711-1	SE100711-1	SE100739-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	-	-	-	-	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	-	-	-	-	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	-	-	-	-	<50	<50	<50
	C29 - C36	mg/kg	50 / 100	-	-	-	-	<50	<50	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	-	-	-	<120	<120	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	0.1	-	<0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.2	<0.1	<0.1	-	<0.1
	Anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.2	<0.1	0.2	-	<0.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.9	<0.1	0.3	-	0.2
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.05	<0.05	0.88	<0.05	0.29	-	0.06
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<0.1	<0.1	1	<0.1	0.1	-	<0.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.5	<0.1	0.2	-	<0.1
	Chrysene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.6	<0.1	0.3	-	0.1
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	0.1	<0.1	1.1	<0.1	0.6	-	0.2
	Fluorene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	0.1	-	<0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.4	<0.1	0.1	-	<0.1
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.5	<0.1	0.8	-	0.1
	Pyrene	mg/kg	0.1 / 0.5	0.2	<0.1	1.2	<0.1	0.8	-	0.3
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1.75	<1.75	6.5	<1.75	4.2	-	<1.75

Chem_Group	ChemName	Units	LOR	BH12 2.0	BH12 3.0	BH13 1.5	BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)
TPH	TPH C10 - C14	mg/kg	20 / 50	-	-	-	-	<20	<20	<20
	TPH C15+	mg/kg	50 / 100					<50	<50	<50
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1.75	<1.75	6.5	<1.75	4.2	-	<1.75
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-					<50	<50	<50

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 2.5m
BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 2.5m
2.5-2.6						
21/06/2011	16/06/2011	16/06/2011	16/06/2011	16/06/2011	3/06/2011	3/06/2011
SE100739-1	SE100735-1	SE100735-1	SE100735-1	SE100735-1	SE100639-1	SE100639-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	140
	C29 - C36	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	88
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	<120	<120	<120	<120	<120	238
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.05	<0.05	<0.05	-	-	<0.05	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<0.1	<0.1	<0.1	-	-	<0.1	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Chrysene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Fluoranthene	mg/kg	0.1 / 0.5	<0.1	0.2	<0.1	-	-	<0.1	-
	Fluorene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Phenanthrene	mg/kg	0.1 / 0.5	<0.1	0.1	<0.1	-	-	<0.1	-
	Pyrene	mg/kg	0.1 / 0.5	<0.1	0.2	<0.1	-	-	<0.1	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1.75	<1.75	<1.75	-	-	<1.75	-

Chem_Group	ChemName	Units	LOR	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 2.5m
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	<20
	TPH C15+	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	228
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1.75	<1.75	<1.75	-	-	<1.75	-
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<50	<50	<50	<50	<50	<50	228

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 5.5m	BH4 0.5m	BH4 2.0m	BH4 5.5m
BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 5.5m	BH4 0.5m	BH4 2.0m	BH4 5.5m
3/06/2011	2/06/2011	2/06/2011	2/06/2011	6/06/2011	6/06/2011	6/06/2011
SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	130	<50	<50	<50	<50	380	<50
	C29 - C36	mg/kg	50 / 100	92	<50	<50	<50	<50	110	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	232	<120	<120	<120	<120	500	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.1	-	<0.1	<0.5	-
	Acenaphthylene	mg/kg	0.1 / 0.5	0.2	<0.5	<0.1	-	<0.1	<0.5	-
	Anthracene	mg/kg	0.1 / 0.5	0.4	<0.5	<0.1	-	0.1	<0.5	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.9	<0.5	0.1	-	0.3	<0.5	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.86	<0.5	0.1	-	0.35	<0.5	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.3	<1	<0.1	-	0.2	<1	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.5	<0.5	<0.1	-	0.2	<0.5	-
	Chrysene	mg/kg	0.1 / 0.5	0.7	<0.5	<0.1	-	0.3	<0.5	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	0.1	<0.5	<0.1	-	<0.1	<0.5	-
	Fluoranthene	mg/kg	0.1 / 0.5	1.7	<0.5	0.2	-	0.7	0.6	-
	Fluorene	mg/kg	0.1 / 0.5	0.2	<0.5	<0.1	-	<0.1	<0.5	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.4	<0.5	<0.1	-	0.2	<0.5	-
	Naphthalene	mg/kg	0.1 / 0.5	<0.1 - 0.1	<0.1	<0.1	-	<0.1	<0.1	-
	Phenanthrene	mg/kg	0.1 / 0.5	1.1	<0.5	<0.1	-	0.3	<0.5	-
	Pyrene	mg/kg	0.1 / 0.5	1.6	<0.5	0.2	-	0.6	1.2	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	10	-	<1.75	-	3.8	-	-

Chem_Group	ChemName	Units	LOR	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 5.5m	BH4 0.5m	BH4 2.0m	BH4 5.5m
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	<20
	TPH C15+	mg/kg	50 / 100	222	<50	<50	<50	<50	490	<50
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	10	-	<1.75	-	3.8	-	-
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	212	<50	<50	<50	<50	490	<50

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH5_1.5-1.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6
BH5_1.5-1.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6
14/06/2011	14/06/2011	9/06/2011	9/06/2011	9/06/2011	14/06/2011	15/06/2011
SE100735-1	SE100735-1	SE100700-1	SE100700-1	SE100700-1	SE100735-1	SE100735-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	-	-	-	<20	<20
	C10 - C14	mg/kg	20 / 50	<20	<20	-	-	-	<20	<20
	C15 - C28	mg/kg	50 / 100	<50	<50	-	-	-	89	54
	C29 - C36	mg/kg	50 / 100	<50	<50	-	-	-	76	53
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	<120	-	-	-	175	117
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.2
	Anthracene	mg/kg	0.1 / 0.5	0.1	<0.1	<0.1	<0.1	<0.1	0.7	0.2
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.2	<0.1	<0.1	<0.1	<0.1	1.6	0.8
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.24	<0.05	<0.05	<0.05	<0.05	1.5	0.92
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.4	<0.1	<0.1	<0.1	<0.1	0.9	0.5
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.1	<0.1	<0.1	<0.1	<0.1	1	0.7
	Chrysene	mg/kg	0.1 / 0.5	0.2	<0.1	<0.1	<0.1	<0.1	1.4	0.7
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	0.5	<0.1	<0.1	<0.1	<0.1	2.9	1.3
	Fluorene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.1	<0.1	<0.1	<0.1	<0.1	0.8	0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	0.2	<0.1	<0.1	<0.1	<0.1	2.1	0.5
	Pyrene	mg/kg	0.1 / 0.5	0.5	<0.1	<0.1	<0.1	<0.1	2.8	1.4
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.2	<1.75	<1.75	<1.75	<1.75	16	7.1

Chem_Group	ChemName	Units	LOR	BH5_1.5-1.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	<20	-	-	-	<20	<20
	TPH C15+	mg/kg	50 / 100	<50	<50				165	107
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.2	<1.75	<1.75	<1.75	<1.75	16	7.1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<50	<50				149	99.9

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6	EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.6-1.7
EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6	EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.6-1.7
10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011
SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	130	<20	<20	<20	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	4300	290	310	170	<50	320	<50
	C29 - C36	mg/kg	50 / 100	1900	150	140	130	<50	190	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	6330	450	460	310	<120	520	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	35	1.6	2.4	0.2	<0.1	0.4	<0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	1.1	<0.1	<0.1	0.4	<0.1	1.5	<0.1
	Anthracene	mg/kg	0.1 / 0.5	69	3.2	<0.1	1	0.3	2.3	<0.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	160	8.7	<0.1	4	0.4	6.4	0.3
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	74	4.3	<0.05	3.2	0.35	3.9	0.15
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	144	7.9	<0.1	1.2	0.1	1.5	<0.1
	Benzo(b)fluoranthene	mg/kg	0.1	110	6.6	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	34	1.3	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	38	2.3	<0.1	1.9	0.2	2.1	<0.1
	Chrysene	mg/kg	0.1 / 0.5	98	4.5	<0.1	1.9	0.3	3.2	0.1
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	12	0.8	<0.1	0.5	<0.1	0.6	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	220	13	<0.1	5.2	0.8	9.1	0.4
	Fluorene	mg/kg	0.1 / 0.5	50	2.2	<0.1	0.4	0.1	1.5	<0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	32	2.2	<0.1	1.9	0.2	2.2	<0.1
	Naphthalene	mg/kg	0.1 / 0.5	9.8	0.6	0.6	0.3	<0.1	0.7	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	370	15	<0.1	3.2	0.6	7.9	0.3
	Pyrene	mg/kg	0.1 / 0.5	220	12	<0.1	5.4	0.8	8.8	0.3
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	1400	70	3	35	4.7	58	<1.75

Chem_Group	ChemName	Units	LOR	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6	EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.6-1.7
TPH	TPH C10 - C14	mg/kg	20 / 50	130	<20	<20	<20	<20	<20	<20
	TPH C15+	mg/kg	50 / 100	6200	440	450	300	<50	510	<50
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	1400	70	3	35	4.7	58	<1.75
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	4800	370	447	265	<50	452	<50

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7
EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7
10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	18/04/2012	18/04/2012
SE100692-1	SE100692-1	SE107686-1	SE107686-1	SE107686-1	SE107335-1	SE107335-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	190
	C29 - C36	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	55
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	<120	<120	<120	<120	<120	255
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5
	Anthracene	mg/kg	0.1 / 0.5	0.2	<0.1	0.1	<0.1	<0.1	<0.1	1.2
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.4	<0.1	0.3	0.2	<0.1	<0.1	2.2
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.25	<0.05	0.3	0.1	<0.1	<0.1	1.6
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.1	<0.1	0.6	0.2	-	-	2.6
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	0.4	0.2	<0.1	<0.1	1.9
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	0.2	<0.1	<0.1	<0.1	0.7
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.2	<0.1	0.2	0.1	<0.1	<0.1	0.8
	Chrysene	mg/kg	0.1 / 0.5	0.2	<0.1	0.3	0.2	<0.1	<0.1	1.4
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
	Fluoranthene	mg/kg	0.1 / 0.5	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.9
	Fluorene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.7
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.2
	Phenanthrene	mg/kg	0.1 / 0.5	0.6	<0.1	0.5	0.2	<0.1	<0.1	3.1
	Pyrene	mg/kg	0.1 / 0.5	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.7
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	3.8	<1.75	3.3	1.4	<0.8	<0.8	23

Chem_Group	ChemName	Units	LOR	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	<20
	TPH C15+	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	245
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	3.8	<1.75	3.3	1.4	<0.8	<0.8	23
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<50	<50	<50	<50	<50	<50	222

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9	BH29_0.4-0.5	BH29_0.9-1.0
BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9	BH29_0.4-0.5	BH29_0.9-1.0
18/04/2012	24/04/2012	27/04/2012	27/04/2012	27/04/2012	17/04/2012	17/04/2012
SE107335-1	SE107686-1	SE107819-1	SE107819-1	SE107819-1	SE107335-1	SE107335-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	<20	30	<20	<20	<20	20	<20
	C15 - C28	mg/kg	50 / 100	<50	450	<50	<50	<50	2500	840
	C29 - C36	mg/kg	50 / 100	<50	420	<50	<50	<50	1700	380
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	900	<120	<120	<120	4220	1230
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	3	<0.1	<0.1	<0.1	0.2	2.5
	Acenaphthylene	mg/kg	0.1 / 0.5	0.1	1.4	<0.1	<0.1	<0.1	0.1	4.7
	Anthracene	mg/kg	0.1 / 0.5	0.3	3.8	<0.1	<0.1	<0.1	0.7	13
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.6	4.8	<0.1	<0.1	<0.1	0.8	26
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.5	4.4	<0.1	<0.1	<0.1	0.5	16
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.9	7.9	-	-	-	1.1	26.6
	Benzo(b)fluoranthene	mg/kg	0.1	0.6	5.9	<0.1	<0.1	<0.1	0.7	21
	Benzo(k)fluoranthene	mg/kg	0.1	0.3	2	<0.1	<0.1	<0.1	0.4	5.6
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.3	3.2	<0.1	<0.1	<0.1	0.5	9.3
	Chrysene	mg/kg	0.1 / 0.5	0.4	3.6	<0.1	<0.1	<0.1	0.8	14
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<1	<0.1	<0.1	<0.1	<0.1	2.5
	Fluoranthene	mg/kg	0.1 / 0.5	1	15	<0.1	<0.1	<0.1	1.5	53
	Fluorene	mg/kg	0.1 / 0.5	0.1	<1	<0.1	<0.1	<0.1	0.3	5.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.2	2.3	<0.1	<0.1	<0.1	0.3	8.1
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	1.2	<0.1	<0.1	<0.1	0.1	2.6
	Phenanthrene	mg/kg	0.1 / 0.5	0.8	8.2	<0.1	<0.1	<0.1	3.2	69
	Pyrene	mg/kg	0.1 / 0.5	1	14	<0.1	<0.1	<0.1	1.3	51
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	6	73	<0.8	<0.8	<0.8	11	300

Chem_Group	ChemName	Units	LOR	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9	BH29_0.4-0.5	BH29_0.9-1.0
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	30	<20	<20	<20	20	<20
	TPH C15+	mg/kg	50 / 100	<50	870	<50	<50	<50	4200	1220
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	6	73	<0.8	<0.8	<0.8	11	300
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<50	797	<50	<50	<50	4189	920

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_1.5-1.95
BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_1.5-1.95
17/04/2012	27/04/2012	27/04/2012	27/04/2012	27/04/2012	24/04/2012	24/04/2012
SE107335-1	SE107819-1	SE107819-1	SE107819-1	SE107819-1	SE107686-1	SE107686-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	21
	C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	62
	C15 - C28	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	2400
	C29 - C36	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	1100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	<120	<120	<120	<120	<120	3562
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	13
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<1
	Anthracene	mg/kg	0.1 / 0.5	0.2	0.7	<0.1	0.3	<0.1	<0.1	23
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.2	1.2	<0.1	0.5	<0.1	<0.1	50
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.1	1	<0.1	0.6	<0.1	<0.1	30
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.3	1.7	-	0.4	-	-	38
	Benzo(b)fluoranthene	mg/kg	0.1	0.2	1.1	<0.1	<0.1	<0.1	<0.1	28
	Benzo(k)fluoranthene	mg/kg	0.1	0.1	0.6	<0.1	0.4	<0.1	<0.1	10
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	15
	Chrysene	mg/kg	0.1 / 0.5	0.2	0.9	<0.1	0.4	<0.1	<0.1	42
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	3.1
	Fluoranthene	mg/kg	0.1 / 0.5	0.5	2.6	<0.1	1.2	<0.1	<0.1	79
	Fluorene	mg/kg	0.1 / 0.5	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	12
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.1	0.5	<0.1	0.4	<0.1	<0.1	11
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
	Phenanthrene	mg/kg	0.1 / 0.5	0.6	2	<0.1	0.8	<0.1	<0.1	120
	Pyrene	mg/kg	0.1 / 0.5	0.5	2.4	<0.1	1.2	<0.1	<0.1	110
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.3	14	<0.8	<0.8	<0.8	<0.8	550

