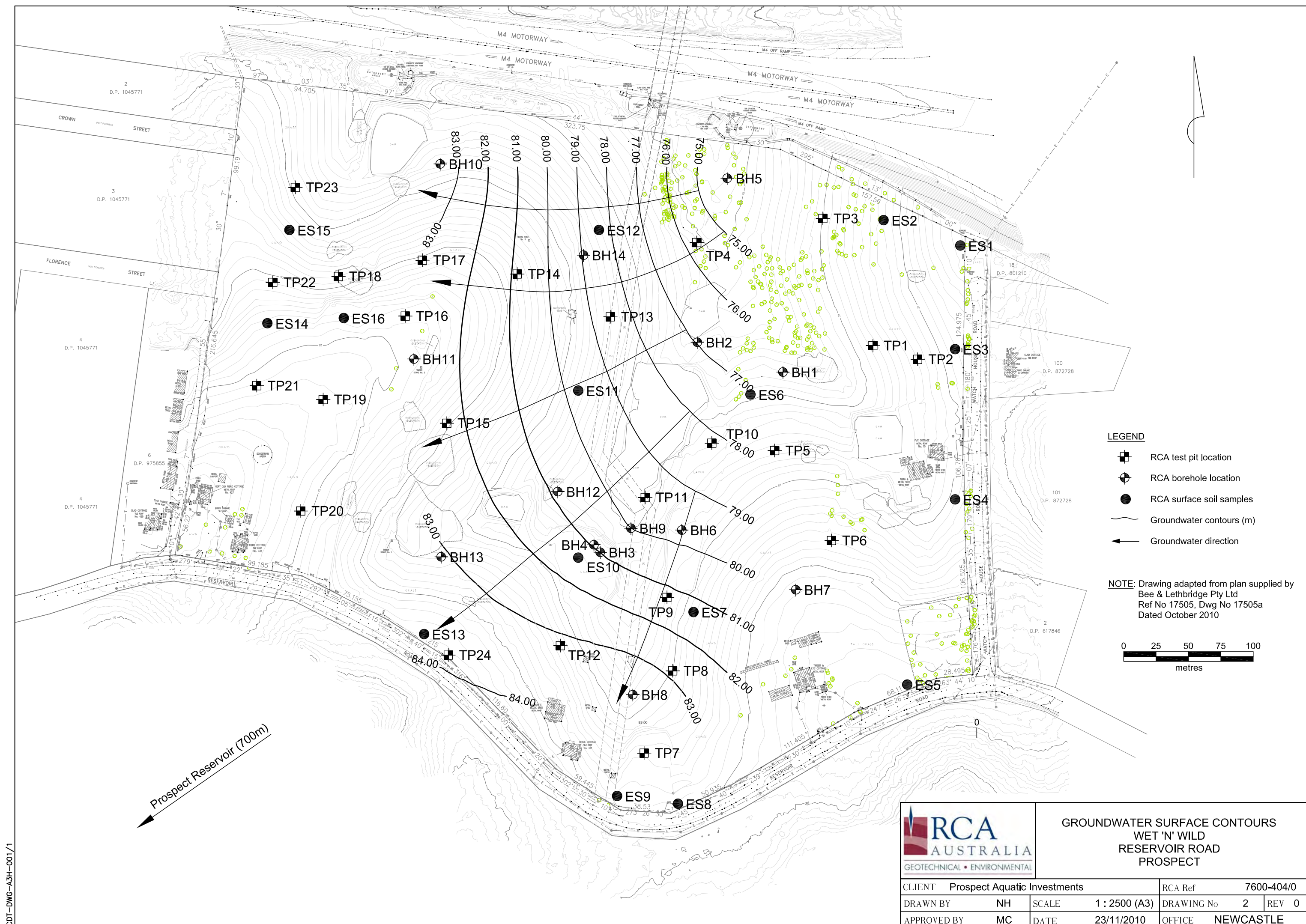




CDT-DWG-A3H-001/1



GROUNDWATER SURFACE CONTOURS
WET 'N' WILD
RESERVOIR ROAD
PROSPECT

CLIENT Prospect Aquatic Investments			RCA Ref 7600-404/0		
DRAWN BY	NH	SCALE	1 : 2500 (A3)	DRAWING No	2
APPROVED BY	MC	DATE	23/11/2010	OFFICE	NEWCASTLE
				REV	0

Appendix B

Test Pit Logs

DATE: 18/10/2010
SURFACE RL: 81.2 m AHD
COORDS: 306810.7 m E 6257310.8 m N MGA94 56
EXCAVATION METHOD:

Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	_PP =215kPa	0.70m	81.0	0.20		TOPSOIL, Clayey SILT, dark brown		M		TOPSOIL
		D-TP1a 0.80m						MC-PL	Vst	RESIDUAL
		1.00m	80.5	0.5		Silty CLAY, high plasticity, mottled red/brown				
		B								
		1.30m								
		1.80m	79.5	1.70		Silty CLAY, high plasticity (crumbly), mottled grey/brown, with siltstone bands	MC<PL	H		
D-TP1b 1.90m										
			79.0	2.00		TEST PIT TP1 TERMINATED AT 2.00 m				

LOGGED: NJH

CHECKED: JE

DATE: 23/11/2010

DATE: 18/10/2010
SURFACE RL: 83.4 m AHD
COORDS: 306845.2 m E 6257300.0 m N MGA94 56
EXCAVATION METHOD:

DATE: 18/10/2010
SURFACE RL: 80.0 m AHD
COORDS: 306771.9 m E 6257407.3 m N MGA94 56
EXCAVATION METHOD:

Test Pit Information					Field Material Information						
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS	
Not Encountered	_PP =170kPa		80.0			TOPSOIL, Clayey SILT, dark brown		M		TOPSOIL	
				0.30							
		_PP =320kPa	0.50m	79.5	0.5		Silty CLAY, high plasticity, mottled red/brown/grey		MC<PL	H	RESIDUAL
			D-TP3a								
		0.60m									
_PP =370kPa	1.00m	79.0	1.0								
	B										
	1.30m										
_PP >400kPa	1.50m	78.5	1.50		Silty Sandy CLAY, medium plasticity, with siltstone bands						
	D-TP3b										
	1.60m										
			78.0	2.0		TEST PIT TP3 TERMINATED AT 1.80 m					

LOGGED: NJH

CHECKED: JE

DATE: 23/11/2010

DATE: 18/10/2010
SURFACE RL: 75.7 m AHD
COORDS: 306674.6 m E 6257390.4 m N MGA94 56
EXCAVATION METHOD:

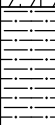
Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	.PP =490kPa	0.50m D-TP4a 0.60m	75.5	0.30		TOPSOIL, Clayey SILT, dark brown		M		TOPSOIL
						Silty CLAY, high plasticity, mottled red/brown		MC-PL	H	RESIDUAL
						Silty CLAY, high plasticity, mottled grey/red/brown, with siltstone bands				
	.PP =460kPa	0.60m	75.0							
	.PP =410kPa	1.50m D-TP4b 1.60m	74.5	1.00						
			74.0							
			2.00			TEST PIT TP4 TERMINATED AT 2.00 m				
			73.5							

LOGGED: NJH

CHECKED: JE

DATE: 23/11/2010

DATE: 18/10/2010
SURFACE RL: 82.8 m AHD
COORDS: 306734.8 m E 6257229.8 m N MGA94 56
EXCAVATION METHOD:

Test Pit Information					Field Material Information								
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS			
Not Encountered	.PP =380kPa	0.60m D-TP5a 0.70m	82.5	0.30		TOPSOIL, Clayey SILT, dark brown		M		TOPSOIL			
			.PP =340kPa	B	1.30m	81.5		1.5		Silty CLAY, high plasticity, mottled red/brown/grey, with siltstone bands	MC~PL	H	RESIDUAL
.PP >600kPa	D-TP5b 1.60m	81.0	1.80		SILTSTONE, grey	HW	EL - VL	BEDROCK					
			80.5			TEST PIT TP5 TERMINATED AT 2.00 m							
LOGGED: NJH						CHECKED: JE		DATE: 23/11/2010					

PROJECT No: 7600
 CLIENT: Prospect Aquatic Investments Pty Ltd
 PROJECT: Proposed Wet n Wild Theme Park
 LOCATION: Reservoir Rd, Prospect

DATE: 18/10/2010
 SURFACE RL: 88.5 m AHD
 COORDS: 306778.7 m E 6257160.3 m N MGA94 56
 EXCAVATION METHOD:

Test Pit Information					Field Material Information							
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS		
Not Encountered	PP =100kPa		88.5			TOPSOIL, Clayey SILT, dark brown		M		TOPSOIL		
			0.20		Silty CLAY, high plasticity, mottled red/brown/grey	MC~PL		Vst	RESIDUAL			
	PP =210kPa	0.50m	88.0	0.5								
		D-TP6a										
	0.60m											
	PP =580kPa	1.50m	87.0	1.50							Silty CLAY, high plasticity, mottled grey/red/brown, with siltstone bands, grey	MC<PL
D-TP6b												
1.60m												
			1.80		SILTSTONE (SHALE), grey	HW	EL - VL	BEDROCK				
			86.5	2.00		TEST PIT TP6 TERMINATED AT 2.00 m						
LOGGED: NJH					CHECKED: JE			DATE: 23/11/2010				

DATE: 18/10/2010
SURFACE RL: 88.3 m AHD
COORDS: 306634.0 m E 6256996.2 m N MGA94 56
EXCAVATION METHOD:

Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	_PP >600kPa	0.50m	88.0	0.10		TOPSOIL, Clayey SILT, dark brown		M		TOPSOIL
		D-TP7a		0.5		FILL, Silty CLAY, high plasticity, mottled red/brown/grey, with siltstone bands, some waste concrete, bonded asbestos cement sheet fragments encountered		MC-PL	H	FILL
		0.60m								
			</							

DATE: 18/10/2010
SURFACE RL: 85.2 m AHD
COORDS: 306656.1 m E 6257059.7 m N MGA94 56
EXCAVATION METHOD:

Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	,PP =120kPa	0.50m D-TP8a 0.60m	85.0	0.20		TOPSOIL, Clayey SILT, dark brown		M		TOPSOIL
			84.5	0.5		FILL, Silty CLAY, high plasticity, yellowy brown becoming greyer with depth, siltstone bands		MC~PL	H	FILL
			84.0	1.0						
	,PP =220kPa	1.50m D-TP8b 1.60m	83.5	1.5						
			1.90							
			83.0	2.00		SILTSTONE, dark red/grey		HW	EL - VL	BEDROCK
						TEST PIT TP8 TERMINATED AT 2.00 m				

LOGGED: NJH

CHECKED: JE

DATE: 23/11/2010

DATE: 18/10/2010
SURFACE RL: 83.6 m AHD
COORDS: 306651.7 m E 6257116.4 m N MGA94 56
EXCAVATION METHOD:

Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	.PP >600kPa	0.50m D-TP9a	83.5	0.30		TOPSOIL, Clayey SILT, dark brown		M		TOPSOIL
			83.0			Silty CLAY, high plasticity, mottled red/brown/grey becoming greyer with depth		MC-PL	VSt - H	RESIDUAL
	.PP =300kPa	1.00m B 1.30m 1.50m D-TP9b 1.60m	82.5	1.5						
			82.0							
			1.90							
			2.00							
				81.5			TEST PIT TP9 TERMINATED AT 2.00 m			

LOGGED: NJH

CHECKED: JE

DATE: 23/11/2010

ENVIRONMENTAL TEST PIT LOG

TP10

SHEET 1 OF 1

PROJECT No: 7600
 CLIENT: Prospect Aquatic Investments Pty Ltd
 PROJECT: Proposed Wet n Wild Theme Park
 LOCATION: Reservoir Rd, Prospect

DATE: 19/10/2010
 SURFACE RL: 80.9 m AHD
 COORDS: 306686.3 m E 6257235.5 m N MGA94 56
 EXCAVATION METHOD:

Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	PP =320kPa	0.50m D-TP10a	80.5	0.20		TOPSOIL, Clayey SILT, brown		M		TOPSOIL
		0.60m	0.5			Silty CLAY, high plasticity, mottled brown/grey/red, with siltstone bands Becoming greyer with depth		MC~PL	H	RESIDUAL
			80.0	1.0						

LOGGED: NJH

CHECKED: JE

DATE: 23/11/2010

PROJECT No: 7600

DATE: 19/10/2010

CLIENT: Prospect Aquatic Investments Pty Ltd

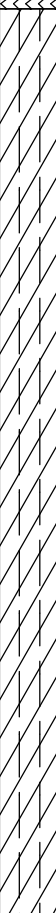
SURFACE RL: 79.7 m AHD

PROJECT: Proposed Wet n Wild Theme Park

COORDS: 306634.9 m E 6257193.6 m N MGA94 56

LOCATION: Reservoir Rd, Prospect

EXCAVATION METHOD:

Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	,PP =120kPa	0.50m D-TP11a	79.5			TOPSOIL,		M		TOPSOIL
			0.30			Silty CLAY, high plasticity, mottled red/brown, some organic matter		MC~PL	St	RESIDUAL
		0.5								
		0.60m								
		79.0								
		1.0								
		1.10m								
		78.5	B							
		1.40m								
		1.50m	D-TP11b	1.5						
1.60m										
			78.0			Silty CLAY, high plasticity, mottled grey, red, brown		VSt		
		1.80								
		2.0								
			77.5	2.20		TEST PIT TP11 TERMINATED AT 2.20 m				

LOGGED: NJH

CHECKED: JE

DATE: 23/11/2010

DATE: 19/10/2010
SURFACE RL: 86.6 m AHD
COORDS: 306569.4 m E 6257079.2 m N MGA94 56
EXCAVATION METHOD:

PROJECT No: 7600

DATE: 19/10/2010

CLIENT: Prospect Aquatic Investments Pty Ltd

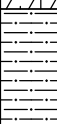
SURFACE RL: 81.9 m AHD

PROJECT: Prosposed Wet n Wild Theme Park

COORDS: 306607.9 m E 6257333.0 m N MGA94 56

LOCATION: Reservoir Rd, Prospect

EXCAVATION METHOD:

Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	PP =180kPa	0.50m D-TP13a	0.60m	0.15		TOPSOIL, Clayey SILT, brown		M		TOPSOIL
				0.5		Silty CLAY, high plasticity, mottled red/brown/grey, with some organic matter		MC~PL	St	RESIDUAL
		81.5								
		1.00m	1.0							
		B								
	1.30m									
	PP =220kPa	1.50m D-TP13b	1.60m	1.50		Silty CLAY, high plasticity, mottled grey/red/brown, siltstone bands			VSt	
				1.80						
		80.5								
		1.80		SILTSTONE, grey/red				HW - EW	EL - VL	BEDROCK
80.0										
			2.00		TEST PIT TP13 TERMINATED AT 2.00 m					
			79.5							
LOGGED: NJH					CHECKED: JE			DATE: 23/11/2010		