Chem_Group	ChemName	Units	LOR	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_1.5-1.95
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	62
	TPH C15+	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	3500
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.3	14	<0.8	<0.8	<0.8	<0.8	550
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<50	<50	<50	<50	<50	<50	2950

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	
NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	
24/04/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	
SE107686-1	103789-90	103789-90	103789-90	103789-90	103789-90	103789-90	

Chem_Group	ChemName	Units	LOR						
TPH	C6 - C9	mg/kg	10 / 20	<20	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<20	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<50	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<50	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.3	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	0.2	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	0.1	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	0.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.7	<1	<1	<1	<1	<1	<1

Chem_Group	ChemName	Units	LOR	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<50	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.7	<1	<1	<1	<1	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<50	<50	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH118_(3.5-3.6m)	BH119_(0.11-0.21m	BH119_(0.4-0.5m)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)	BH120_(0.03-0.13m
BH118_(3.5-3.6m)	BH119_(0.11-0.21m	BH119_(0.4-0.5m)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)	BH120_(0.03-0.13m
12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	18/12/2012
103789-90	103787-103788	103787-103788	103787-103788	103787-103788	103787-103788	103797-99

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	<1	<1	<1	<1

Chem_Group	ChemName	Units	LOR	BH118_(3.5-3.6m)	BH119_(0.11-0.21m	BH119_(0.4-0.5m)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)	BH120_(0.03-0.13m
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	<1	<1	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH120_(0.03-0.13m	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A
BH120_(0.03-0.13m	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A
18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012
103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	160	390	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	160	390	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.7	4.1	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	8.9	<0.5	<0.5	<0.5	1.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	1.2	5.6	12	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	1.4	3.9	8.7	<0.5	<0.5	0.7
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	2.2	7.1	15	<1	<1	1.4
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	1	2	4.6	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	1.2	4.8	9.6	<0.5	<0.5	0.8
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	1.9	12	27	<0.5	<0.5	2
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.7	3.8	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	0.8	1.8	4.1	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	1.1	9.1	31	<0.5	<0.5	1.2
	Pyrene	mg/kg	0.1 / 0.5	<0.5	2.1	10	23	<0.5	<0.5	1.7
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	13	67	140	<1	<1	8.9

Chem_Group	ChemName	Units	LOR	BH120_(0.03-0.13m	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	13	67	140	<1	<1	8.9
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	
BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	
18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	
103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	1300	520	350	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	810	270	270	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	2135	790	620	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<5	<5	1.4	<0.5
	Anthracene	mg/kg	0.1 / 0.5	1.2	<0.5	<0.5	7.9	14	3.6	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.7	31	18	10	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.8	<0.5	0.5	22	13	7.8	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	1.1	39	21	13	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	11	6.6	3.8	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.6	23	14	8	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	2.3	<0.5	0.9	55	30	18	0.8
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<5	<5	1.2	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	9.8	<5	3.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1	0.6	0.8	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	1.2	<0.5	<0.5	28	14	14	<0.5
	Pyrene	mg/kg	0.1 / 0.5	2	<0.5	1	53	31	17	0.8
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	7.5	<1	4.8	280	160	100	1.6

Chem_Group	ChemName	Units	LOR	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	2110	790	620	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	7.5	<1	4.8	280	160	100	1.6
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	1830	630	520	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.5-1.6m)	BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	
BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.5-1.6m)	BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	
13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	
103789-90	103789-90	103791-93	103791-93	103791-93	103791-93	103791-93	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	180	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	180	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	1.3	<0.5	1.3	2.2	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	1.3	<0.5	1.2	2.1	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	2	<1	2.1	3.5	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	0.7	<0.5	0.7	1.1	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	1.1	<0.5	1.1	2	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	0.9	2.4	<0.5	2.4	4.2	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	<0.5	0.6	<0.5	0.6	1	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	0.6	1.4	<0.5	1.4	2.7	0.8	<0.5
	Pyrene	mg/kg	0.1 / 0.5	0.9	2.3	<0.5	2.2	4	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.4	13	<1	13	24	<1	<1

Chem_Group	ChemName	Units	LOR	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.5-1.6m)	BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.4	13	<1	13	24	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH122A_(3.4-3.5m)	BH123_(0.08-0.18m	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)
BH122A_(3.4-3.5m)	BH123_(0.08-0.18m	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)
13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
103791-93	103789-90	103789-90	103789-90	103789-90	103791-93	103791-93

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	810	380	<100	140
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	220	100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	1055	505	<100	140
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.6	0.8	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	5.3	4.8	<0.5	0.8
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	12	6	<0.5	1.3
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.6	34	13	<0.5	2.8
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	0.7	30	14	<0.5	2.9
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	1.2	46	20	<1	4.6
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	13	6.7	<0.5	1.8
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.6	27	8.8	<0.5	2.7
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	4	1.6	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	1	58	28	0.9	5.7
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	6.2	3.9	<0.5	0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	12	5.6	<0.5	1.6
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	3	2.7	<0.5	0.6
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	44	19	0.8	4.8
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	1.1	55	25	0.9	5.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	5.2	350	160	2.6	36

Chem_Group	ChemName	Units	LOR	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	1030	480	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	5.2	350	160	2.6	36
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	680	320	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	
BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	
13/12/2012	13/12/2012	13/12/2012	13/12/2012	14/12/2012	14/12/2012	14/12/2012	
103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	110	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	210	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	1.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	2.7	<1	<1	<1	<1	<1	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	1.4	<0.5	<0.5	<0.5	0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	2.5	0.5	<0.5	<0.5	1.1	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	1.1	<0.5	<0.5	<0.5	1	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	2.6	0.5	<0.5	<0.5	1	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	18	1	<1	<1	4.1	<1	-

Chem_Group	ChemName	Units	LOR	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	210	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	18	1	<1	<1	4.1	<1	-
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	192	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)	BH125_(0.23-0.33m
BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)	BH125_(0.23-0.33m
14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	11/12/2012
103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103786

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	620	630	<50	630	660	<50
	C15 - C28	mg/kg	50 / 100	1300	3800	2700	<100	3200	2600	940
	C29 - C36	mg/kg	50 / 100	220	350	220	160	320	310	530
	C10 - C36 (Sum of total)	mg/kg	120 / 100	1630	4770	3550	160	4150	3600	1500
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.1
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	18
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	18
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	27
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	20
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	-	-	-	-	33
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.8
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	18
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.8
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	66
	Fluorene	mg/kg	0.1 / 0.5	-	0.9	1.4	<0.5	1.2	1.1	15
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.4
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	18
	Phenanthrene	mg/kg	0.1 / 0.5	-	1.3	<0.5	<0.5	1.9	1.6	87
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	54
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	-	-	-	-	-	390

Chem_Group	ChemName	Units	LOR	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)	BH125_(0.23-0.33m
TPH	TPH C10 - C14	mg/kg	20 / 50	110	620	630	<50	630	660	<50
	TPH C15+	mg/kg	50 / 100	1520	4150	2920	160	3520	2910	1470
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	-	-	-	-	-	390
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	1520	4150	2920	160	3520	2910	1080

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH125_(0.23-0.33m	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)	BH125A_(2.0-2.1M)
BH125_(0.23-0.33m	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)	BH125A_(2.0-2.1M)
11/12/2012	11/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
103786	103786	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	740	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	470	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	1235	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	13	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	31	1	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	25	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	39	1.4	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	24	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	3.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	65	1.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	4.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	9.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	65	1.4	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	64	1.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	370	9.7	<1	<1	<1	<1	<1

Chem_Group	ChemName	Units	LOR	BH125_(0.23-0.33m	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)	BH125A_(2.0-2.1M)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	1210	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	370	9.7	<1	<1	<1	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	840	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH125A_(3.0-3.1M)	BH126_(0.31-0.41m	BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A
BH125A_(3.0-3.1M)	BH126_(0.31-0.41m	BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A
17/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	10/12/2012
103794-103796	103787-103788	103787-103788	103787-103788	103787-103788	103787-103788	103784-103785

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	250	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	250	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	0.7	1.3	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.3	4.1	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	0.9	3.1	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	1.6	5.9	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.1	3.1	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.8	7.3	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.2	3.7	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.5	5.9	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	13	38	<1	<1

Chem_Group	ChemName	Units	LOR	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m	BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	250	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	13	38	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	250	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M
BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M
10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	17/12/2012
103784-103785	103786	103786	103786	103786	103786	103794-103796

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	250	350	190	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	550	860	730	260	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	800	1235	945	260	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	3.7	2.3	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	0.5	6.7	3.6	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	0.8	15	7.4	<0.5	<0.5	0.6
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	0.8	12	5.9	<0.5	<0.5	0.7
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	1.3	20	9.7	<1	<1	1.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	4.9	2.6	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	0.7	11	5.1	<0.5	<0.5	0.6
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	1.9	31	16	<0.5	0.5	1.2
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	3.1	1.8	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	4.4	2.2	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	1	0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	1.2	21	13	<0.5	<0.5	0.7
	Pyrene	mg/kg	0.1 / 0.5	<0.5	1.9	28	14	<0.5	<0.5	1.2
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	9.1	160	84	<1	<1	6.1

Chem_Group	ChemName	Units	LOR	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	800	1210	920	260	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	9.1	160	84	<1	<1	6.1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	790.9	1050	836	260	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH128_(0.28-0.38M	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	
BH128_(0.28-0.38M	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	
17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	
103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	110	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	110	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	2.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	2.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	4.4	1.2	0.7	1.2	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	2.9	1.2	0.9	1.4	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	5	2.1	1.6	2.3	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	1.6	0.9	0.7	1.1	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	3	1.2	0.8	1.2	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	8.8	2	1.2	2	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	1.6	0.7	0.6	0.9	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	11	1.2	<0.5	0.8	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	7.4	2	1.3	2	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	53	13	7.8	13	<1	<1	<1

Chem_Group	ChemName	Units	LOR	BH128_(0.28-0.38M	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	53	13	7.8	13	<1	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH129_(0.24-0.28M	BH129_(0.28-0.38M	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	
BH129_(0.24-0.28M	BH129_(0.28-0.38M	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	
10/12/2012	10/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	
103784-103785	103784-103785	103787-103788	103787-103788	103787-103788	103787-103788	103787-103788	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.9	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	0.6	<0.5	<0.5	3.4	0.8	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	0.6	<0.5	<0.5	2.9	0.7	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	1.1	<1	<1	4.7	1.1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	0.6	<0.5	<0.5	3.7	0.7	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	1	1	1	11	1.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	9.9	0.7	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	1	0.9	0.9	9.2	1.4	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	4.9	1.9	1.9	51	6.9	<1

Chem_Group	ChemName	Units	LOR	BH129_(0.24-0.28M	BH129_(0.28-0.38M	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	4.9	1.9	1.9	51	6.9	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)
BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)
11/12/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	25/07/2012	26/07/2012
103787-103788	92455-57	92455-57	92455-57	92455-57	89249-50	92458-59

Chem_Group	ChemName	Units	LOR						
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	470	690	<100	<100	<100	540
	C29 - C36	mg/kg	50 / 100	<100	200	420	<100	<100	<100	280
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	670	1135	<100	<100	<100	820
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	5	<0.5	<0.5	<0.5	2
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	3.5	0.7	<0.5	<0.5	<0.5	0.7
	Anthracene	mg/kg	0.1 / 0.5	<0.5	8.2	12	<0.5	<0.5	<0.5	5.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	16	20	<0.5	<0.5	0.6	11
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	10	19	<0.5	<0.5	0.6	7.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	17	28	<1	<1	1.1	13
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	5.1	11	<0.5	<0.5	<0.5	3.2
	Chrysene	mg/kg	0.1 / 0.5	<0.5	9.2	13	<0.5	<0.5	0.6	6.7
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	37	50	0.6	<0.5	1.2	18
	Fluorene	mg/kg	0.1 / 0.5	<0.5	1.9	5.1	<0.5	<0.5	<0.5	2.7
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	4.2	8.6	<0.5	<0.5	<0.5	3.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	0.6	3.8	<0.5	<0.5	<0.5	1
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	32	42	0.7	<0.5	0.7	16
	Pyrene	mg/kg	0.1 / 0.5	<0.5	31	43	<0.5	<0.5	1.2	18
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	180	260	1.3	<1	6	110

Chem_Group	ChemName	Units	LOR	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	670	1110	<100	<100	<100	820
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	180	260	1.3	<1	6	110
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	490	850	<100	<100	<100	710

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)	CBH5A_(2.0-2.1m)	
CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)	CBH5A_(2.0-2.1m)	
26/07/2012	26/07/2012	25/07/2012	25/07/2012	25/07/2012	27/07/2012	27/07/2012	
92458-59	92458-59	89249-50	89249-50	89249-50	92458-59	92458-59	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	1.8	<0.5	<0.5	<0.5	1.1	<0.5	0.8
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	1.1	<0.5	<0.5	<0.5	0.9	<0.5	0.9
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	2	<1	<1	<1	1.4	<1	1.4
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.5	<0.5	<0.5	<0.5	0.6	<0.5	0.5
	Chrysene	mg/kg	0.1 / 0.5	1.3	<0.5	<0.5	<0.5	0.8	<0.5	0.7
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	3.5	<0.5	<0.5	<0.5	1.8	<0.5	1.6
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	3.2	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	3.7	<0.5	<0.5	<0.5	1.7	<0.5	1.7
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	19	<1	<1	<1	9.2	<1	7.6

Chem_Group	ChemName	Units	LOR	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)	CBH5A_(2.0-2.1m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	19	<1	<1	<1	9.2	<1	7.6
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	
CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	
27/07/2012	27/07/2012	25/07/2012	25/07/2012	25/07/2012	25/07/2012	24/07/2012	
92458-59	92458-59	89249-50	89249-50	89249-50	89249-50	89247-48	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	1.4	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	2.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	2	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	9.4	<1	<1	<1	<1	<1

Chem_Group	ChemName	Units	LOR	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	9.4	<1	<1	<1	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)
CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)
24/07/2012	24/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012	24/07/2012
89247-48	89247-48	92458-59	92458-59	92458-59	89247-48	89247-48

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	2.8	<0.5	<0.5	0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	4.3	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	7.4	<0.5	0.7	0.9	0.7	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	6.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	6	<0.5	0.6	0.9	0.7	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	39	<1	1.3	2.3	1.4	<1

Chem_Group	ChemName	Units	LOR	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	39	<1	1.3	2.3	1.4	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
24/07/2012	24/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012
89247-48	89247-48	92455-57	92455-57	92455-57	92455-57

Chem_Group	ChemName	Units	LOR						
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	210	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	580	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	790	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	5.8	1.1	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	6	1.8	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	9.1	2.8	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	3.7	1.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	4	1.1	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	12	1.6	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.7	1	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	8.9	0.6	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	11	1.8	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	68	13	<1

Chem_Group	ChemName	Units	LOR	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	790	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	68	13	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	722	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

Field_ID	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5
LocCode	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5
Sample_Depth_Range					
Sampled_Date-Time	1/06/2011	1/06/2011	10/06/2011	10/06/2011	10/06/2011
Matrix_Description					
SDG	SE100639-1	SE100639-1	SE100700-1	SE100700-1	SE100700-1

Chem_Group	**ChemName**	**Units**	**LOR**						
TPH	C6 - C9	mg/kg	10 / 20		<20	<20	-	-	-
	C10 - C14	mg/kg	20 / 50		28	23	-	-	-
	C15 - C28	mg/kg	50 / 100		1200	430	-	-	-
	C29 - C36	mg/kg	50 / 100		620	260	-	-	-
	C10 - C36 (Sum of total)	mg/kg	120 / 100		1848	713	-	-	-
PAH	Acenaphthene	mg/kg	0.1 / 0.5		2.3	3.2	<0.1	0.6	0.4
	Acenaphthylene	mg/kg	0.1 / 0.5		12	0.7	0.1	0.7	0.4
	Anthracene	mg/kg	0.1 / 0.5		23	6	0.2	1.3	0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5		55	8.5	0.8	3.9	2.3
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5		47	7	0.63	3.2	1.9
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1		64	3	0.8	3.7	
	Benzo(b)fluoranthene	mg/kg	0.1		-	-	-	-	2.5
	Benzo(k)fluoranthene	mg/kg	0.1		-	-	-	-	0.8
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5		25	4.6	0.3	1.7	0.9
	Chrysene	mg/kg	0.1 / 0.5		40	6.1	0.4	2	1.2
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5		2.7	0.8	<0.1	0.3	0.2
	Fluoranthene	mg/kg	0.1 / 0.5		120	16	1.1	3.9	2.5
	Fluorene	mg/kg	0.1 / 0.5		8.9	3.6	<0.1	0.6	0.3
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5		23	3.9	0.3	1.4	0.8
	Naphthalene	mg/kg	0.1 / 0.5		2.6	2.6	<0.1	0.4	0.3
	Phenanthrene	mg/kg	0.1 / 0.5		84	14	0.5	3.2	1.7
	Pyrene	mg/kg	0.1 / 0.5		120	18	1.2	6.3	3.8
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75			110	5.6	29	17

Chem_Group	**ChemName**	**Units**	**LOR**	**RAC** (refer to Note 2)	BH11 0.5m	BH11 1.0m	BH12 0.5	BH12 1.0	BH12 1.5
TPH	TPH C10 - C14	mg/kg	20 / 50	360	28	23	-	-	-
	TPH C15+	mg/kg	50 / 100	-	1820	690			
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	630	110	5.6	29	17
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	2300	1190	580			

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH12 2.0	BH12 3.0	BH13 1.5	BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)
BH12 2.0	BH12 3.0	BH13 1.5	BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)
				2.5	5.5	1-1.1
10/06/2011	10/06/2011	9/06/2011	9/06/2011	17/06/2011	17/06/2011	21/06/2011
SE100700-1	SE100700-1	SE100700-1	SE100700-1	SE100711-1	SE100711-1	SE100739-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	-	-	-	-	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	-	-	-	-	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	-	-	-	-	<50	<50	<50
	C29 - C36	mg/kg	50 / 100	-	-	-	-	<50	<50	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	-	-	-	-	<120	<120	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	0.1	-	<0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.2	<0.1	<0.1	-	<0.1
	Anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.2	<0.1	0.2	-	<0.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.9	<0.1	0.3	-	0.2
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.05	<0.05	0.88	<0.05	0.29	-	0.06
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<0.1	<0.1	1	<0.1	0.1	-	<0.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.5	<0.1	0.2	-	<0.1
	Chrysene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.6	<0.1	0.3	-	0.1
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	0.1	<0.1	1.1	<0.1	0.6	-	0.2
	Fluorene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	0.1	-	<0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.4	<0.1	0.1	-	<0.1
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.5	<0.1	0.8	-	0.1
	Pyrene	mg/kg	0.1 / 0.5	0.2	<0.1	1.2	<0.1	0.8	-	0.3
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1.75	<1.75	6.5	<1.75	4.2	-	<1.75

Chem_Group	ChemName	Units	LOR	BH12 2.0	BH12 3.0	BH13 1.5	BH13 4.0	BH14_2.5	BH14_5.5	BH15_(1.0-1.1m)
TPH	TPH C10 - C14	mg/kg	20 / 50	-	-	-	-	<20	<20	<20
	TPH C15+	mg/kg	50 / 100					<50	<50	<50
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1.75	<1.75	6.5	<1.75	4.2	-	<1.75
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-					<50	<50	<50

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 2.5m
BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 2.5m
2.5-2.6						
21/06/2011	16/06/2011	16/06/2011	16/06/2011	16/06/2011	3/06/2011	3/06/2011
SE100739-1	SE100735-1	SE100735-1	SE100735-1	SE100735-1	SE100639-1	SE100639-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	140
	C29 - C36	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	88
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	<120	<120	<120	<120	<120	238
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.05	<0.05	<0.05	-	-	<0.05	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<0.1	<0.1	<0.1	-	-	<0.1	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Chrysene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Fluoranthene	mg/kg	0.1 / 0.5	<0.1	0.2	<0.1	-	-	<0.1	-
	Fluorene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	-	-	<0.1	-
	Phenanthrene	mg/kg	0.1 / 0.5	<0.1	0.1	<0.1	-	-	<0.1	-
	Pyrene	mg/kg	0.1 / 0.5	<0.1	0.2	<0.1	-	-	<0.1	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1.75	<1.75	<1.75	-	-	<1.75	-

Chem_Group	ChemName	Units	LOR	BH15_(2.5-2.6m)	BH17_1-1.1	BH17_2-2.1	BH17_5-5.1	BH17_8-8.1	BH2 0.6m	BH2 2.5m
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	<20
	TPH C15+	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	228
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1.75	<1.75	<1.75	-	-	<1.75	-
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<50	<50	<50	<50	<50	<50	228

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 5.5m	BH4 0.5m	BH4 2.0m	BH4 5.5m
BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 5.5m	BH4 0.5m	BH4 2.0m	BH4 5.5m
3/06/2011	2/06/2011	2/06/2011	2/06/2011	6/06/2011	6/06/2011	6/06/2011
SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1	SE100639-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	130	<50	<50	<50	<50	380	<50
	C29 - C36	mg/kg	50 / 100	92	<50	<50	<50	<50	110	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	232	<120	<120	<120	<120	500	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.1	-	<0.1	<0.5	-
	Acenaphthylene	mg/kg	0.1 / 0.5	0.2	<0.5	<0.1	-	<0.1	<0.5	-
	Anthracene	mg/kg	0.1 / 0.5	0.4	<0.5	<0.1	-	0.1	<0.5	-
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.9	<0.5	0.1	-	0.3	<0.5	-
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.86	<0.5	0.1	-	0.35	<0.5	-
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.3	<1	<0.1	-	0.2	<1	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.5	<0.5	<0.1	-	0.2	<0.5	-
	Chrysene	mg/kg	0.1 / 0.5	0.7	<0.5	<0.1	-	0.3	<0.5	-
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	0.1	<0.5	<0.1	-	<0.1	<0.5	-
	Fluoranthene	mg/kg	0.1 / 0.5	1.7	<0.5	0.2	-	0.7	0.6	-
	Fluorene	mg/kg	0.1 / 0.5	0.2	<0.5	<0.1	-	<0.1	<0.5	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.4	<0.5	<0.1	-	0.2	<0.5	-
	Naphthalene	mg/kg	0.1 / 0.5	<0.1 - 0.1	<0.1	<0.1	-	<0.1	<0.1	-
	Phenanthrene	mg/kg	0.1 / 0.5	1.1	<0.5	<0.1	-	0.3	<0.5	-
	Pyrene	mg/kg	0.1 / 0.5	1.6	<0.5	0.2	-	0.6	1.2	-
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	10	-	<1.75	-	3.8	-	-

Chem_Group	ChemName	Units	LOR	BH2 2-2.2m	BH3 0.5m	BH3 1.0m	BH3 5.5m	BH4 0.5m	BH4 2.0m	BH4 5.5m
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	<20
	TPH C15+	mg/kg	50 / 100	222	<50	<50	<50	<50	490	<50
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	10	-	<1.75	-	3.8	-	-
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	212	<50	<50	<50	<50	490	<50

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH5_1.5-1.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6
BH5_1.5-1.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6
14/06/2011	14/06/2011	9/06/2011	9/06/2011	9/06/2011	14/06/2011	15/06/2011
SE100735-1	SE100735-1	SE100700-1	SE100700-1	SE100700-1	SE100735-1	SE100735-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	-	-	-	<20	<20
	C10 - C14	mg/kg	20 / 50	<20	<20	-	-	-	<20	<20
	C15 - C28	mg/kg	50 / 100	<50	<50	-	-	-	89	54
	C29 - C36	mg/kg	50 / 100	<50	<50	-	-	-	76	53
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	<120	-	-	-	175	117
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.2
	Anthracene	mg/kg	0.1 / 0.5	0.1	<0.1	<0.1	<0.1	<0.1	0.7	0.2
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.2	<0.1	<0.1	<0.1	<0.1	1.6	0.8
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.24	<0.05	<0.05	<0.05	<0.05	1.5	0.92
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.4	<0.1	<0.1	<0.1	<0.1	0.9	0.5
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.1	<0.1	<0.1	<0.1	<0.1	1	0.7
	Chrysene	mg/kg	0.1 / 0.5	0.2	<0.1	<0.1	<0.1	<0.1	1.4	0.7
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	0.5	<0.1	<0.1	<0.1	<0.1	2.9	1.3
	Fluorene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.1	<0.1	<0.1	<0.1	<0.1	0.8	0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	0.2	<0.1	<0.1	<0.1	<0.1	2.1	0.5
	Pyrene	mg/kg	0.1 / 0.5	0.5	<0.1	<0.1	<0.1	<0.1	2.8	1.4
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.2	<1.75	<1.75	<1.75	<1.75	16	7.1

Chem_Group	ChemName	Units	LOR	BH5_1.5-1.6	BH5_4-4.1	BH6 14.0	BH6 2.0	BH6 6.0	BH8_0.5-0.6	BH9_0.5-0.6
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	<20	-	-	-	<20	<20
	TPH C15+	mg/kg	50 / 100	<50	<50				165	107
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.2	<1.75	<1.75	<1.75	<1.75	16	7.1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<50	<50				149	99.9

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6	EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.6-1.7
EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6	EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.6-1.7
10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011	10/06/2011
SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1	SE100692-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	130	<20	<20	<20	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	4300	290	310	170	<50	320	<50
	C29 - C36	mg/kg	50 / 100	1900	150	140	130	<50	190	<50
	C10 - C36 (Sum of total)	mg/kg	120 / 100	6330	450	460	310	<120	520	<120
PAH	Acenaphthene	mg/kg	0.1 / 0.5	35	1.6	2.4	0.2	<0.1	0.4	<0.1
	Acenaphthylene	mg/kg	0.1 / 0.5	1.1	<0.1	<0.1	0.4	<0.1	1.5	<0.1
	Anthracene	mg/kg	0.1 / 0.5	69	3.2	<0.1	1	0.3	2.3	<0.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	160	8.7	<0.1	4	0.4	6.4	0.3
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	74	4.3	<0.05	3.2	0.35	3.9	0.15
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	144	7.9	<0.1	1.2	0.1	1.5	<0.1
	Benzo(b)fluoranthene	mg/kg	0.1	110	6.6	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	34	1.3	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	38	2.3	<0.1	1.9	0.2	2.1	<0.1
	Chrysene	mg/kg	0.1 / 0.5	98	4.5	<0.1	1.9	0.3	3.2	0.1
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	12	0.8	<0.1	0.5	<0.1	0.6	<0.1
	Fluoranthene	mg/kg	0.1 / 0.5	220	13	<0.1	5.2	0.8	9.1	0.4
	Fluorene	mg/kg	0.1 / 0.5	50	2.2	<0.1	0.4	0.1	1.5	<0.1
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	32	2.2	<0.1	1.9	0.2	2.2	<0.1
	Naphthalene	mg/kg	0.1 / 0.5	9.8	0.6	0.6	0.3	<0.1	0.7	<0.1
	Phenanthrene	mg/kg	0.1 / 0.5	370	15	<0.1	3.2	0.6	7.9	0.3
	Pyrene	mg/kg	0.1 / 0.5	220	12	<0.1	5.4	0.8	8.8	0.3
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	1400	70	3	35	4.7	58	<1.75

Chem_Group	ChemName	Units	LOR	EB1/1.4-1.5	EB1/2.0-2.1	EB1/3.0-3.1	EB2/0.5-0.6	EB2/2.0-2.1	EB3/1.0-1.1	EB3/1.6-1.7
TPH	TPH C10 - C14	mg/kg	20 / 50	130	<20	<20	<20	<20	<20	<20
	TPH C15+	mg/kg	50 / 100	6200	440	450	300	<50	510	<50
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	1400	70	3	35	4.7	58	<1.75
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	4800	370	447	265	<50	452	<50

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7
EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7
10/06/2011	10/06/2011	24/04/2012	24/04/2012	24/04/2012	18/04/2012	18/04/2012
SE100692-1	SE100692-1	SE107686-1	SE107686-1	SE107686-1	SE107335-1	SE107335-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	<20
	C15 - C28	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	190
	C29 - C36	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	55
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	<120	<120	<120	<120	<120	255
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5
	Anthracene	mg/kg	0.1 / 0.5	0.2	<0.1	0.1	<0.1	<0.1	<0.1	1.2
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.4	<0.1	0.3	0.2	<0.1	<0.1	2.2
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.25	<0.05	0.3	0.1	<0.1	<0.1	1.6
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.1	<0.1	0.6	0.2	-	-	2.6
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	0.4	0.2	<0.1	<0.1	1.9
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	0.2	<0.1	<0.1	<0.1	0.7
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.2	<0.1	0.2	0.1	<0.1	<0.1	0.8
	Chrysene	mg/kg	0.1 / 0.5	0.2	<0.1	0.3	0.2	<0.1	<0.1	1.4
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
	Fluoranthene	mg/kg	0.1 / 0.5	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.9
	Fluorene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.7
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.2
	Phenanthrene	mg/kg	0.1 / 0.5	0.6	<0.1	0.5	0.2	<0.1	<0.1	3.1
	Pyrene	mg/kg	0.1 / 0.5	0.7	<0.1	0.5	0.2	<0.1	<0.1	3.7
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	3.8	<1.75	3.3	1.4	<0.8	<0.8	23