ENVIRONMENTAL TEST PIT LOG

TP14

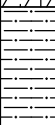
SHEET 1 OF 1

PROJECT No: 7600
 CLIENT: Prospect Aquatic Investments Pty Ltd
 PROJECT: Proposed Wet n Wild Theme Park
 LOCATION: Reservoir Rd, Prospect

DATE: 19/10/2010
 SURFACE RL: 88.1 m AHD
 COORDS: 306536.0 m E 6257366.1 m N MGA94 56
 EXCAVATION METHOD:

Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	.PP =260kPa	0.70m D-TP14a 0.80m	88.0	0.20		TOPSOIL, Clayey SILT, brown		M		TOPSOIL
			0.5			Silty CLAY, high plasticity, mottled red/brown/grey		MC~PL	VSt	RESIDUAL
			87.5							
			1.0							
			87.0	1.40		Silty CLAY, high plasticity, grey, siltstone throughout, red		MC<PL	H	
	.PP =590kPa	1.50m D-TP14b 1.60m	1.5							
			86.5	1.80			SILTSTONE, grey/red	HW	EL - VL	BEDROCK
			2.00							
			86.0			TEST PIT TP14 TERMINATED AT 2.00 m				
LOGGED: NJH					CHECKED: JE			DATE: 23/11/2010		

DATE: 20/10/2010
SURFACE RL: 90.2 m AHD
COORDS: 306481.7 m E 6257250.9 m N MGA94 56
EXCAVATION METHOD:

Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	,PP =340kPa	0.50m D-TP15a QA1 0.60m	90.0			TOPSOIL, Clayey SILT, dark brown/red		M		TOPSOIL
			0.30			Silty CLAY, high plasticity, red/brown		MC-PL	H	RESIDUAL
			0.5							
			0.60							
			89.5			Silty CLAY, high plasticity, mottled red/brown/grey, with siltstone bands				
			1.0							
			1.20m	89.0						
			B							
			1.50m D-TP15b 1.60m	1.5						
				88.5						
			1.80		SILTSTONE, grey-red		HW	EL - VL	BEDROCK	
			2.00			TEST PIT TP15 TERMINATED AT 2.00 m				
			88.0							

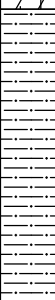
LOGGED: NJH

CHECKED: JE

DATE: 23/11/2010

DATE: 20/10/2010
SURFACE RL: 94.1 m AHD
COORDS: 306449.6 m E 6257333.6 m N MGA94 56
EXCAVATION METHOD:

DATE: 20/10/2010
SURFACE RL: 90.5 m AHD
COORDS: 306462.8 m E 6257376.8 m N MGA94 56
EXCAVATION METHOD:

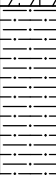
Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	.PP >600kPa	0.50m D-TP17a QA2 0.60m	90.0	0.5		TOPSOIL, clayey SILT, dark brown, becoming red with depth		M		TOPSOIL
		0.90m	0.90		Silty CLAY, high plasticity, red	MC-PL		H	RESIDUAL	
	.PP =350kPa	B	89.5	1.0		Silty CLAY, high plasticity, mottled red/grey, with siltstone bands		HW	EL - VL	BEDROCK
		1.20m	1.30		SILTSTONE, grey-red-brown					
	.PP =530kPa	1.50m D-TP17b 1.60m	89.0	1.5						
			88.5	2.0		TEST PIT TP17 TERMINATED AT 1.80 m				

LOGGED: NJH

CHECKED: JE

DATE: 23/11/2010

DATE: 20/10/2010
SURFACE RL: 89.1 m AHD
COORDS: 306398.0 m E 6257364.2 m N MGA94 56
EXCAVATION METHOD:

Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	,PP =250kPa	0.50m	89.0			TOPSOIL, Clayey SILT, dark brown		M		TOPSOIL
		D-TP18a		0.30		Silty CLAY, high plasticity, red		MC-PL	VSt	RESIDUAL
		0.60m	88.5	0.60		Silty CLAY, high plasticity, mottled red/grey, with siltstone bands				
			1.0							
			1.40							
		1.50m	88.0			SILTSTONE, grey-red-brown		HW	EL - VL	BEDROCK
		D-TP18b QA3	87.5	1.5						
		1.60m								
				2.00		TEST PIT TP18 TERMINATED AT 2.00 m				
			87.0							
LOGGED: NJH						CHECKED: JE		DATE: 23/11/2010		

PROJECT No: 7600
CLIENT: Prospect Aquatic Investments Pty Ltd
PROJECT: Proposed Wet n Wild Theme Park
LOCATION: Reservoir Rd, Prospect

DATE: 20/10/2010
SURFACE RL: 96.2 m AHD
COORDS: 306386.2 m E 6257269.2 m N MGA94 56
EXCAVATION METHOD:

Test Pit Information					Field Material Information						
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS	
Not Encountered	PP =590kPa	0.50m D-TP19a QA4 0.60m	96.0	0.30		TOPSOIL, Clayey SILT, brown/red		M		TOPSOIL	
			0.5			Silty CLAY, high plasticity, red, with sandstone bands, grey		MC<PL	H	RESIDUAL	
			95.5								
			1.00m	1.00		Silty CLAY, medium plasticity, mottled red-brown-yellow-black, with shale		MC~PL			
			95.0								
	PP >600kPa	D-TP19b 1.50m	1.30m								
			1.40m	1.40							
			1.5			TEST PIT TP19 TERMINATED AT 1.40 m					
			94.5	2.0							
			94.0								

LOGGED: NJH

CHECKED: JE

DATE: 23/11/2010

DATE: 20/10/2010
SURFACE RL: 95.7 m AHD
COORDS: 306368.9 m E 6257183.1 m N MGA94 56
EXCAVATION METHOD:

Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	,PP =240kPa	0.50m	95.5		TOPSOIL, Clayey SILT, dark brown		M		TOPSOIL	
		D-TP20a 0.60m	0.20		Silty CLAY, high plasticity, red/brown		MC-PL	Vst	RESIDUAL	
			0.5							
			0.60							
	,PP >600kPa	1.50m	95.0		Silty CLAY, high plasticity, mottled grey/red/brown					
		D-TP20b 1.60m	1.50		Silty CLAY, high plasticity, mottled grey/red, with siltstone bands		MC<PL	H		
			94.0							
			2.00			TEST PIT TP20 TERMINATED AT 2.00 m				
			93.5							
LOGGED: NJH						CHECKED: JE		DATE: 23/11/2010		

PROJECT No: 7600

DATE: 20/10/2010

CLIENT: Prospect Aquatic Investments Pty Ltd

SURFACE RL: 95.7 m AHD

PROJECT: Proposed Wet n Wild Theme Park

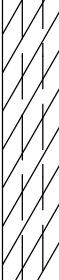
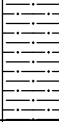
COORDS: 306334.9 m E 6257279.9 m N MGA94 56

LOCATION: Reservoir Rd, Prospect

EXCAVATION METHOD:

Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	,PP =490kPa	0.50m D-TP21a QA5 0.60m	95.5	0.30		TOPSOIL, Clayey SILT, dark brown/red		M		TOPSOIL
		0.90m B	0.5			Silty CLAY, high plasticity, mottled red/brown/grey		MC<PL	H	RESIDUAL
			1.00			Silty CLAY, high plasticity, mottled red/brown/grey, with siltstone bands				
			1.20m	94.5						
		,PP >600kPa	1.50m D-TP21b 1.60m	1.5						
	94.0		1.80		SILTSTONE, grey/red		HW	EL - VL	BEDROCK	
			93.5	2.00		TEST PIT TP21 TERMINATED AT 2.00 m				
LOGGED: NJH						CHECKED: JE		DATE: 23/11/2010		