Chem_Group	ChemName	Units	LOR	EB3/2.0-2.1	EB3/3.0-3.1	BH23_0.5-0.6	BH23_1.5-1.95	BH23_3-3.45	BH25_0.5-0.6	BH25_1.5-1.7
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	<20
	TPH C15+	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	245
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	3.8	<1.75	3.3	1.4	<0.8	<0.8	23
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<50	<50	<50	<50	<50	<50	222

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9	BH29_0.4-0.5	BH29_0.9-1.0
BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9	BH29_0.4-0.5	BH29_0.9-1.0
18/04/2012	24/04/2012	27/04/2012	27/04/2012	27/04/2012	17/04/2012	17/04/2012
SE107335-1	SE107686-1	SE107819-1	SE107819-1	SE107819-1	SE107335-1	SE107335-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	<20
	C10 - C14	mg/kg	20 / 50	<20	30	<20	<20	<20	20	<20
	C15 - C28	mg/kg	50 / 100	<50	450	<50	<50	<50	2500	840
	C29 - C36	mg/kg	50 / 100	<50	420	<50	<50	<50	1700	380
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	900	<120	<120	<120	4220	1230
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	3	<0.1	<0.1	<0.1	0.2	2.5
	Acenaphthylene	mg/kg	0.1 / 0.5	0.1	1.4	<0.1	<0.1	<0.1	0.1	4.7
	Anthracene	mg/kg	0.1 / 0.5	0.3	3.8	<0.1	<0.1	<0.1	0.7	13
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.6	4.8	<0.1	<0.1	<0.1	0.8	26
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.5	4.4	<0.1	<0.1	<0.1	0.5	16
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.9	7.9	-	-	-	1.1	26.6
	Benzo(b)fluoranthene	mg/kg	0.1	0.6	5.9	<0.1	<0.1	<0.1	0.7	21
	Benzo(k)fluoranthene	mg/kg	0.1	0.3	2	<0.1	<0.1	<0.1	0.4	5.6
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.3	3.2	<0.1	<0.1	<0.1	0.5	9.3
	Chrysene	mg/kg	0.1 / 0.5	0.4	3.6	<0.1	<0.1	<0.1	0.8	14
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<1	<0.1	<0.1	<0.1	<0.1	2.5
	Fluoranthene	mg/kg	0.1 / 0.5	1	15	<0.1	<0.1	<0.1	1.5	53
	Fluorene	mg/kg	0.1 / 0.5	0.1	<1	<0.1	<0.1	<0.1	0.3	5.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	0.2	2.3	<0.1	<0.1	<0.1	0.3	8.1
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	1.2	<0.1	<0.1	<0.1	0.1	2.6
	Phenanthrene	mg/kg	0.1 / 0.5	0.8	8.2	<0.1	<0.1	<0.1	3.2	69
	Pyrene	mg/kg	0.1 / 0.5	1	14	<0.1	<0.1	<0.1	1.3	51
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	6	73	<0.8	<0.8	<0.8	11	300

Chem_Group	ChemName	Units	LOR	BH25_4.5-4.9	BH26_Surface	BH27_1.5-1.9	BH27_3.0-3.4	BH27_4.5-4.9	BH29_0.4-0.5	BH29_0.9-1.0
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	30	<20	<20	<20	20	<20
	TPH C15+	mg/kg	50 / 100	<50	870	<50	<50	<50	4200	1220
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	6	73	<0.8	<0.8	<0.8	11	300
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<50	797	<50	<50	<50	4189	920

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_1.5-1.95
BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_1.5-1.95
17/04/2012	27/04/2012	27/04/2012	27/04/2012	27/04/2012	24/04/2012	24/04/2012
SE107335-1	SE107819-1	SE107819-1	SE107819-1	SE107819-1	SE107686-1	SE107686-1

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<20	<20	<20	<20	<20	<20	21
	C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	62
	C15 - C28	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	2400
	C29 - C36	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	1100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	<120	<120	<120	<120	<120	3562
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	13
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<1
	Anthracene	mg/kg	0.1 / 0.5	0.2	0.7	<0.1	0.3	<0.1	<0.1	23
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.2	1.2	<0.1	0.5	<0.1	<0.1	50
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.1	1	<0.1	0.6	<0.1	<0.1	30
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.3	1.7	-	0.4	-	-	38
	Benzo(b)fluoranthene	mg/kg	0.1	0.2	1.1	<0.1	<0.1	<0.1	<0.1	28
	Benzo(k)fluoranthene	mg/kg	0.1	0.1	0.6	<0.1	0.4	<0.1	<0.1	10
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	15
	Chrysene	mg/kg	0.1 / 0.5	0.2	0.9	<0.1	0.4	<0.1	<0.1	42
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	3.1
	Fluoranthene	mg/kg	0.1 / 0.5	0.5	2.6	<0.1	1.2	<0.1	<0.1	79
	Fluorene	mg/kg	0.1 / 0.5	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	12
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.1	0.5	<0.1	0.4	<0.1	<0.1	11
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1
	Phenanthrene	mg/kg	0.1 / 0.5	0.6	2	<0.1	0.8	<0.1	<0.1	120
	Pyrene	mg/kg	0.1 / 0.5	0.5	2.4	<0.1	1.2	<0.1	<0.1	110
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.3	14	<0.8	<0.8	<0.8	<0.8	550

Chem_Group	ChemName	Units	LOR	BH29_2.0-2.1	BH30_0.5-0.6	BH30_1.5-1.9	BH30_3.0-5.4	BH30_4.5-4.9	NBH24_0-0.1	NBH24_1.5-1.95
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	<20	<20	<20	<20	<20	62
	TPH C15+	mg/kg	50 / 100	<50	<50	<50	<50	<50	<50	3500
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.3	14	<0.8	<0.8	<0.8	<0.8	550
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<50	<50	<50	<50	<50	<50	2950

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	
NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)	
24/04/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	
SE107686-1	103789-90	103789-90	103789-90	103789-90	103789-90	103789-90	

Chem_Group	ChemName	Units	LOR						
TPH	C6 - C9	mg/kg	10 / 20	<20	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<20	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<50	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<50	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<120	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	0.3	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	0.2	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	0.1	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	0.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.7	<1	<1	<1	<1	<1	<1

Chem_Group	ChemName	Units	LOR	NBH24_3.0-3.45	BH118_(0.5-0.6m)_A	BH118_(0.5-0.6m)	BH118_(1.0-1.1m)	BH118_(2.0-2.1m)_A	BH118_(2.0-2.1m)	BH118_(3.0-3.1m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<20	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<50	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.7	<1	<1	<1	<1	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<50	<50	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH118_(3.5-3.6m)	BH119_(0.11-0.21m	BH119_(0.4-0.5m)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)	BH120_(0.03-0.13m
BH118_(3.5-3.6m)	BH119_(0.11-0.21m	BH119_(0.4-0.5m)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)	BH120_(0.03-0.13m
12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	18/12/2012
103789-90	103787-103788	103787-103788	103787-103788	103787-103788	103787-103788	103797-99

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	<1	<1	<1	<1

Chem_Group	ChemName	Units	LOR	BH118_(3.5-3.6m)	BH119_(0.11-0.21m	BH119_(0.4-0.5m)	BH119_(1.4-1.5m)_A	BH119_(1.4-1.5m)	BH119_(2.1-2.3m)	BH120_(0.03-0.13m
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	<1	<1	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH120_(0.03-0.13m	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A
BH120_(0.03-0.13m	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A
18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012
103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	160	390	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	160	390	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.7	4.1	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	8.9	<0.5	<0.5	<0.5	1.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	1.2	5.6	12	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	1.4	3.9	8.7	<0.5	<0.5	0.7
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	2.2	7.1	15	<1	<1	1.4
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	1	2	4.6	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	1.2	4.8	9.6	<0.5	<0.5	0.8
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	1.9	12	27	<0.5	<0.5	2
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.7	3.8	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	0.8	1.8	4.1	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	1.1	9.1	31	<0.5	<0.5	1.2
	Pyrene	mg/kg	0.1 / 0.5	<0.5	2.1	10	23	<0.5	<0.5	1.7
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	13	67	140	<1	<1	8.9

Chem_Group	ChemName	Units	LOR	BH120_(0.03-0.13m	BH120_(1.0-1.1m)	BH120_(1.5-1.6m)_A	BH120_(1.5-1.6m)	BH120_(2.4-2.5m)	BH120_(3.5-3.6m)	BH121_(0.5-0.6m)_A
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	13	67	140	<1	<1	8.9
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	
BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)	
18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	18/12/2012	
103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	103797-99	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	1300	520	350	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	810	270	270	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	2135	790	620	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<5	<5	1.4	<0.5
	Anthracene	mg/kg	0.1 / 0.5	1.2	<0.5	<0.5	7.9	14	3.6	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.7	31	18	10	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	0.8	<0.5	0.5	22	13	7.8	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	1.1	39	21	13	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	11	6.6	3.8	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.6	23	14	8	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	2.3	<0.5	0.9	55	30	18	0.8
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<5	<5	1.2	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	9.8	<5	3.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1	0.6	0.8	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	1.2	<0.5	<0.5	28	14	14	<0.5
	Pyrene	mg/kg	0.1 / 0.5	2	<0.5	1	53	31	17	0.8
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	7.5	<1	4.8	280	160	100	1.6

Chem_Group	ChemName	Units	LOR	BH121_(0.5-0.6m)	BH121_(3.4-3.5m)	BH121A_(0.5-0.6m)	BH121A_(1.0-1.1m)	BH121A_(1.0-1.1m)	BH121A_(1.5-1.6m)	BH121A_(2.5-2.6m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	2110	790	620	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	7.5	<1	4.8	280	160	100	1.6
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	1830	630	520	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.5-1.6m)	BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	
BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.5-1.6m)	BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)	
13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	
103789-90	103789-90	103791-93	103791-93	103791-93	103791-93	103791-93	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	180	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	180	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	1.3	<0.5	1.3	2.2	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	1.3	<0.5	1.2	2.1	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	2	<1	2.1	3.5	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	0.7	<0.5	0.7	1.1	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	1.1	<0.5	1.1	2	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	0.9	2.4	<0.5	2.4	4.2	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	<0.5	0.6	<0.5	0.6	1	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	0.6	1.4	<0.5	1.4	2.7	0.8	<0.5
	Pyrene	mg/kg	0.1 / 0.5	0.9	2.3	<0.5	2.2	4	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.4	13	<1	13	24	<1	<1

Chem_Group	ChemName	Units	LOR	BH122_(0.5-0.6m)	BH122_(1.5-1.6m)	BH122A_(0.5-0.6m)	BH122A_(1.5-1.6m)	BH122A_(1.5-1.6m)	BH122A_(2.0-2.1m)	BH122A_(3.0-3.1m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	2.4	13	<1	13	24	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH122A_(3.4-3.5m)	BH123_(0.08-0.18m	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)
BH122A_(3.4-3.5m)	BH123_(0.08-0.18m	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)
13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012	13/12/2012
103791-93	103789-90	103789-90	103789-90	103789-90	103791-93	103791-93

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	810	380	<100	140
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	220	100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	1055	505	<100	140
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.6	0.8	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	5.3	4.8	<0.5	0.8
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	12	6	<0.5	1.3
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.6	34	13	<0.5	2.8
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	0.7	30	14	<0.5	2.9
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	1.2	46	20	<1	4.6
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	13	6.7	<0.5	1.8
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	0.6	27	8.8	<0.5	2.7
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	4	1.6	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	1	58	28	0.9	5.7
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	6.2	3.9	<0.5	0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	12	5.6	<0.5	1.6
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	3	2.7	<0.5	0.6
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	44	19	0.8	4.8
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	1.1	55	25	0.9	5.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	5.2	350	160	2.6	36

Chem_Group	ChemName	Units	LOR	BH122A_(3.4-3.5m)	BH123_(0.08-0.18m	BH123_(0.5-0.6m)	BH123_(1.5-1.6m)_A	BH123_(1.5-1.6m)	BH123A_(0.5-0.6m)	BH123A_(1.0-1.1m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	1030	480	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	5.2	350	160	2.6	36
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	680	320	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	
BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)	
13/12/2012	13/12/2012	13/12/2012	13/12/2012	14/12/2012	14/12/2012	14/12/2012	
103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	110	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	210	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	1.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	2.7	<1	<1	<1	<1	<1	-
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	1.4	<0.5	<0.5	<0.5	0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	2.5	0.5	<0.5	<0.5	1.1	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	1.1	<0.5	<0.5	<0.5	1	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	2.6	0.5	<0.5	<0.5	1	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	18	1	<1	<1	4.1	<1	-

Chem_Group	ChemName	Units	LOR	BH123A_(1.0-1.1m)	BH123A_(2.0-2.1m)	BH123A_(3.0-3.1m)	BH123A_(4.0-4.1m)	BH124_(0.5-0.6m)	BH124_(1.5-1.6m)	BH124_(2.5-2.6m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	210	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	18	1	<1	<1	4.1	<1	-
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	192	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)	BH125_(0.23-0.33m
BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)	BH125_(0.23-0.33m
14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	14/12/2012	11/12/2012
103791-93	103791-93	103791-93	103791-93	103791-93	103791-93	103786

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	110	620	630	<50	630	660	<50
	C15 - C28	mg/kg	50 / 100	1300	3800	2700	<100	3200	2600	940
	C29 - C36	mg/kg	50 / 100	220	350	220	160	320	310	530
	C10 - C36 (Sum of total)	mg/kg	120 / 100	1630	4770	3550	160	4150	3600	1500
PAH	Acenaphthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	2.1
	Acenaphthylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	18
	Anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	18
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	27
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	20
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	-	-	-	-	-	-	33
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.8
	Chrysene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	18
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.8
	Fluoranthene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	66
	Fluorene	mg/kg	0.1 / 0.5	-	0.9	1.4	<0.5	1.2	1.1	15
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	7.4
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	18
	Phenanthrene	mg/kg	0.1 / 0.5	-	1.3	<0.5	<0.5	1.9	1.6	87
	Pyrene	mg/kg	0.1 / 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	54
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	-	-	-	-	-	390

Chem_Group	ChemName	Units	LOR	BH124_(2.9-3.0m)_A	BH124_(2.9-3.0m)	BH124_(3.4-3.5m)	BH124_(3.8-3.9m)	BH124_(4.6-4.8m)_A	BH124_(4.6-4.8m)	BH125_(0.23-0.33m
TPH	TPH C10 - C14	mg/kg	20 / 50	110	620	630	<50	630	660	<50
	TPH C15+	mg/kg	50 / 100	1520	4150	2920	160	3520	2910	1470
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	-	-	-	-	-	-	390
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	1520	4150	2920	160	3520	2910	1080

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH125_(0.23-0.33m	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)	BH125A_(2.0-2.1M)
BH125_(0.23-0.33m	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)	BH125A_(2.0-2.1M)
11/12/2012	11/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012
103786	103786	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	740	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	470	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	1235	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	13	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	31	1	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	25	0.7	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	39	1.4	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	24	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	3.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	65	1.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	4.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	9.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	65	1.4	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	64	1.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	370	9.7	<1	<1	<1	<1	<1

Chem_Group	ChemName	Units	LOR	BH125_(0.23-0.33m	BH125_(1.0-1.1m)_A	BH125A_(0.5-0.6M)	BH125A_(0.5-0.6M)	BH125A_(1.4-1.5M)	BH125A_(2.0-2.1M)	BH125A_(2.0-2.1M)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	1210	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	370	9.7	<1	<1	<1	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	840	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH125A_(3.0-3.1M)	BH126_(0.31-0.41m	BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A
BH125A_(3.0-3.1M)	BH126_(0.31-0.41m	BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A
17/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	12/12/2012	10/12/2012
103794-103796	103787-103788	103787-103788	103787-103788	103787-103788	103787-103788	103784-103785

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	250	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	250	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	0.7	1.3	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.3	4.1	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	0.9	3.1	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	1.6	5.9	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.1	3.1	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.8	7.3	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.3	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.2	3.7	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.5	5.9	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	13	38	<1	<1

Chem_Group	ChemName	Units	LOR	BH125A_(3.0-3.1M)	BH126_(0.31-0.41m	BH126_(0.5-0.6m)_A	BH126_(0.5-0.6m)	BH126_(1.4-1.5m)	BH126_(2.4-2.5m)	BH127_(0.3-0.5M)_A
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	250	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	13	38	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	250	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M
BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M
10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	10/12/2012	17/12/2012
103784-103785	103786	103786	103786	103786	103786	103794-103796

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	250	350	190	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	550	860	730	260	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	800	1235	945	260	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	3.7	2.3	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	0.5	6.7	3.6	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	0.8	15	7.4	<0.5	<0.5	0.6
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	0.8	12	5.9	<0.5	<0.5	0.7
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	1.3	20	9.7	<1	<1	1.1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	4.9	2.6	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	0.7	11	5.1	<0.5	<0.5	0.6
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	1.9	31	16	<0.5	0.5	1.2
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	3.1	1.8	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	4.4	2.2	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	1	0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	1.2	21	13	<0.5	<0.5	0.7
	Pyrene	mg/kg	0.1 / 0.5	<0.5	1.9	28	14	<0.5	<0.5	1.2
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	9.1	160	84	<1	<1	6.1

Chem_Group	ChemName	Units	LOR	BH127_(0.3-0.5M)	BH127_(1.0-1.1m)	BH127_(1.5-1.6m)_A	BH127_(1.5-1.6m)	BH127_(2.6-2.7m)	BH127_(3.4-3.5m)	BH128_(0.28-0.38M
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	800	1210	920	260	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	9.1	160	84	<1	<1	6.1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	790.9	1050	836	260	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH128_(0.28-0.38M	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	
BH128_(0.28-0.38M	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)	
17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	17/12/2012	
103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	103794-103796	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	110	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	110	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	2.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	2.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	4.4	1.2	0.7	1.2	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	2.9	1.2	0.9	1.4	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	5	2.1	1.6	2.3	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	1.6	0.9	0.7	1.1	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	3	1.2	0.8	1.2	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	8.8	2	1.2	2	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	1.6	0.7	0.6	0.9	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	11	1.2	<0.5	0.8	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	7.4	2	1.3	2	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	53	13	7.8	13	<1	<1	<1

Chem_Group	ChemName	Units	LOR	BH128_(0.28-0.38M	BH128_(0.5-0.6M)	BH128_(1.5-1.6M)_A	BH128_(1.5-1.6M)	BH128_(2.0-2.1M)	BH128_(2.5-2.6M)	BH128_(2.9-3.0M)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	53	13	7.8	13	<1	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH129_(0.24-0.28M	BH129_(0.28-0.38M	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	
BH129_(0.24-0.28M	BH129_(0.28-0.38M	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)	
10/12/2012	10/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	11/12/2012	
103784-103785	103784-103785	103787-103788	103787-103788	103787-103788	103787-103788	103787-103788	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.9	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	0.6	<0.5	<0.5	3.4	0.8	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	0.6	<0.5	<0.5	2.9	0.7	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	1.1	<1	<1	4.7	1.1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	0.6	<0.5	<0.5	3.7	0.7	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	1	1	1	11	1.5	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	9.9	0.7	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	1	0.9	0.9	9.2	1.4	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	4.9	1.9	1.9	51	6.9	<1

Chem_Group	ChemName	Units	LOR	BH129_(0.24-0.28M	BH129_(0.28-0.38M	BH129_(1.0-1.1m)_A	BH129_(1.0-1.1m)	BH129_(2.0-2.1m)	BH129_(2.9-3.0m)	BH129_(3.9-4.0m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	4.9	1.9	1.9	51	6.9	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)
BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)
11/12/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012	25/07/2012	26/07/2012
103787-103788	92455-57	92455-57	92455-57	92455-57	89249-50	92458-59

Chem_Group	ChemName	Units	LOR						
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	470	690	<100	<100	<100	540
	C29 - C36	mg/kg	50 / 100	<100	200	420	<100	<100	<100	280
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	670	1135	<100	<100	<100	820
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	5	<0.5	<0.5	<0.5	2
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	3.5	0.7	<0.5	<0.5	<0.5	0.7
	Anthracene	mg/kg	0.1 / 0.5	<0.5	8.2	12	<0.5	<0.5	<0.5	5.1
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	16	20	<0.5	<0.5	0.6	11
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	10	19	<0.5	<0.5	0.6	7.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	17	28	<1	<1	1.1	13
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	5.1	11	<0.5	<0.5	<0.5	3.2
	Chrysene	mg/kg	0.1 / 0.5	<0.5	9.2	13	<0.5	<0.5	0.6	6.7
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	37	50	0.6	<0.5	1.2	18
	Fluorene	mg/kg	0.1 / 0.5	<0.5	1.9	5.1	<0.5	<0.5	<0.5	2.7
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	4.2	8.6	<0.5	<0.5	<0.5	3.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	0.6	3.8	<0.5	<0.5	<0.5	1
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	32	42	0.7	<0.5	0.7	16
	Pyrene	mg/kg	0.1 / 0.5	<0.5	31	43	<0.5	<0.5	1.2	18
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	180	260	1.3	<1	6	110

Chem_Group	ChemName	Units	LOR	BH129_(5.0-5.1m)	CBH10_(0.5-0.6m)	CBH10_(1.0-1.1m)	CBH10_(1.5-1.6m)	CBH10_(2.0-2.1m)	CBH11_(0.5-0.6m)	CBH11_(1.0-1.1m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	670	1110	<100	<100	<100	820
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	180	260	1.3	<1	6	110
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	490	850	<100	<100	<100	710

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)	CBH5A_(2.0-2.1m)	
CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)	CBH5A_(2.0-2.1m)	
26/07/2012	26/07/2012	25/07/2012	25/07/2012	25/07/2012	27/07/2012	27/07/2012	
92458-59	92458-59	89249-50	89249-50	89249-50	92458-59	92458-59	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	1.8	<0.5	<0.5	<0.5	1.1	<0.5	0.8
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	1.1	<0.5	<0.5	<0.5	0.9	<0.5	0.9
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	2	<1	<1	<1	1.4	<1	1.4
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	0.5	<0.5	<0.5	<0.5	0.6	<0.5	0.5
	Chrysene	mg/kg	0.1 / 0.5	1.3	<0.5	<0.5	<0.5	0.8	<0.5	0.7
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	3.5	<0.5	<0.5	<0.5	1.8	<0.5	1.6
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	3.2	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	3.7	<0.5	<0.5	<0.5	1.7	<0.5	1.7
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	19	<1	<1	<1	9.2	<1	7.6

Chem_Group	ChemName	Units	LOR	CBH11_(2.0-2.1m)	CBH11_(3.0-3.1m)	CBH5_(0.5-0.6m)	CBH5_(1.0-1.1m)	CBH5_(2.0-2.1m)	CBH5A_(1.0-1.1m)	CBH5A_(2.0-2.1m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	19	<1	<1	<1	9.2	<1	7.6
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	
CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)	
27/07/2012	27/07/2012	25/07/2012	25/07/2012	25/07/2012	25/07/2012	24/07/2012	
92458-59	92458-59	89249-50	89249-50	89249-50	89249-50	89247-48	

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	1.4	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	2.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluorene	mg/kg	0.1 / 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	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	2	<0.5	<0.5	<0.5	<0.5	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	9.4	<1	<1	<1	<1	<1

Chem_Group	ChemName	Units	LOR	CBH5A_(3.0-3.1m)	CBH5A_(3.5-3.6m)	CBH6_(0.5-0.6m)	CBH6_(1.5-1.6m)	CBH6_(2.0-2.1m)	CBH6_(2.5-2.6m)	CBH7_(0.5-0.6m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	9.4	<1	<1	<1	<1	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)
CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)
24/07/2012	24/07/2012	27/07/2012	27/07/2012	27/07/2012	27/07/2012	24/07/2012
89247-48	89247-48	92458-59	92458-59	92458-59	89247-48	89247-48

Chem_Group	ChemName	Units	LOR							
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	<100	<100	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	2.8	<0.5	<0.5	0.5	<0.5	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	2.8	<0.5	<0.5	<0.5	<0.5	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	4.3	<1	<1	<1	<1	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	2.6	<0.5	<0.5	<0.5	<0.5	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	7.4	<0.5	0.7	0.9	0.7	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	6.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	6	<0.5	0.6	0.9	0.7	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	39	<1	1.3	2.3	1.4	<1

Chem_Group	ChemName	Units	LOR	CBH7_(1.0-1.1m)	CBH7_(1.5-1.6m)	CBH7A_(1.0-1.1m)_	CBH7A_(2.0-2.1m)	CBH7A_(2.9-3.0m)	CBH8_(0.15-0.6m)	CBH8_(1.5-1.6m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	<100	<100	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	39	<1	1.3	2.3	1.4	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	<100	<100	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Table 13
Soil Analytical Results - Comparison Against TPH
Remediation Acceptance Criteria

Haymarket Precinct, Sydney NSW

CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
24/07/2012	24/07/2012	26/07/2012	26/07/2012	26/07/2012	26/07/2012
89247-48	89247-48	92455-57	92455-57	92455-57	92455-57

Chem_Group	ChemName	Units	LOR						
TPH	C6 - C9	mg/kg	10 / 20	<10	<10	<10	<10	<10	<10
	C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50
	C15 - C28	mg/kg	50 / 100	<100	<100	<100	210	<100	<100
	C29 - C36	mg/kg	50 / 100	<100	<100	<100	580	<100	<100
	C10 - C36 (Sum of total)	mg/kg	120 / 100	<100	<100	<100	790	<100	<100
PAH	Acenaphthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
	Acenaphthylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.8	<0.5	<0.5
	Benzo(a)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	5.8	1.1	<0.5
	Benzo(a)pyrene	mg/kg	0.05 / 0.1 / 0.5	<0.5	<0.5	<0.5	6	1.8	<0.5
	Benzo(b)&(k)fluoranthene	mg/kg	0.1 / 1	<1	<1	<1	9.1	2.8	<1
	Benzo(b)fluoranthene	mg/kg	0.1	-	-	-	-	-	-
	Benzo(k)fluoranthene	mg/kg	0.1	-	-	-	-	-	-
	Benzo(g,h,i)perylene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	3.7	1.5	<0.5
	Chrysene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	4	1.1	<0.5
	Dibenz(a,h)anthracene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	Fluoranthene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	12	1.6	<0.5
	Fluorene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	2.7	1	<0.5
	Naphthalene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5
	Phenanthrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	8.9	0.6	<0.5
	Pyrene	mg/kg	0.1 / 0.5	<0.5	<0.5	<0.5	11	1.8	<0.5
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	68	13	<1

Chem_Group	ChemName	Units	LOR	CBH8_(2.0-2.1m)	CBH8_(2.5-2.6m)	CBH9_(0.5-0.6m)	CBH9_(1.0-1.1m)	CBH9_(1.5-1.6m)	CBH9_(2.5-2.6m)
TPH	TPH C10 - C14	mg/kg	20 / 50	<50	<50	<50	<50	<50	<50
	TPH C15+	mg/kg	50 / 100	<100	<100	<100	790	<100	<100
	Total PAHs	mg/kg	0.8 / 1.0 / 1.75	<1	<1	<1	68	13	<1
	TPH C15+ (Adjusted - Refer Note 1)	mg/kg	-	<100	<100	<100	722	<100	<100

Notes
1. TPH C15+ (Adjusted) = Total TPH C15 - Total PAH
2. RAC apply to Building Footprints and Open Space

Appendix E
Plan of Remediation for Each Development Plot & Public Realm

E1 DEVELOPMENT PLOTS

Lend Lease Development propose to develop the Haymarket Precinct through separate development applications for six (6) Development Plots, and associated portions of the Public Realm. These Development Plots are named according to their plan position within the Haymarket Precinct, as shown on Figure E1. The six Development Plots are:

North Plot	South-West Plot
North-East Plot	North-West Plot
South-East Plot	Western Plot (Darling Drive)

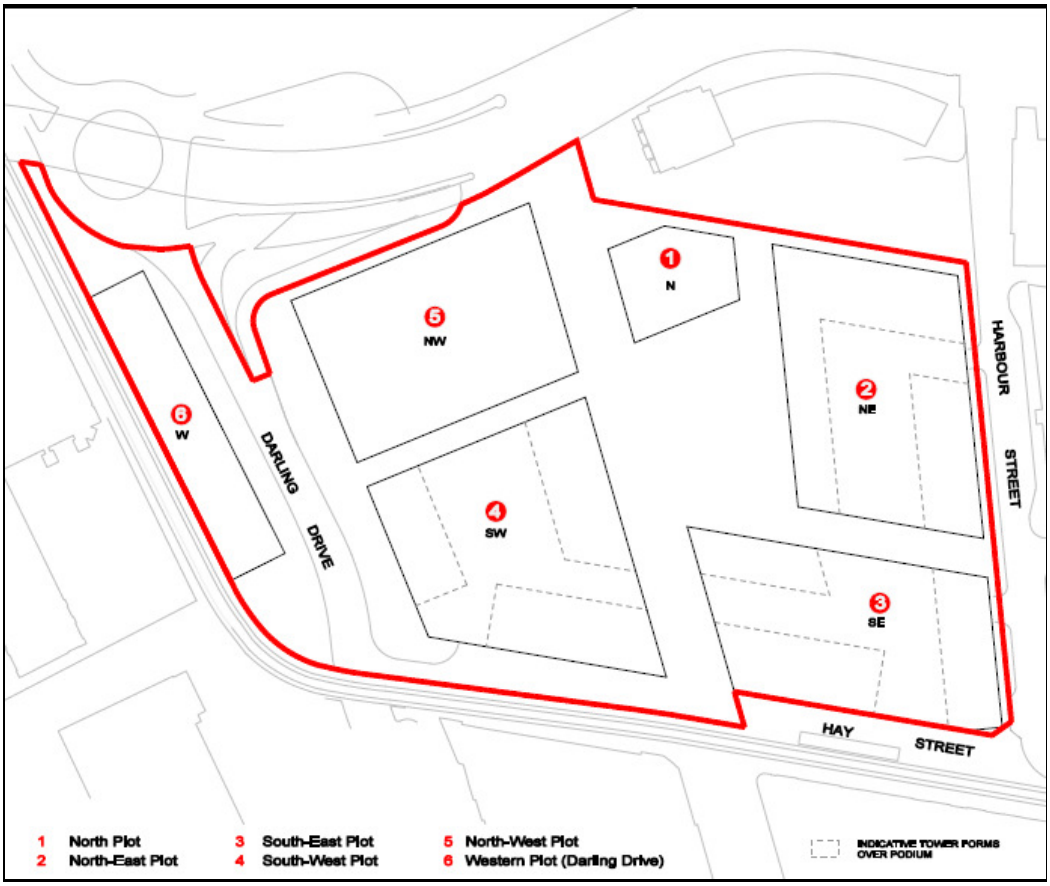

Figure E1. Proposed Development Plots in Haymarket Precinct

A Plan of Remediation is also presented for the Public Realm, being the balance of the Haymarket Precinct not covered by the identified Development Plots.