DATE: 20/10/2010
SURFACE RL: 90.5 m AHD
COORDS: 306347.3 m E 6257359.6 m N MGA94 56
EXCAVATION METHOD:

Test Pit Information					Field Material Information						
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS	
Not Encountered	PP =520kPa	0.50m	90.0	0.5		TOPSOIL, Clayey SILT, dark brown		M		TOPSOIL	
		D-TP21a 0.60m				Silty CLAY, high plasticity, reddish brown		MC~PL	H	RESIDUAL	
		0.90m									
	PP =520kPa	B	89.5	1.00		Silty CLAY, high plasticity, mottled red/brown/grey, with siltstone bands					
		1.20m									
	PP >600kPa	1.50m D-TP22b 1.60m	89.0	1.5							
				1.70		SILTSTONE, grey-red-brown		HW	EL - VL	BEDROCK	
			88.5	2.0		TEST PIT TP22 TERMINATED AT 1.90 m					
			88.0								
LOGGED: NJH						CHECKED: JE		DATE: 23/11/2010			

DATE: 20/10/2010
SURFACE RL: 84.5 m AHD
COORDS: 306364.7 m E 6257433.0 m N MGA94 56
EXCAVATION METHOD:

Test Pit Information					Field Material Information						
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS	
Not Encountered	,PP =300kPa	0.50m	84.0	0.30		TOPSOIL, Clayey SILT, dark brown		M		TOPSOIL	
		D-TP23a		0.5		Silty CLAY, high plasticity, brown		MC-PL	VSt	RESIDUAL	
		QA6		0.60	0.60			Silty CLAY, high plasticity, mottled brown/grey			
		,PP =320kPa	1.50m	83.0	1.00			Silty CLAY, high plasticity, mottled brown/grey, with siltstone bands		H	
					D-TP23b	1.60			SILTSTONE, grey-red-brown	HW	EL - VL
		1.60m		1.90		TEST PIT TP23 TERMINATED AT 1.90 m					
			82.5	2.0							
			82.0								

LOGGED: NJH

CHECKED: JE

DATE: 23/11/2010

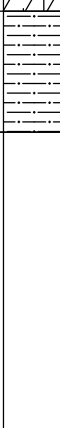
ENVIRONMENTAL TEST PIT LOG

TP24

SHEET 1 OF 1

PROJECT No: 7600
 CLIENT: Prospect Aquatic Investments Pty Ltd
 PROJECT: Proposed Wet n Wild Theme Park
 LOCATION: Reservoir Rd, Prospect

DATE: 20/10/2010
 SURFACE RL: 92.2 m AHD
 COORDS: 306482.8 m E 6257071.9 m N MGA94 56
 EXCAVATION METHOD:

Test Pit Information					Field Material Information					
WATER	FIELD TEST	SAMPLE	RL (m AHD)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION (SOIL NAME; plasticity/grain size, colour, particle shape, secondary components, minor constituents) (ROCK NAME; grain size, colour, minor constituents)	PID (ppmv)	MOISTURE/ WEATHERING	CONSISTENCY/ RELATIVE DENSITY/ STRENGTH	STRUCTURE/AESTHETICS AND ADDITIONAL OBSERVATIONS
Not Encountered	PP =350kPa	0.50m D-TP24a 0.60m	92.0	0.30		TOPSOIL, Clayey SILT, dark brown		M		TOPSOIL
			0.5			Silty CLAY, high plasticity, brown		MC-PL	VSt	RESIDUAL
			91.5	1.00		Silty CLAY, high plasticity, mottled brown/grey, with siltstone bands			H	
			91.0	1.5						
			90.5	1.70		SILTSTONE, grey-red-brown		HW	EL - VL	BEDROCK
			1.90	2.0		TEST PIT TP24 TERMINATED AT 1.90 m				
			90.0							
LOGGED: NJH					CHECKED: JE			DATE: 23/11/2010		

Appendix C

Summary of Results

Sample Identification	PQL	Guideline			TP 1a	TP 1b	TP 2a	TP 2b	TP 3a	TP 3b	TP 4a	TP 4b	TP 5a	TP 5b	TP 6a	TP 6b	TP 7a
Sample Depth (m)		HIL 'A' ^A	S/Stn ^B	EILs ^C	0.7	1.8	1.0	1.5	0.5	1.5	0.5	1.5	0.6	1.5	0.5	1.5	0.5
Date		18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10
Sample Profile					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Purpose					Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.
Sample collected by					NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH
Benzene, Toluene, Ethylbenzene, Xylene (BTEX)																	
Benzene	0.2		1		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5		1.4		<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	0.5		3.1		<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
meta- and para-Xylene	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	1.5		14		<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
Total Petroleum Hydrocarbons (TPH)																	
TPH C6-C9	10		65		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH C10-C14	50				<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TPH C15-C28	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
TPH C29-C36	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
TPH C10-C36	250		1000		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Polycyclic Aromatic Hydrocarbons (PAH)																	
Naphthalene	0.5										<0.5						
Acenaphthylene	0.5										<0.5						
Acenaphthene	0.5										<0.5						
Fluorene	0.5										<0.5						
Phenanthrene	0.5										<0.5						
Anthracene	0.5										<0.5						
Fluoranthene	0.5										<0.5						
Pyrene	0.5										<0.5						
Benz(a)anthracene	0.5										<0.5						
Chrysene	0.5										<0.5						
Benzo(b)&(k)fluoranthene	1										<1						
Benzo(a) pyrene	0.5	1									<0.5						
Indeno(1,2,3-c,d)pyrene	0.5										<0.5						
Dibenz(a,h)anthracene	0.5										<0.5						
Benzo(g,h,i)perylene	0.5										<0.5						
Sum of reported PAH	8	20									<8						
Metals																	
Arsenic	1	100		20	6	5	2	3	6	26	6	10	5	1	5	1	13
Cadmium	0.1	20		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
Chromium	1	100		1	19	12	8	7	12	16	20	22	8	9	9	6	16
Copper	2	1000		100	18	48	21	21	18	51	21	26	24	35	18	20	14
Nickel	1	600		NA	13	17	6	4	3	18	8	4	2	11	3	4	7
Lead	2	300		600	20	15	10	11	13	16	20	25	10	8	10	5	25
Zinc	5	7000		200	46	104	35	31	18	96	34	23	17	63	16	24	43
Mercury	0.05	15		1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Organochlorine Pesticides (OCP)																	
alpha-BHC	0.05										<0.05						
HCB	0.05										<0.05						
b-BHC	0.05										<0.05						
g-BHC (Lindane)	0.05										<0.05						
d-BHC	0.05										<0.05						
Heptachlor	0.05	10									<0.05						
Aldrin	0.05										0.025						
Heptachlor epoxide	0.05										<0.05						
Chlordane - trans	0.05										0.025						
Endosulfan 1	0.05										<0.05						
Chlordane - cis	0.05										0.025						
Dieldrin	0.05										0.025						
DDE	0.05										0.025						
Endrin	0.05										<0.05						
Endosulfan 2	0.05										<0.05						
DDD	0.05										0.025						
Endosulfan sulfate	0.05										<0.05						
DDT	0.2										0.1						
Methoxychlor	0.2										<0.2						
DDT+DDD+DDE	0.3	200									0.15						
Aldrin + Dieldrin	0.1	10									0.05						
Chlordane	0.1	50									0.05						
Organophosphorous Pesticides (OPP)																	
Dichlorvos	0.5										<0.5						
Mevinphos (Phosdrin)	0.5										<0.5						
Demeton (total)	1										<1						
Ethoprop	0.5										<0.5						
Monocrotophos	0.5										<0.5						
Phorate	0.5										<0.5						
Dimethoate	0.5										<0.5						
Diazinon	0.5										<0.5						
Disulfoton	0.5										<0.5						
Methyl parathion	0.5										<0.5						
Ronnel	0.5										<0.5						
Fenitrothion	0.5										<0.5						
Malathion	0.5										<0.5						
Chlorpyrifos	0.5										<0.5						
Fenthion	0.5										<0.5						
Parathion	0.5										<0.5						
Stirofos	0.5										<0.5						
Prothiofos	0.5										<0.5						
Azinophos methyl	0.5										<0.5						
Coumaphos	0.5										<0.5						