In the context of this RAP and with reference to Figure 2:

- West Plot refers to Stages 3A and 3B;
- North-West Plot refers to Stage 4A;
- South-West Plot refers to Stages 5A and 5B;
- North Plot refers to Stage 6;
- North-East Plot refers to Stage 8
- South-East Plot refers to Stage 7; and

Stages numbered 4B, 4C, 5C, 5D, 5E, 5F, 5G and 9 on Figure 2 are within the Public Realm, and considered separately in Section E9 in accordance with the provisions for Open Space areas within the RAP.

E2 CONTEXT FOR EACH PLAN OF REMEDIATION

The Plan of Remediation for each Development Plot forms part of this Site Specific Remedial Action Plan (RAP), and consequently has been prepared in accordance with all relevant sections of:

- AS 2601-2001: The demolition of structures.
- NSW DECC 2009, 'Waste Classification Guidelines'
- Work Health and Safety Act 2011
- Work Health and Safety Regulations 2011
- Protection of the Environment Operations Act 1997 and associated Regulations;
- Contaminated Land Management Act 1997 and associated Regulations;
- DUAP/EPA (1998) Managing Land Contamination: State Environmental Planning Policy No 55 Remediation of Land;
- State Environmental Planning Policy No 55—Remediation of Land.

Relevant guidelines made or approved by the NSW EPA under Section 105 of the Contaminated Land Management Act 1997 including:

- DEC (2006); Guidelines for the NSW Site Auditor Scheme, 2nd edition
- DEC (1997); Guidelines for Consultants Reporting on Contaminated Sites
- DEC (2007); Guidelines for the Assessment and Management of Groundwater Contamination
- DECC (2009); Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997
- EPA (1995) Contaminated Sites – Sampling Design Guidelines
- Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites, published by Australian and New Zealand Environment and Conservation Council (ANZECC) and the National Health and Medical Research Council (NHMRC) (January 1992)
- Australian and New Zealand Guidelines for Fresh and Marine Water Quality, published by ANZECC and Agriculture and Resource Management Council of Australia and New Zealand, Paper No 4 (October 2000)
- NEPC (1999) National Environment Protection (Assessment of Site Contamination) Measure (NEPM) (No. 1) as registered 2013, and associated Schedules.

E3 PLAN OF REMEDIATION FOR NORTH PLOT

E3.1 Outline of Development

Lend Lease Development describes the development of the North Plot to include:

- Site preparation works including demolition of existing site improvements;
- Construction and use of one mixed use building comprising:
    - Ground level active uses (retail etc) and car parking;
    - Community uses (such as a child care centre above ground level and a library);
    - Residential/commercial uses; and
    - Ancillary car parking (above ground location); and
- Extension, realignment and augmentation of physical infrastructure / utilities as required.

Services to the upper floors of the building, in particular lift shafts and utility connections, may require localised excavation. The building footprint covers approximately 1,200m^2.

E3.2 Contamination Identified

With reference to Figures 4 and 5 in the Overarching RAP (Coffey Environments, March 2013b), intrusive investigations occurred at five locations in the footprint of the North Plot and an additional four locations were investigated in the surrounding Public Realm. Contaminants exceeding Soil Investigation Levels (SILs, listed in Table 6.3 in the RAP) were Total Petroleum Hydrocarbons (TPH), Total Polycyclic Aromatic Hydrocarbons (PAHs) and benzo(a)pyrene. A low concentration of 4-nitrophenol was reported at BH128 on the southwestern corner of the North Plot.

As the building footprint occupies the entire area of the North Plot, consideration of ecological values is not applicable.

One groundwater monitoring (MW9) well is in close proximity to the North Plot and is immediately down-gradient. Analytical results for groundwater samples collected in August 2012 and January 2013 indicated very low concentrations of arsenic and PAH compounds which did not exceed groundwater investigation levels (GILs). Other analytes were below the laboratory's limit of reporting (LOR).

Acid sulfate soil associated with natural alluvium may be encountered for excavation of deep foundations or services.

E3.3 Remediation Action

Concentrations of Benzo(a)pyrene TEQ and TPH C_{15+} were reported above the Remediation Acceptance Criteria (RAC) developed in the Human Health and Environmental Risk Assessment (EnRiskS (15 November 2013), summarised in Table 10.2 in the RAP). Consequently, an unacceptable human health risk was identified and remediation within the North Plot is warranted.

The extent of remediation required in the North Plot is designated as Remediation Area 5 in Table 10.3 of the RAP, with Coffey's estimate of the impacted volume being in the range of 400m^3 to 800m^3. The preferred remediation option is hazard removal with disposal to an appropriately licensed landfill, because the expense of establishing a treatment plant on the plot for a relatively small volume would be prohibitive. The sequence of remediation works is described in Section 10.8 of the RAP.

Section 12 of the RAP describes data gaps, uncertainty and contingency planning with regard to contamination across the Haymarket Precinct. Disturbance of the ground as part of planned construction has the potential to uncover contamination presenting a potentially higher environmental risk than that indicated by the available information; or may uncover unexpected contamination.

For the North Plot, Table 12.2 in the RAP lists hydrocarbon compounds in the subsurface at locations NBH29 (the northeast corner of North Plot) and at BH128 (the southwest corner of North Plot) as identified contamination which may be associated with unacceptable levels of similar contamination within the North Plot.

Groundwater quality does not appear to pose an unacceptable risk for discharge to Cockle Bay if localised construction dewatering is required. The quality and quantity of any extracted groundwater would need to

be verified as suitable before release, and any relevant regulations or consent conditions would need to be satisfied.

Based on the history of the site, unexpected finds of contamination within the Haymarket Precinct may include asbestos impact, demolition waste, ash or slag layers, pipes or containers holding hazardous materials, hydrocarbon compounds (fuels or oils) and other chemical substances and wastes with high organic content (such as timber, vegetation, animal wastes etc). Coffey notes that construction of the existing Sydney Entertainment Centre (SEC), which partially overlaps North Plot, is reasonably expected to have resulted in removal of waste materials which may present unacceptable foundation conditions.

If localised contamination presents a higher than expected environmental risk, or if unexpected contamination is discovered, then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be used.

If deep foundation excavation is required for construction, then an appropriate Acid Sulfate Soil Management Plan will be prepared and implemented by the contractor.

E3.4 Remediation in the Construction Schedule

No specific remediation is warranted for the North Plot. However, if unanticipated contamination conditions emerge then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be implemented, and construction activity within the localised area of that incidence may be disrupted.

Management of possible asbestos impact in fill material, which is not associated with other unexpected contamination, will follow the process described in Section 12.4.3 of the RAP.

E3.5 Monitoring of Remediation Works and Validation

In Remediation Area 5, validation sampling and analysis will be used to demonstrate that unacceptable risk from concentrations of benzo(a)pyrene TEQ has been reduced. Validation procedures are described in Section 11.2 of the RAP.

Dust suppression will be employed in the remediation area to minimise the release of contaminants at the excavation point and on transfer of the impacted material to the trucks for disposal. Other environmental controls will be implemented during the remediation works as described in Section 13 of the RAP. Trucks will have covered loads to prevent release of dust along public roads between the Haymarket and the landfill.

The excavated areas will require restoration to construction design levels by use of fill material from other areas of the site (except from other Remediation Areas, or any other area identified during construction as warranting remediation), or by use of imported fill which will satisfy the definition of virgin excavated natural material (VENM) or met the requirements of the Excavated Natural Material Exemption (2012).

In addition to the warranted remediation and validation activity, if unanticipated contamination conditions emerge then appropriate monitoring of conditions and validation of any remediation work required would occur. The appointed Site Auditor would be informed of such incidences and Auditor review of reports, action plans and monitoring plans would be undertaken.

E3.6 Remediation Result

Coffey considers that if remediation and validation is undertaken in accordance with relevant parts of this RAP, then the North Plot can be made suitable for the proposed development in that plot.

Coffey confirms that contamination assessment results reported contaminant concentrations, other than that in Remediation Area 5, generally below SILs and otherwise below RAC in and around the North Plot. On that basis, Coffey concludes that the North Plot can be made suitable for the proposed development and future uses through successful implementation of this RAP in relation to the North Plot.

E4 PLAN OF REMEDIATION FOR NORTH-EAST PLOT

E4.1 Outline of Development

Lend Lease Development describes the development of the North-East Plot to include:

- Site preparation works including demolition of site improvements;
- Staged construction of the podium element, including:
  - Retail and potential IQ hub floor space and residential lobbies on Ground Level;
  - Above ground parking; and
  - Residential apartments;
- Staged construction and use of residential buildings above the podium; and
- Extension, realignment and augmentation of physical infrastructure / utilities as required.

Services to the upper floors of the building, in particular lift shafts and utility connections, may require localised excavation. The building footprint covers approximately 5,200m^2.

E4.2 Contamination Identified

With reference to Figures 4 and 5 in the Overarching RAP (Coffey Environments, March 2013b), intrusive investigations occurred at five locations in the footprint of the North-East Plot and an additional three locations were investigated in the Public Realm to the north. Contaminants exceeding Soil Investigation Levels (SILs, listed in Table 6.3 in the RAP) were TPH, Total PAHs and Benzo(a)pyrene.

Because the building footprint occupies the entire area of the North-East Plot, consideration of ecological values is not applicable.

One groundwater monitoring (MW12) well is in close proximity to the North-East Plot and is immediately down-gradient. Analytical results for groundwater samples collected in July 2011 indicated low concentrations of nickel and ethylbenzene, toluene and xylene which did not exceed GILs and concentrations of copper and zinc which were above GILs.

Acid sulfate soil associated with natural alluvium may be encountered for excavation of deep foundations.

E4.3 Remediation Action

Contaminants with reported concentrations above SILs did not have concentrations above RAC developed in the Human Health and Environmental Risk Assessment (EnRiskS (15 November 2013), summarised in Table 10.2 in the RAP). Consequently, no unacceptable human health risk was identified and remediation within the North-East Plot is not warranted.

Section 12 of the RAP describes data gaps, uncertainty and contingency planning with regard to contamination across the Haymarket Precinct. Disturbance of the ground as part of planned construction has the potential to uncover contamination presenting a potentially higher environmental risk than that indicated by the available information; or may uncover unexpected contamination.

For the North-East Plot, Table 12.2 in the RAP lists TPH and PAHs in the subsurface at locations NBH29, BH10 and CBH11 (the northwest corner of North-East Plot) as identified contamination which may be associated with unacceptable levels of similar contamination within North-East Plot. Delineation of this contamination to the south was constrained by the presence of the SEC.

Groundwater quality may pose an unacceptable risk due to reported concentrations of copper and zinc for discharge to Cockle Bay if localised construction dewatering is required. The quality and quantity of any extracted groundwater would need to be verified as suitable before release, and any relevant regulations or consent conditions would need to be satisfied.

Based on the history of the site, unexpected finds of contamination within the Haymarket Precinct may include asbestos impact, demolition waste, ash or slag layers, pipes or containers holding hazardous materials, hydrocarbon compounds (fuels or oils) and other chemical substances and wastes with high organic content (such as timber, vegetation, animal wastes etc). Coffey notes that construction of the SEC, which overlaps the North-East Plot, is reasonably expected to have resulted in removal of waste materials which may present unacceptable foundation conditions.

If localised contamination presents a higher than expected environmental risk, or if unexpected contamination is discovered, then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be used.

If deep foundation excavation is required for construction, then an appropriate Acid Sulfate Soil Management Plan will be prepared and implemented by the contractor.

E4.4 Remediation in the Construction Schedule

No specific remediation is warranted for the North-East Plot. However, if unanticipated contamination conditions emerge then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be implemented, and construction activity within the localised area of that incidence may be disrupted.

Management of possible asbestos impact in fill material, which is not associated with other unexpected contamination, will follow the process described in Section 12.4.3 of the RAP.

E4.5 Monitoring of Remediation Works and Validation

No specific remediation is warranted for the North-East Plot. However, if unanticipated contamination conditions emerge then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be implemented and appropriate monitoring of conditions and validation of any remediation work required would occur. The appointed Site Auditor would be informed of such incidences and Auditor review of reports, action plans and monitoring plans would be undertaken.

E4.6 Remediation Result

Coffey confirms that the contamination assessment results reported contaminant concentrations generally below SILs and otherwise below RAC in and around the North-East Plot and, on that basis, Coffey concludes that the North-East Plot can be made suitable for the proposed development and future uses.

If localised contamination presents a higher than expected environmental risk, or if unexpected contamination is discovered, then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be implemented to reduce such risk to an acceptable level.

E5 PLAN OF REMEDIATION FOR SOUTH-EAST PLOT

E5.1 Outline of Development

Lend Lease Development describes the development of the South-East Plot to include:

- Site preparation works including demolition of site improvements;
- Staged construction of the podium element, including:
  - Retail and potential IQ hub floor space and residential lobbies on Ground Level;
  - Above ground parking; and
  - Residential apartments;
- Staged construction and use of residential buildings above the podium; and
- Extension, realignment and augmentation of physical infrastructure / utilities as required.

Services to the upper floors of the building, in particular lift shafts and utility connections, may require localised excavation. The building footprint covers approximately 4,500m^2.

E5.2 Contamination Identified

With reference to Figures 4 and 5 in the Overarching RAP (Coffey Environments, March 2013b), intrusive investigations occurred at six locations in the footprint of the South-East Plot and an additional five locations were investigated in the Public Realm to the northwest. Contaminants exceeding the Soil Investigation Levels (SILs, listed in Table 6.3 in the RAP) were TPH, Total PAHs and benzo(a)pyrene. Presence of asbestos, as bonded ACM at BH119 and asbestos fines at BH13, was also identified.

Because the building footprint occupies the entire area of South-East Plot, consideration of ecological values is not applicable.

One groundwater monitoring well (MW13) is within South-East Plot. Analytical results for groundwater samples collected in July 2011 indicated a low concentrations of nickel which did not exceed the GIL and concentrations of arsenic, copper and zinc which were slightly above GILs.

Acid sulfate soil associated with natural alluvium may be encountered for excavation of deep foundations.

E5.3 Remediation Action

Bonded ACM and asbestos fines were found and concentrations of benzo(a)pyrene TEQ were reported above the RAC developed in the Human Health and Environmental Risk Assessment (EnRiskS (15 November 2013), summarised in Table 10.2 in the RAP). Consequently, an unacceptable human health risk was identified and remediation within the South-East Plot is warranted.

The extent of remediation required in the South-East Plot is designated as Remediation Areas 3 and 4 in Table 10.3 of the RAP, with Coffey's estimate of the impacted volume being in the range of 280m^3 to 520m^3 in Area 3 and 90m^3 to 160m^3 in Area 4. The preferred remediation option is hazard removal with disposal to an appropriately licensed landfill, which will require supervision by an appropriately licensed asbestos removal contractor and a NSW WorkCover permit for asbestos removal activity for Area 3. The sequence of remediation works is described in Section 10.8 of the RAP.

Section 12 of the RAP describes data gaps, uncertainty and contingency planning with regard to contamination across the Haymarket Precinct. Disturbance of the ground as part of planned construction has the potential to uncover contamination presenting a potentially higher environmental risk than that indicated by the available information; or may uncover unexpected contamination.

For the South-East Plot, Table 12.2 in the RAP lists hydrocarbon compounds in the subsurface at locations BH11 (the southwest corner of South-East Plot) as identified contamination which may be associated with unacceptable levels of similar contamination within South-East Plot.

Groundwater quality may pose an unacceptable risk due to reported concentrations of arsenic, copper and zinc for discharge to Cockle Bay if localised construction dewatering is required. The quality and quantity of any extracted groundwater would need to be verified as suitable before release, and any relevant regulations or consent conditions would need to be satisfied.

Based on the history of the site, unexpected finds of contamination within the Haymarket Precinct may include asbestos impact, demolition waste, ash or slag layers, pipes or containers holding hazardous

materials, hydrocarbon compounds (fuels or oils) and other chemical substances and wastes with high organic content (such as timber, vegetation, animal wastes etc). Coffey notes that construction of the SEC, which overlaps the South-East Plot, is reasonably expected to have resulted in removal of waste materials which may present unacceptable foundation conditions.

If localised contamination presents a higher than expected environmental risk, or if unexpected contamination is discovered, then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be used.

If deep foundation excavation is required for construction, then an appropriate Acid Sulfate Soil Management Plan will be prepared and implemented by the contractor.

E5.4 Remediation in the Construction Schedule

As removal of asbestos materials and impacted fill must be under the supervision of an appropriately licensed contractor, and such works must be undertaken in a work zone which excludes any other remediation or construction activity, this remediation work would be undertaken after the demolition of the existing improvements and before the planned construction activities to reduce the potential disruption to the schedule and to reduce the potential for the spread of asbestos impacted material.

Management of possible asbestos impact in fill material, which is not associated with other unexpected contamination, will follow the process described in Section 12.4.3 of the RAP.

E5.5 Monitoring of Remediation Works and Validation

In Remediation Areas 3 and 4, validation sampling and analysis will be used to demonstrate that unacceptable risk from presence of forms of asbestos (Area 3) and concentrations of benzo(a)pyrene TEQ (Area 4) has been reduced. Validation procedures are described in Section 11.2 of the RAP.

Because removal of asbestos impacted fill from Area 3 has the potential to release asbestos fibres into the air, asbestos removal works will be monitored in accordance with relevant NSW WorkCover industry codes of practice.

Dust suppression will be employed in both areas to minimise the release of contaminants at the excavation point and on transfer of the impacted material to the trucks for disposal. Other environmental controls will be implemented during the remediation works as described in Section 13 of the RAP. Trucks will have covered loads to prevent release of dust along public roads between the Haymarket and the landfill.

The excavated areas will require restoration to construction design levels by use of fill material from other areas of the site (except from other Remediation Areas, or any other area identified during construction as warranting remediation), or by use of imported fill which will satisfy the definition of virgin excavated natural material (VENM) or met the requirements of the Excavated Natural Material Exemption (2012).

In addition to the warranted remediation and validation activity, if unanticipated contamination conditions emerge then appropriate monitoring of conditions and validation of any remediation work required would occur. The appointed Site Auditor would be informed of such incidences and Auditor review of reports, action plans and monitoring plans would be undertaken.

E5.6 Remediation Result

Coffey considers that if remediation and validation is undertaken in accordance with relevant parts of this RAP, then the South-East Plot can be made suitable for the proposed development in that plot.

Coffey confirms that contamination assessment results reported contaminant concentrations, other than that in Remediation Areas 3 and 4, generally below SILs and otherwise below RAC in and around the South-East Plot. On that basis, Coffey concludes that the South-East Plot can be made suitable for the proposed development and future uses through successful implementation of this RAP in relation to the South-East Plot.

E6 PLAN OF REMEDIATION FOR SOUTH-WEST PLOT

E6.1 Outline of Development

Lend Lease Development describes the development of the South-West Plot to include:

- Staged demolition of existing site improvements, including the existing SEC, SEC car park, and part of the pedestrian footbridge connected to the SEC car park;
- Staged Construction of the podium element, including:
  - Retail and IQ hub floor space and residential lobbies on Ground Level;
  - Above ground parking; and
  - Residential apartments;
- Staged Construction and use of three residential buildings above the podium; and
- Extension, realignment and augmentation of physical infrastructure / utilities as required.

Services to the upper floors of the building, in particular lift shafts and utility connections, may require localised excavation. The building footprint covers approximately 5,100m^2.

Coffey notes that the footprint of the existing SEC overlaps the North, North-East and South-East Plots and is immediately east of the South-West Plot. Lend Lease Development intends to demolish the existing SEC to existing slab level 2 years after improvements on the South-West Plot are demolished (as part of the Development Application for construction on the South-West Plot). That is, the ground to the east of the South-West Plot would not be disturbed during demolition activity described under the Plan for Remediation for the South-West Plot other than the area of the existing SEC that overlaps the proposed Boulevard (part of the Public Realm).

E6.2 Contamination Identified

With reference to Figures 4 and 5 in the Overarching RAP (Coffey Environments, March 2013b), intrusive investigations occurred at four locations in the footprint of the South-West Plot and an additional seven locations were investigated in the Public Realm to the east (4 locations) and west to northwest (3 locations). Contaminants exceeding Soil Investigation Levels (SILs, listed in Table 6.3 in the RAP) were TPH, Total PAHs, benzo(a)pyrene and lead.

Because the building footprint occupies the entire area of South-West Plot, consideration of ecological values is not applicable.

Three groundwater monitoring wells are in proximity to South-West Plot, with two wells being cross-gradient (MW30 to the east and MW25 to the west, sampled and analysed in July 2011, August 2012 and January 2013) and the third well (MW120, sampled and analysed in January 2013) is down-gradient and within the North-West Plot. Analytical results for groundwater samples collected from these wells indicated:

- Cross-gradient wells MW25 and MW30 – low concentrations of some metals which were not reported consistently for the three monitoring events and very low concentrations of PAHs which were below GILs; and
- Down-gradient well MW120 – reported a concentration of cadmium below the GIL and concentrations of arsenic and copper marginally above the GILs. A very low concentration of TPH C_6-C_9 was also reported.

Acid sulfate soil associated with natural alluvium may be encountered for excavation of deep foundations.

E6.3 Remediation Action

Contaminants with reported concentrations above SILs did not have concentrations above RAC developed in the Human Health and Environmental Risk Assessment (EnRiskS (15 November 2013), summarised in Table 10.2 in the RAP). Coffey notes that the elevated concentration of lead was reported in a sample for which field observations noted the presence of metal fragments which were considered to be the origin of the lead impact rather than another source of impact in the fill material. Consequently, no unacceptable human health risk was identified and remediation within the South-West Plot was not warranted.

Section 12 of the RAP describes data gaps, uncertainty and contingency planning with regard to contamination across the Haymarket Precinct. Disturbance of the ground as part of planned construction

has the potential to uncover contamination presenting a potentially higher environmental risk than that indicated by the available information; or may uncover unexpected contamination.

For the South-West Plot, Table 12.2 in the RAP lists hydrocarbon compounds, PAHs and metals in the subsurface at location BH121A (middle of the eastern part of South-West Plot) as identified contamination which may be associated with unacceptable levels of similar contamination within South-West Plot.

Groundwater quality may pose an unacceptable risk due to reported low and inconsistent concentrations of certain metals, and a very low concentration of TPH C_6-C_9, for discharge to Cockle Bay if localised construction dewatering is required. The quality and quantity of any extracted groundwater would need to be verified as suitable before release, and any relevant regulations or consent conditions would need to be satisfied.

Based on the history of the site, unexpected finds of contamination within the Haymarket Precinct may include asbestos impact, demolition waste, ash or slag layers, pipes or containers holding hazardous materials, hydrocarbon compounds (fuels or oils) and other chemical substances and wastes with high organic content (such as timber, vegetation, animal wastes etc). Coffey notes that construction of the SEC Car Park, which overlaps South-West Plot, is reasonably expected to have resulted in removal of waste materials which may present unacceptable foundation conditions.

If localised contamination presents a higher than expected environmental risk, or if unexpected contamination is discovered, then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be used.

If deep foundation excavation is required for construction, then an appropriate Acid Sulfate Soil Management Plan will be prepared and implemented by the contractor.

E6.4 Remediation in the Construction Schedule

No specific remediation is warranted for the South-West Plot. However, if unanticipated contamination conditions emerge then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be implemented, and construction activity within the localised area of that incidence may be disrupted.

Management of possible asbestos impact in fill material, which is not associated with other unexpected contamination, will follow the process described in Section 12.4.3 of the RAP.

E6.5 Monitoring of Remediation Works and Validation

No specific remediation is warranted for the South-West Plot. However, if unanticipated contamination conditions emerge then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be implemented and appropriate monitoring of conditions and validation of any remediation work required would occur. The appointed Site Auditor would be informed of such incidences and Auditor review of reports, action plans and monitoring plans would be undertaken.

E6.6 Remediation Result

Coffey confirms that contamination assessment results reported contaminant concentrations generally below SILs and otherwise below RAC in and around the South-West Plot and, on that basis, Coffey concludes that the South-West Plot can be made suitable for the proposed development and future uses.

If localised contamination presents a higher than expected environmental risk, or if unexpected contamination is discovered, then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be implemented to reduce such risk to an acceptable level.

E7 PLAN OF REMEDIATION FOR NORTH-WEST PLOT

E7.1 Outline of Development

Lend Lease Development describes the development of the North-West Plot to include:

- Site preparation works including demolition of SEC Car Park, minor excavation;
- Construction and use of a mixed use commercial building comprising:
    - ground level active (retail/commercial/television studio) uses and loading dock;
    - public car park (above ground);
    - ancillary commercial office parking (above ground); and
    - commercial office space; and
- Extension and augmentation of physical infrastructure / utilities as required.

Services to the upper floors of the building, in particular lift shafts and utility connections, may require localised excavation. The building footprint covers approximately 5,200m^2.

E7.2 Contamination Identified

With reference to Figures 4 and 5 in the Overarching RAP (Coffey Environments, March 2013b), intrusive investigations occurred at seven locations in the footprint of the North-West Plot and an additional ten locations were investigated in the Public Realm to the east (3 locations), northwest (2 locations) and west (5 locations). Contaminants exceeding Soil Investigation Levels (SILs, listed in Table 6.3 in the RAP) were TPH, Total PAHs and benzo(a)pyrene. Contamination may extend to the north beyond the plot boundary.

Because the building footprint occupies the entire area of North-West Plot, consideration of ecological values is not applicable.

Three groundwater monitoring wells are in proximity to North-West Plot, with two wells being cross-gradient (MW1 to the west which was sampled and analysed in July 2011, and MW6 to the northwest, which was sampled and analysed in August 2012 and January 2013) and the third well (MW120, sampled and analysed in January 2013) is within the North-West Plot. Analytical results for groundwater samples collected from these wells indicated:

- Well MW1 to the west – reported concentrations of 7 metals (mercury not detected) of which concentrations of copper, lead and zinc were above GILs;
- Well MW6 to the northwest - reported low concentrations of cadmium and copper which were below GILs; and
- Well MW120 within the plot – reported a concentration of cadmium below the GIL and concentrations of arsenic and copper marginally above the GILs. A very low concentration of TPH C_6-C_9 was also reported.

Acid sulfate soils associated with the natural alluvium may be encountered during the excavation of deep foundations.

E7.3 Remediation Action

Concentrations of Benzo(a)pyrene TEQ, naphthalene and TPH C_{15+} were reported above RAC at location EB1 in the middle of the north of the North-West Plot. RAC were developed in the Human Health and Environmental Risk Assessment (EnRiskS (15 November 2013), summarised in Table 10.2 in the RAP). Consequently, an unacceptable human health risk due to the presence these organic compounds was identified and remediation within the North-West Plot is warranted.

The extent of remediation required in the North-West Plot is designated as Remediation Area 1 in Table 10.3 of the RAP, with Coffey's estimate of the impacted volume being in the range of 2,380m^3 to 4,420m^3. The preferred remediation option is hazard removal with disposal to an appropriately licensed landfill, because the expense of establishing a treatment plant on the plot for a relatively small volume would be prohibitive. The sequence of remediation works is described in Section 10.8 of the RAP.

Because contamination may extend to the north beyond the plot boundary, site specific controls would be provided to reduce potential for risk of unacceptable impact from residual off-site impact to the north. The

northern boundary of the North-West Plot appears to coincide with the Haymarket Precinct boundary which precludes extension of remediation works to the north.

Section 12 of the RAP describes the data gaps, uncertainty and contingency planning with regard to contamination across the Haymarket Precinct. Disturbance of the ground as part of the planned construction has the potential to uncover contamination presenting a potentially higher environmental risk than that indicated by the available information; or may uncover unexpected contamination.

For the North-West Plot, no localised contamination was identified in the subsurface to indicate potential for unacceptable levels of similar contamination within the plot. Table 12.2 in the RAP describes such localised contamination within the Haymarket Precinct.

Groundwater quality may pose an unacceptable risk due to reported concentrations of arsenic, copper, lead and zinc for discharge to Cockle Bay if localised dewatering for remediation or construction is required. Groundwater level was observed at 1.9mbgl which is slightly above the target remediation excavation depth of 2m. On this basis, Coffey considers it unlikely that dewatering of the remediation excavation will be required. The quality and quantity of any extracted groundwater would need to be verified as suitable before release, and any relevant regulations or consent conditions would need to be satisfied.