All results are in units of mg/kg.
Blank Cell indicates no criterion available
PQL = Practical Quantitation Limit.
^A NEPM 1999 HIL 'A' (Residential)
^B NSW EPA Guidelines for Assessing Service Station Sites, 1994
^C NEPC NEPM Schedule B (1) 1999. Table 5-A, EILs
Guidelines reported for Chromium are for Chromium VI
Results shown in **BOLD** are in excess of the primary acceptance criteria: HIL 'A' or the Service Station Guidelines
Results shown in *italics* are in excess of EILs
Where summation required (Xylene, TPH, PAH) calculation includes components reported as non detected as 1/2 PQL. Underlined summations are those not detected

Sample Identification	PQL	Guideline			TP 7b	TP 8a	TP 8b	TP 9a	TP 9b	TP 10a	TP 10b	TP 11a	TP 11b	TP 12a
Sample Depth (m)		HIL 'A' ^A	S/Stn ^B	EILs ^C	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5
Date						18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	19/10/10	19/10/10	19/10/10	19/10/10
Sample Profile					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Purpose					Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.
Sample collected by					NH	NH	NH	NH	NH	NH	NH	NH	NH	NH
Benzene, Toluene, Ethylbenzene, Xylene (BTEX)														
Benzene	0.2		1		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5		1.4		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5		3.1		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	1.5		14		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total Petroleum Hydrocarbons (TPH)														
TPH C6-C9	10		65		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH C10-C14	50				<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TPH C15-C28	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
TPH C29-C36	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
TPH C10-C36	250		1000		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Polycyclic Aromatic Hydrocarbons (PAH)														
Naphthalene	0.5					<0.5		<0.5	<0.5			<0.5		
Acenaphthylene	0.5					<0.5		<0.5	<0.5			<0.5		
Acenaphthene	0.5					<0.5		<0.5	<0.5			<0.5		
Fluorene	0.5					<0.5		<0.5	<0.5			<0.5		
Phenanthrene	0.5					<0.5		<0.5	<0.5			<0.5		
Anthracene	0.5					<0.5		<0.5	<0.5			<0.5		
Fluoranthene	0.5					<0.5		<0.5	<0.5			<0.5		
Pyrene	0.5					<0.5		<0.5	<0.5			<0.5		
Benz(a)anthracene	0.5					<0.5		<0.5	<0.5			<0.5		
Chrysene	0.5					<0.5		<0.5	<0.5			<0.5		
Benzo(b)&(k)fluoranthene	1					<1		<1	<1			<1		
Benzo(a) pyrene	0.5	1				<0.5		<0.5	<0.5			<0.5		
Indeno(1,2,3-c,d)pyrene	0.5					<0.5		<0.5	<0.5			<0.5		
Dibenz(a,h)anthracene	0.5					<0.5		<0.5	<0.5			<0.5		
Benzo(g,h,i)perylene	0.5					<0.5		<0.5	<0.5			<0.5		
Sum of reported PAH	8	20				<8		<8	<8			<8		
Metals														
Arsenic	1	100		20	8	5	5	7	4	6	3	6	5	9
Cadmium	0.1	20		3	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	1	100		1	12	14	7	21	8	12	13	15	13	12
Copper	2	1000		100	15	31	23	31	28	21	37	18	21	19
Nickel	1	600		NA	8	9	5	11	5	4	12	6	7	13
Lead	2	300		600	25	8	5	21	12	13	11	14	14	10
Zinc	5	7000		200	48	48	33	60	35	27	72	24	33	53
Mercury	0.05	15		1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Organochlorine Pesticides (OCP)														
alpha-BHC	0.05					<0.05		<0.05	<0.05			<0.05		
HCB	0.05					<0.05		<0.05	<0.05			<0.05		
b-BHC	0.05					<0.05		<0.05	<0.05			<0.05		
g-BHC (Lindane)	0.05					<0.05		<0.05	<0.05			<0.05		
d-BHC	0.05					<0.05		<0.05	<0.05			<0.05		
Heptachlor	0.05	10				<0.05		<0.05	<0.05			<0.05		
Aldrin	0.05					0.025		0.025	0.025			0.025		
Heptachlor epoxide	0.05					<0.05		<0.05	<0.05			<0.05		
Chlordane - trans	0.05					0.025		0.025	0.025			0.025		
Endosulfan 1	0.05					<0.05		<0.05	<0.05			<0.05		
Chlordane - cis	0.05					0.025		0.025	0.025			0.025		
Dieldrin	0.05					0.025		0.025	0.025			0.025		
DDE	0.05					0.025		0.025	0.025			0.025		
Endrin	0.05					<0.05		<0.05	<0.05			<0.05		
Endosulfan 2	0.05					<0.05		<0.05	<0.05			<0.05		
DDD	0.05					0.025		0.025	0.025			0.025		
Endosulfan sulfate	0.05					<0.05		<0.05	<0.05			<0.05		
DDT	0.2					0.1		0.1	0.1			0.1		
Methoxychlor	0.2					<0.2		<0.2	<0.2			<0.2		
DDT+DDD+DDE	0.3	200				0.15		0.15	0.15			0.15		
Aldrin + Dieldrin	0.1	10				0.05		0.05	0.05			0.05		
Chlordane	0.1	50				0.05		0.05	0.05			0.05		
Organophosphorous Pesticides (OPP)														
Dichlorvos	0.5					<0.5		<0.5	<0.5			<0.5		
Mevinphos (Phosdrin)	0.5					<0.5		<0.5	<0.5			<0.5		
Demeton (total)	1					<1		<1	<1			<1		
Ethoprop	0.5					<0.5		<0.5	<0.5			<0.5		
Monocrotophos	0.5					<0.5		<0.5	<0.5			<0.5		
Phorate	0.5					<0.5		<0.5	<0.5			<0.5		
Dimethoate	0.5					<0.5		<0.5	<0.5			<0.5		
Diazinon	0.5					<0.5		<0.5	<0.5			<0.5		
Disulfoton	0.5					<0.5		<0.5	<0.5			<0.5		
Methyl parathion	0.5					<0.5		<0.5	<0.5			<0.5		
Ronnel	0.5					<0.5		<0.5	<0.5			<0.5		
Fenitrothion	0.5					<0.5		<0.5	<0.5			<0.5		
Malathion	0.5					<0.5		<0.5	<0.5			<0.5		
Chlorpyrifos	0.5					<0.5		<0.5	<0.5			<0.5		
Fenthion	0.5					<0.5		<0.5	<0.5			<0.5		
Parathion	0.5					<0.5		<0.5	<0.5			<0.5		
Stirofos	0.5					<0.5		<0.5	<0.5			<0.5		
Prothiofos	0.5					<0.5		<0.5	<0.5			<0.5		
Azinophos methyl	0.5					<0.5		<0.5	<0.5			<0.5		
Coumaphos	0.5					<0.5		<0.5	<0.5			<0.5		

All results are in units of mg/kg.
Blank Cell indicates no criterion available
PQL = Practical Quantitation Limit.
^A NEPM 1999 HIL 'A' (Residential)
^B NSW EPA Guidelines for Assessing Service Station Sites, 1994
^C NEPC NEPM Schedule B (1) 1999. Table 5-A, EILs
Guidelines reported for Chromium are for Chromium VI
Results shown in **BOLD** are in excess of the primary acceptance criteria: HIL 'A' or the Service Station Guidelines
Results shown in *italics* are in excess of EILs
Where summation required (Xylene, TPH, PAH) calculation includes components reported as non detected as 1/2 PQL. Underlined summations are those not detected

Sample Identification	PQL	Guideline			TP 12b	TP 13a	TP 13b	TP 14a	TP 14b	TP 15a	TP 15b	TP 17a	TP 17b	TP 18a
Sample Depth (m)		HIL 'A' ^A	S/Stn ^B	EILs ^C	1.5	0.5	1.5	0.7	1.5	0.5	1.5	0.5	1.5	0.5
Date						19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	20/10/10	20/10/10	20/10/10	20/10/10
Sample Profile					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Purpose					Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.
Sample collected by					NH	NH	NH	NH	NH	NH	NH	NH	NH	NH
Benzene, Toluene, Ethylbenzene, Xylene (BTEX)														
Benzene	0.2		1		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5		1.4		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5		3.1		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	1.5		14		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total Petroleum Hydrocarbons (TPH)														
TPH C6-C9	10		65		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH C10-C14	50				<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TPH C15-C28	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
TPH C29-C36	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
TPH C10-C36	250		1000		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Polycyclic Aromatic Hydrocarbons (PAH)														
Naphthalene	0.5													
Acenaphthylene	0.5													
Acenaphthene	0.5													
Fluorene	0.5													
Phenanthrene	0.5													
Anthracene	0.5													
Fluoranthene	0.5													
Pyrene	0.5													
Benz(a)anthracene	0.5													
Chrysene	0.5													
Benzo(b)&(k)fluoranthene	1													
Benzo(a) pyrene	0.5	1												
Indeno(1,2,3-c,d)pyrene	0.5													
Dibenz(a,h)anthracene	0.5													
Benzo(g,h,i)perylene	0.5													
Sum of reported PAH	8	20												
Metals														
Arsenic	1	100		20	23	4	<1	5	1	15	5	19	7	9
Cadmium	0.1	20		3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	1	100		1	18	10	6	16	14	24	10	26	13	30
Copper	2	1000		100	57	20	16	40	38	26	21	45	28	35
Nickel	1	600		NA	44	5	6	8	13	10	7	23	17	14
Lead	2	300		600	18	12	7	17	13	13	8	24	11	15
Zinc	5	7000		200	166	25	31	46	69	44	37	89	60	73
Mercury	0.05	15		1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Organochlorine Pesticides (OCP)														
alpha-BHC	0.05													
HCB	0.05													
b-BHC	0.05													
g-BHC (Lindane)	0.05													
d-BHC	0.05													
Heptachlor	0.05	10												
Aldrin	0.05													
Heptachlor epoxide	0.05													
Chlordane - trans	0.05													
Endosulfan 1	0.05													
Chlordane - cis	0.05													
Dieldrin	0.05													
DDE	0.05													
Endrin	0.05													
Endosulfan 2	0.05													
DDD	0.05													
Endosulfan sulfate	0.05													
DDT	0.2													
Methoxychlor	0.2													
DDT+DDD+DDE	0.3	200												
Aldrin + Dieldrin	0.1	10												
Chlordane	0.1	50												
Organophosphorous Pesticides (OPP)														
Dichlorvos	0.5													
Mevinphos (Phosdrin)	0.5													
Demeton (total)	1													
Ethoprop	0.5													
Monocrotophos	0.5													
Phorate	0.5													
Dimethoate	0.5													
Diazinon	0.5													
Disulfoton	0.5													
Methyl parathion	0.5													
Ronnel	0.5													
Fenitrothion	0.5													
Malathion	0.5													
Chlorpyrifos	0.5													
Fenthion	0.5													
Parathion	0.5													
Stirofos	0.5													
Prothiofos	0.5													
Azinophos methyl	0.5													
Coumaphos	0.5													

All results are in units of mg/kg.
Blank Cell indicates no criterion available
PQL = Practical Quantitation Limit.
^A NEPM 1999 HIL 'A' (Residential)
^B NSW EPA Guidelines for Assessing Service Station Sites, 1994
^C NEPC NEPM Schedule B (1) 1999. Table 5-A, EILs
Guidelines reported for Chromium are for Chromium VI
Results shown in **BOLD** are in excess of the primary acceptance criteria: HIL 'A' or the Service Station Guidelines
Results shown in *italics* are in excess of EILs
Where summation required (Xylene, TPH, PAH) calculation includes components reported as non detected as 1/2 PQL. Underlined summations are those not detected

Sample Identification	PQL	Guideline			TP 18b	TP 19a	TP 19b	TP 20a	TP 20b	TP 21a	TP 21b	TP 22a	TP 22b	TP 23a
Sample Depth (m)		HIL 'A' ^A	S/Stn ^B	EILs ^C	1.5	0.5	1.4	0.5	1.5	0.5	1.5	0.5	1.5	0.5
Date						20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10
Sample Profile					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Purpose					Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.
Sample collected by					NH	NH	NH	NH	NH	NH	NH	NH	NH	NH
Benzene, Toluene, Ethylbenzene, Xylene (BTEX)														
Benzene	0.2		1		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5		1.4		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5		3.1		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	1.5		14		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total Petroleum Hydrocarbons (TPH)														
TPH C6-C9	10		65		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH C10-C14	50				<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TPH C15-C28	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
TPH C29-C36	100				<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
TPH C10-C36	250		1000		<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
Polycyclic Aromatic Hydrocarbons (PAH)														
Naphthalene	0.5													
Acenaphthylene	0.5													
Acenaphthene	0.5													
Fluorene	0.5													
Phenanthrene	0.5													
Anthracene	0.5													
Fluoranthene	0.5													
Pyrene	0.5													
Benz(a)anthracene	0.5													
Chrysene	0.5													
Benzo(b)&(k)fluoranthene	1													
Benzo(a) pyrene	0.5	1												
Indeno(1,2,3-c,d)pyrene	0.5													
Dibenz(a,h)anthracene	0.5													
Benzo(g,h,i)perylene	0.5													
Sum of reported PAH	8	20												
Metals														
Arsenic	1	100		20	3	7	5	4	2	4	2	10	4	5
Cadmium	0.1	20		3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	1	100		1	15	23	19	18	14	21	17	21	13	16
Copper	2	1000		100	25	33	31	21	21	34	31	32	23	23
Nickel	1	600		NA	6	21	14	6	10	15	15	10	10	8
Lead	2	300		600	8	13	9	13	13	14	13	15	11	11
Zinc	5	7000		200	33	89	72	30	44	74	78	56	51	37
Mercury	0.05	15		1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Organochlorine Pesticides (OCP)														
alpha-BHC	0.05													
HCB	0.05													
b-BHC	0.05													
g-BHC (Lindane)	0.05													
d-BHC	0.05													
Heptachlor	0.05	10												
Aldrin	0.05													
Heptachlor epoxide	0.05													
Chlordane - trans	0.05													
Endosulfan 1	0.05													
Chlordane - cis	0.05													
Dieldrin	0.05													
DDE	0.05													
Endrin	0.05													
Endosulfan 2	0.05													
DDD	0.05													
Endosulfan sulfate	0.05													
DDT	0.2													
Methoxychlor	0.2													
DDT+DDD+DDE	0.3	200												
Aldrin + Dieldrin	0.1	10												
Chlordane	0.1	50												
Organophosphorous Pesticides (OPP)														
Dichlorvos	0.5													
Mevinphos (Phosdrin)	0.5													
Demeton (total)	1													
Ethoprop	0.5													
Monocrotophos	0.5													
Phorate	0.5													
Dimethoate	0.5													
Diazinon	0.5													
Disulfoton	0.5													
Methyl parathion	0.5													
Ronnel	0.5													
Fenitrothion	0.5													
Malathion	0.5													
Chlorpyrifos	0.5													
Fenthion	0.5													
Parathion	0.5													
Stirofos	0.5													
Prothiofos	0.5													
Azinophos methyl	0.5													
Coumaphos	0.5													