Based on the history of the site, unexpected finds of contamination within the Haymarket Precinct may include asbestos impact, demolition waste, ash or slag layers, pipes or containers holding hazardous materials, hydrocarbon compounds (fuels or oils) and other chemical substances and wastes with high organic content (such as timer, vegetation, animal wastes etc). Coffey notes that construction of the SEC Car Park, which overlaps North-West Plot, is reasonably expected to have resulted in removal of waste materials which may present unacceptable foundation conditions.

If localised contamination presents a higher than expected environmental risk, or if unexpected contamination is discovered, then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be used.

If deep foundation excavation is required for construction, then an appropriate Acid Sulfate Soil Management Plan will be prepared and implemented by the contractor.

E7.4 Remediation in the Construction Schedule

The nature of contamination requires impacted materials to be separated from other construction materials, but remediation works would be able to be integrated with other construction earthworks for an optimal construction schedule. Removal of up to 4,420m^3 of contaminated fill could take 2 weeks, allowing for constraints on truck movements due to peak hour traffic.

Management of possible asbestos impact in fill material, which is not associated with other unexpected contamination, will follow the process described in Section 12.4.3 of the RAP.

E7.5 Monitoring of Remediation Works and Validation

In Remediation Area 1, validation sampling and analysis will be used to demonstrate that unacceptable risk from presence of certain organic compounds has been reduced. Validation procedures are described in Section 11.2 of the RAP. Environmental controls would be used during the remediation works as described in Section 13 of the RAP. Trucks will have covered loads to prevent release of dust along public roads between the Haymarket and the landfill.

The excavated area will require restoration to construction design levels by use of fill material from other areas of the site (except from Remediation Area 2, or any other area identified during construction as warranting remediation), or by use of imported fill which will satisfy the definition of virgin excavated natural material (VENM) or met the requirements of the Excavated Natural Material Exemption (2012).

In addition to warranted remediation and validation activity, if unanticipated contamination conditions emerge then appropriate monitoring of conditions and validation of any remediation work required would occur. The appointed Site Auditor would be informed of such incidences and Auditor review of reports, action plans and monitoring plans would be undertaken.

E7.6 Remediation Result

Coffey considers that if remediation and validation is undertaken in accordance with relevant parts of this RAP, then the North-West Plot will be made suitable for the proposed development of that plot.

Coffey confirms that contamination assessment results reported contaminant concentrations, other than that in Area 1, generally below SILs and otherwise below RAC in and around the North-West Plot. On that basis, Coffey concludes that the North-West Plot can be made suitable for the proposed development and future uses through successful implementation of this RAP in relation to the North-West Plot.

E8 PLAN OF REMEDIATION FOR WESTERN PLOT (DARLING DRIVE)

E8.1 Outline of Development

Lend Lease Development describes the development of the Western Plot to include:

- Site preparation works including demolition of existing site improvements;
- Staged construction and use of two residential buildings within the Western Plot, to be used for student accommodation purposes;
- Extension, realignment and augmentation of physical infrastructure / utilities as required.

Services to the upper floors of the building, in particular lift shafts and utility connections, may require localised excavation. The building footprint covers approximately 1,800m^2 of the plot area of 2,160m^2.

E8.2 Contamination Identified

With reference to Figures 4 and 5 in the Overarching RAP (Coffey Environments, March 2013b), intrusive investigations occurred at four locations in the footprint of the Western Plot and an additional eight locations were investigated in the Public Realm to the east (6 locations) and south to southeast (2 locations). Contaminants exceeding Soil Investigation Levels (SILs, listed in Table 6.3 in the RAP) were TPH, Total PAHs and benzo(a)pyrene. 2-naphthylamine, a semi-volatile organic compound, and Lindane, an organochlorine pesticide, were detected at depth at location BH124 at the northern end of Western Plot.

The footprint of the two buildings occupies approximately 85% of the area of Western Plot, and consequently, ecological values need to be considered. Open space is located between the two buildings, represented by investigation locations BH 123 and BH123A, and at the southern end of the plot, represented by investigation locations BH 122 and BH122A. The latter location is just outside the plot boundary. With reference to the Ecological Investigation Levels (EILS) listed in Table 6.4 in the RAP, reported concentrations of benzo(a)pyrene were slightly above the EIL in a layer at 1m below ground surface in the middle of the plot and in a layer at 1.5m below ground surface at the southern end of the plot. Coffey notes that the ground surface at the investigation boreholes was a landscaped mound adjacent to Darling Drive situated above the existing road level by approximately 1m. Consequently, the benzo(a)pyrene impacted layer may be near the ground surface after proposed construction. Coffey also notes that deep rooted trees are present on the landscaped mound and do not appear to be stressed or have growth otherwise affected. Concentrations of PAHs in samples from adjacent groundwater monitoring wells (MW1 and MW25) were below laboratory reporting limit, which varied between 0.01µg/L and 1µg/L. Given only slight exceedance of the EIL for benzo(a)pyrene, Coffey considers that remediation due to potential for adverse ecological impacts is not warranted.

Three groundwater monitoring wells are in proximity to Western Plot, with one down-gradient well (MW1 to the north, sampled and analysed in July 2011), one cross-gradient well (MW25 to the east, sampled and analysed in July 2011, August 2012 and January 2013) and the third well (MW124) is within the plot at the northern end, but was observed to be dry after installation in January 2013. Analytical results for groundwater samples collected from these wells indicated:

- Cross-gradient wells MW25 – low concentrations of some metals which were not reported consistently for the three monitoring events and very low concentrations of PAHs which were below GILs; and
- Down-gradient well MW1 – reported concentrations of 7 metals (mercury not detected) of which concentrations of copper, lead and zinc were above GILs.

Acid sulfate soil associated with natural alluvium may be encountered for excavation of deep foundations.

E8.3 Remediation Action

Concentrations of TPH C10-C14 and TPH C15+ were reported above RAC developed in the Human Health and Environmental Risk Assessment (EnRiskS (15 November 2013), summarised in Table 10.2 in the RAP). However, consideration of occurrence of this contamination at a depth of approximately 3m and more below the surface, as discussed in Section 10.5.2 of the RAP, the health risk from vapour intrusion due to identified contamination was shown by EnRiskS to be acceptable. Consequently, no unacceptable human health risk was identified and remediation within the Western Plot was not warranted.

Section 12 of the RAP describes data gaps, uncertainty and contingency planning with regard to contamination across the Haymarket Precinct. Disturbance of the ground as part of planned construction has the potential to uncover contamination presenting a potentially higher environmental risk than that indicated by the available information; or may uncover unexpected contamination.

For the Western Plot, Table 12.2 in the RAP lists hydrocarbon compounds, PAHs and semi-volatile organic compounds (specifically, 2-naphthylamine and Lindane) in the subsurface at location BH124 (northern end of Western Plot) as identified contamination which may be associated with unacceptable levels of similar contamination within Western Plot.

Groundwater quality may pose an unacceptable risk due to reported low and inconsistent concentrations of certain metals, and a very low concentration of TPH C_6-C_9, for discharge to Cockle Bay if localised construction dewatering is required. The quality and quantity of any extracted groundwater would need to be verified as suitable before release, and any relevant regulations or consent conditions would need to be satisfied.

Based on the history of the site, unexpected finds of contamination within the Haymarket Precinct may include asbestos impact, demolition waste, ash or slag layers, pipes or containers holding hazardous materials, hydrocarbon compounds (fuels or oils) and other chemical substances and wastes with high organic content (such as timer, vegetation, animal wastes etc). Coffey notes that below-ground cooling water intake conduits associated with the former Ultimo Power Station passed to the north of the Western Plot. This infrastructure may have provided a preferential pathway for movement of contamination from the former power station..

If localised contamination presents a higher than expected environmental risk, or if unexpected contamination is discovered, then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be used.

If deep foundation excavation is required for construction, then an appropriate Acid Sulfate Soil Management Plan will be prepared and implemented by the contractor.

E8.4 Remediation in a Construction Schedule

No specific remediation is warranted for the Western Plot. However, if unanticipated contamination conditions emerge then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be implemented, and construction activity within the localised area of that incidence may be disrupted.

Management of possible asbestos impact in fill material, which is not associated with other unexpected contamination, will follow the process described in Section 12.4.3 of the RAP.

E8.5 Monitoring of Remediation Works and Validation

No specific remediation is warranted for the Western Plot. However, if unanticipated contamination conditions emerge then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be implemented and appropriate monitoring of conditions and validation of any remediation work required would occur. The appointed Site Auditor would be informed of such incidences and Auditor review of reports, action plans and monitoring plans would be undertaken.

E8.6 Remediation Result

Coffey confirms that contamination assessment results reported contaminant concentrations generally below SILs and otherwise below RAC in and around the Western Plot and, on that basis, Coffey concludes that the Western Plot can be made suitable for the proposed development and future uses.

If localised contamination presents a higher than expected environmental risk, or if unexpected contamination is discovered, then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be implemented to reduce such risk to an acceptable level.

E9 PLAN OF REMEDIATION FOR PUBLIC REALM

E9.1 Outline of Development

Lend Lease Development describes the development of the Public Realm to include:

- Tree removal and replanting;
- Realignment and upgrade of Darling Drive (part);
- Provision of 'The Boulevard' - a pedestrian boulevard linking Quay Street to Darling Harbour (part) and a new Square;
- provision of part of a new east-west pedestrian laneways,
- provision of Macarthur Place located at the termination of The Goods Line;
- Modification of the retained portion of the pedestrian footbridge and the provision of lift and stair access to 'The Goods Line';
- Provision of a new landscaped verges and WSUD; and
- Extension, realignment and augmentation of physical infrastructure / utilities as required.

Darling Drive is intended for vehicular traffic with other areas intended for pedestrian use with occasional service vehicle use.

E9.2 Contamination Identified

With reference to Figure 5 in the Overarching RAP (Coffey Environments, March 2013b), intrusive investigations occurred at twenty-two (22) locations in the Public Realm. Contaminants exceeding Soil Investigation Levels (SILs, listed in Table 6.3 in the RAP) were TPH, Total PAHs and benzo(a)pyrene.

The Public Realm will support landscaped areas as well as roads and paved pedestrian areas, consequently, consideration of ecological values is applicable.

Eight groundwater monitoring wells exist within the Haymarket Precinct. Groundwater quality with reference to concentrations of chemical stressors which are protective of aquatic species was impaired at a low level, most frequently by the presence of one or more heavy metals. Given that the water table is typically 2m below ground surface, the likelihood that construction in the Public Realm should interfere with groundwater is remote, except for the provision of sewerage or stormwater drainage, which is common to all plots and the Public Realm.

Acid sulfate soil associated with natural alluvium is unlikely to be encountered for development of the Public Realm.

E9.3 Remediation Action

Concentrations of benzo(a)pyrene TEQ were reported above RAC developed in the Human Health and Environmental Risk Assessment (EnRiskS (15 November 2013), summarised in Table 10.2 in the RAP). Consequently, an unacceptable human health risk was identified and remediation within the Public Realm is warranted around the middle of The Boulevard, indicated as Stage 5G in Figure 2.

The extent of remediation required in the Public Realm is designated as Remediation Area 2 in Table 10.3 of the RAP, with Coffey's estimate of the impacted volume being in the range of $35m^3$ to $65m^3$. The preferred remediation option is hazard removal with disposal to an appropriately licensed landfill, because the expense of establishing a treatment plant on the plot for a relatively small volume would be prohibitive. The sequence of remediation works is described in Section 10.8 of the RAP.

Section 12 of the RAP describes data gaps, uncertainty and contingency planning with regard to contamination across the Haymarket Precinct. Disturbance of the ground as part of planned construction has the potential to uncover contamination presenting a potentially higher environmental risk than that indicated by the available information; or may uncover unexpected contamination.

For the Public Realm, Table 12.2 in the RAP lists TPH, Total PAHs and benzo(a)pyrene in the subsurface at locations CBH10 and NBH29 (north of North-East Plot) as identified contamination which may be associated with unacceptable levels of similar contamination within that part of the Public Realm.

Groundwater quality may pose an unacceptable risk due to reported concentrations of certain heavy metals for discharge to Cockle Bay if localised construction dewatering is required. The quality and quantity of any extracted groundwater would need to be verified as suitable before release, and any relevant regulations or consent conditions would need to be satisfied.

Based on the history of the site, unexpected finds of contamination within the Haymarket Precinct may include asbestos impact, demolition waste, ash or slag layers, pipes or containers holding hazardous materials, hydrocarbon compounds (fuels or oils) and other chemical substances and wastes with high organic content (such as timber, vegetation, animal wastes etc).

If localised contamination presents a higher than expected environmental risk, or if unexpected contamination is discovered, then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be used.

If deep excavation for sewerage or stormwater drainage is required, then an appropriate Acid Sulfate Soil Management Plan will be prepared and implemented by the contractor.

E9.4 Remediation in a Construction Schedule

The nature of contamination requires impacted materials to be separated from other construction materials, but given the relatively small volume of fill material expected to be removed, remediation works should be able to be integrated with other construction earthworks for an optimal construction schedule.

If unanticipated contamination conditions emerge then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be implemented, and construction activity within the localised area of that incidence may be disrupted.

Management of possible asbestos impact in fill material, which is not associated with other unexpected contamination, will follow the process described in Section 12.4.4 of the RAP.

E9.5 Monitoring of Remediation Works and Validation

In Remediation Area 2, validation sampling and analysis will be used to demonstrate that unacceptable risk from presence of certain organic compounds has been reduced. Validation procedures are described in Section 11.2 of the RAP. Environmental controls would be used during the remediation works as described in Section 13 of the RAP. Trucks will have covered loads to prevent release of dust along public roads between the Haymarket and the landfill.

The excavated area will require restoration to construction design levels by use of fill material from other areas of the site (except from other Remediation Areas, or any other area identified during construction as warranting remediation), or by use of imported fill which will satisfy the definition of virgin excavated natural material (VENM) or met the requirements of the Excavated Natural Material Exemption (2012).

If unanticipated contamination conditions emerge then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be implemented and appropriate monitoring of conditions and validation of any remediation work required would occur. The appointed Site Auditor would be informed of such incidences and Auditor review of reports, action plans and monitoring plans would be undertaken.

E9.6 Remediation Result

Coffey considers that if remediation and validation is undertaken in accordance with relevant parts of this RAP, then the Public Realm will be made suitable for the proposed development of that area.

Coffey confirms that contamination assessment results reported contaminant concentrations, other than that in Area 2, generally below SILs and otherwise below RAC in and around the Public realm. On that basis, Coffey concludes that the Public Realm can be made suitable for the proposed development and future uses through successful implementation of this RAP.

If localised contamination presents a higher than expected environmental risk, or if unexpected contamination is discovered, then the Unexpected Finds Procedure, listed in Section 12.2.3 of the RAP will be implemented to reduce such risk to an acceptable level.