All results are in units of mg/kg.
Blank Cell indicates no criterion available
PQL = Practical Quantitation Limit.
^A NEPM 1999 HIL 'A' (Residential)
^B NSW EPA Guidelines for Assessing Service Station Sites, 1994
^C NEPC NEPM Schedule B (1) 1999. Table 5-A, EILs
Guidelines reported for Chromium are for Chromium VI
Results shown in **BOLD** are in excess of the primary acceptance criteria: HIL 'A' or the Service Station Guidelines
Results shown in *italics* are in excess of EILs
Where summation required (Xylene, TPH, PAH) calculation includes components reported as non detected as 1/2 PQL. Underlined summations are those not detected

Sample Identification	PQL	Guideline			TP 23b	TP 24a	TP 24b	ES1	ES2	ES3	ES4	ES5	ES6	ES7
Sample Depth (m)		HIL 'A' ^A	S/Stn ^B	EILs ^C	1.5	0.5	1.5	0.1	0.1	0.15	0.2	0.15	0.1	0.1
Date					20/10/10	20/10/10	20/10/10	21/10/10	21/10/10	21/10/10	21/10/10	21/10/10	21/10/10	21/10/10
Sample Profile					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Purpose					Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.
Sample collected by					NH	NH	NH	NH	NH	NH	NH	NH	NH	NH
Benzene, Toluene, Ethylbenzene, Xylene (BTEX)														
Benzene	0.2		1		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5		1.4		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5		3.1		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	1.5		14		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total Petroleum Hydrocarbons (TPH)														
TPH C6-C9	10		65		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH C10-C14	50				<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TPH C15-C28	100				<100	<100	<100	230	<100	<100	<100	<100	<100	<100
TPH C29-C36	100				<100	<100	<100	270	100	<100	<100	<100	140	<100
TPH C10-C36	250		1000		<250	<250	<250	500	100	<250	<250	<250	140	<250
Polycyclic Aromatic Hydrocarbons (PAH)														
Naphthalene	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b)&(k)fluoranthene	1							<1	<1	<1	<1	<1	<1	<1
Benzo(a) pyrene	0.5	1						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of reported PAH	8	20						<8	<8	<8	<8	<8	<8	<8
Metals														
Arsenic	1	100		20	1	10	8	19	9	7	7	3	5	4
Cadmium	0.1	20		3	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
Chromium	1	100		1	15	15	11	15	16	19	17	16	13	10
Copper	2	1000		100	39	26	38	27	15	26	26	22	18	25
Nickel	1	600		NA	15	8	19	9	6	15	5	12	6	15
Lead	2	300		600	9	12	10	80	21	37	21	34	26	20
Zinc	5	7000		200	72	45	93	111	45	51	29	60	40	101
Mercury	0.05	15		1	<0.05	<0.05	<0.05	0.06	<0.05	0.06	<0.05	0.05	<0.05	<0.05
Organochlorine Pesticides (OCP)														
alpha-BHC	0.05							<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
HCB	0.05							<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
b-BHC	0.05							<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
g-BHC (Lindane)	0.05							<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
d-BHC	0.05							<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	0.05	10						<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	0.05							0.025	0.025	0.025	0.025	0.025	0.025	0.025
Heptachlor epoxide	0.05							<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlordane - trans	0.05							0.025	0.025	0.025	0.025	0.025	0.025	0.025
Endosulfan 1	0.05							<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlordane - cis	0.05							0.025	0.025	0.025	0.025	0.025	0.025	0.025
Dieldrin	0.05							0.025	0.025	0.025	0.025	0.025	0.025	0.025
DDE	0.05							0.09	0.025	0.025	0.17	0.025	0.025	0.025
Endrin	0.05							<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	0.05							<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDD	0.05							0.025	0.025	0.025	0.025	0.025	0.025	0.025
Endosulfan sulfate	0.05							<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDT	0.2							0.1	0.1	0.1	0.1	0.1	0.1	0.1
Methoxychlor	0.2							<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
DDT+DDD+DDE	0.3	200						0.215	0.15	0.15	0.295	0.15	0.15	0.15
Aldrin + Dieldrin	0.1	10						0.05	0.05	0.05	0.05	0.05	0.05	0.05
Chlordane	0.1	50						0.05	0.05	0.05	0.05	0.05	0.05	0.05
Organophosphorous Pesticides (OPP)														
Dichlorvos	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Mevinphos (Phosdrin)	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Demeton (total)	1							<1	<1	<1	<1	<1	<1	<1
Ethoprop	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Monocrotophos	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phorate	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Disulfoton	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl parathion	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ronnel	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Parathion	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Stirofos	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Azinophos methyl	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Coumaphos	0.5							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

All results are in units of mg/kg.
Blank Cell indicates no criterion available
PQL = Practical Quantitation Limit.
^A NEPM 1999 HIL 'A' (Residential)
^B NSW EPA Guidelines for Assessing Service Station Sites, 1994
^C NEPC NEPM Schedule B (1) 1999. Table 5-A, EILs
Guidelines reported for Chromium are for Chromium VI
Results shown in **BOLD** are in excess of the primary acceptance criteria: HIL 'A' or the Service Station Guidelines
Results shown in *italics* are in excess of EILs
Where summation required (Xylene, TPH, PAH) calculation includes components reported as non detected as 1/2 PQL. Underlined summations are those not detected

Sample Identification	PQL	Guideline			ES8	ES9	ES10	ES11	ES12	ES13	ES14	ES15	ES16
Sample Depth (m)		HIL 'A' ^A	S/Stn ^B	EILs ^C	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2
Date					21/10/10	21/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10
Sample Profile					Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Purpose					Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.	Inv.
Sample collected by					NH	NH	NH	NH	NH	NH	NH	NH	NH
Benzene, Toluene, Ethylbenzene, Xylene (BTEX)													
Benzene	0.2		1		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5		1.4		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5		3.1		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1				<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	1.5		14		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Total Petroleum Hydrocarbons (TPH)													
TPH C6-C9	10		65		<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH C10-C14	50				<50	<50	<50	<50	<50	<50	<50	<50	<50
TPH C15-C28	100				<100	<100	<100	<100	<100	<100	<100	<100	<100
TPH C29-C36	100				<100	160	120	<100	<100	<100	130	100	<100
TPH C10-C36	250		1000		<250	160	120	<250	<250	<250	130	100	<250
Polycyclic Aromatic Hydrocarbons (PAH)													
Naphthalene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b)&(k)fluoranthene	1				<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a) pyrene	0.5	1			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of reported PAH	8	20			<8	<8	<8	<8	<8	<8	<8	<8	<8
Metals													
Arsenic	1	100		20	6	5	13	7	11	11	21	23	5
Cadmium	0.1	20		3	0.3	0.2	0.3	0.2	0.1	0.2	0.2	0.2	<0.1
Chromium	1	100		1	18	7	18	16	19	13	16	19	14
Copper	2	1000		100	40	16	27	22	19	17	60	42	28
Nickel	1	600		NA	27	13	7	5	5	7	5	6	12
Lead	2	300		600	63	22	48	21	22	45	86	70	23
Zinc	5	7000		200	160	74	120	41	40	54	85	46	94
Mercury	0.05	15		1	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Organochlorine Pesticides (OCP)													
alpha-BHC	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
HCB	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
b-BHC	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
g-BHC (Lindane)	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
d-BHC	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	0.05	10			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	0.05				<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>
Heptachlor epoxide	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlordane - trans	0.05				<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>
Endosulfan 1	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlordane - cis	0.05				<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>
Dieldrin	0.05				<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>
DDE	0.05				<u>0.025</u>	<u>0.025</u>	0.18	0.58	<u>0.025</u>	<u>0.025</u>	0.9	0.41	<u>0.025</u>
Endrin	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDD	0.05				<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>	<u>0.025</u>
Endosulfan sulfate	0.05				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDT	0.2				<u>0.1</u>	<u>0.1</u>	<u>0.1</u>	<u>0.1</u>	<u>0.1</u>	<u>0.1</u>	<u>0.1</u>	<u>0.1</u>	<u>0.1</u>
Methoxychlor	0.2				<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
DDT+DDD+DDE	0.3	200			0.15	0.15	0.305	0.705	0.15	0.15	1.025	0.535	0.15
Aldrin + Dieldrin	0.1	10			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Chlordane	0.1	50			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Organophosphorous Pesticides (OPP)													
Dichlorvos	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Mevinphos (Phosdrin)	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Demeton (total)	1				<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethoprop	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Monocrotophos	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phorate	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Disulfoton	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl parathion	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ronnel	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Parathion	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Stirofos	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Azinophos methyl	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Coumaphos	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

All results are in units of mg/kg.
Blank Cell indicates no criterion available
PQL = Practical Quantitation Limit.
^A NEPM 1999 HIL 'A' (Residential)
^B NSW EPA Guidelines for Assessing Service Station Sites, 1994
^C NEPC NEPM Schedule B (1) 1999, Table 5-A, EILs
Guidelines reported for Chromium are for Chromium VI
Results shown in **BOLD** are in excess of the primary acceptance criteria: HIL 'A' or the Service Station Guidelines
Results shown in *italics* are in excess of EILs
Where summation required (Xylene, TPH, PAH) calculation includes components reported as non detected as 1/2 PQL. Underlined summations are those not detected

Sample Identification	TP15a	QA1	RPD %	TP17a	QA2	RPD %	TP18b	QA3	RPD %	TP19a	QA4	RPD %	TP21a	QA5	RPD %
Sample Depth (m)	0.5			0.5			1.5			0.5					
Date	20/10/10			20/10/10			20/10/10			20/10/10					
Duplicate Type	Intralaboratory			Interlaboratory			Intralaboratory			Interlaboratory					
Sample Profile	Soil			Soil			Soil			Soil					
Sample Purpose	Inv.			Inv.			Inv.			Inv.			Inv.		
Sample collected by	NH			NH			NH			NH			NH		
Benzene, Toluene, Ethylbenzene, Xylene (BTEX)															
Benzene	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0
Toluene	0.25	0.25	0.0	0.25	0.25	0.0	0.25	0.25	0.0	0.25	0.25	0.0	0.25	0.25	0.0
Ethylbenzene	0.25	0.25	0.0	0.25	0.25	0.0	0.25	0.25	0.0	0.25	0.25	0.0	0.25	0.25	0.0
meta- and para-Xylene	0.5	0.5	0.0	0.5	0.25	66.7	0.5	0.5	0.0	0.5	0.25	66.7	0.5	0.5	0.0
ortho-Xylene	0.25	0.25	0.0	0.25	0.25	0.0	0.25	0.25	0.0	0.25	0.25	0.0	0.25	0.25	0.0
Total Xylenes	0.5	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.0
Total Petroleum Hydrocarbons (TPH)															
TPH C6-C9	5	5	0.0	5	5	0.0	5	5	0.0	5	5	0.0	5	5	0.0
TPH C10-C14	25	25	0.0	25	25	0.0	25	25	0.0	25	25	0.0	25	25	0.0
TPH C15-C28	50	50	0.0	50	50	0.0	50	50	0.0	50	50	0.0	50	50	0.0
TPH C29-C36	50	50	0.0	50	50	0.0	50	50	0.0	50	50	0.0	50	50	0.0
TPH C10-C36	125	125	0.0	125	25	133.3	125	125	0.0	125	25	133.3	125	125	0.0
Metals															
Arsenic	15	13	14.3	19	19	0.0	3	5	50.0	7	11	44.4	4	4	0.0
Cadmium	0.05	0.05	0.0	0.05	0.5	163.6	0.05	0.05	0.0	0.05	0.5	163.6	0.05	0.05	0.0
Chromium	24	13	59.5	26	29	10.9	15	16	6.5	23	32	32.7	21	15	33.3
Copper	26	12	73.7	45	47	4.3	25	45	57.1	33	48	37.0	34	36	5.7
Nickel	10	3	107.7	23	25	8.3	6	5	18.2	21	41	64.5	15	12	22.2
Lead	13	14	7.4	24	20	18.2	8	11	31.6	13	21	47.1	14	12	15.4
Zinc	44	16	93.3	89	97	8.6	33	39	16.7	89	151	51.7	74	62	17.6
Mercury	0.025	0.025	0.0	0.025	0.05	66.7	0.025	0.025	0.0	0.025	0.05	66.7	0.025	0.025	0.0

Note all units in mg/kg except for trip spikes results in % recovery

Results underlined were not detected and are reported as half the detection limit for statistical purpose.

BOLD identifies where RPD results

intralaboratory interlaboratory

>50	>60	where both sample results exceed ten x PQL
>75	>85	where both sample results are within 5 to 10 x PQL
>100	>100	where both sample results are within 2 to 5 x PQL
AD>2.5 * PQL		where one or both sample results are <2 x PQL

BOLD identified where blanks >0

Where results are within two of the above ranges the most conservative criteria have been used to assess duplicate performance

Sample Identification	TP23a	QA6	RPD %	ES8	QA7	RPD %	ES16	QA8	RPD %	QB1	QB2	QB3	QB4
Sample Depth (m)	0.5			0.2			0.2						
Date	20/10/10			21/10/10			22/10/10						
Duplicate Type	Interlaboratory			Intralaboratory			Interlaboratory						
Sample Profile	Soil			Soil			Soil			Blank	Blank	Blank	Blank
Sample Purpose	Inv.			Inv.			Inv.						
Sample collected by	NH			NH			NH						
Benzene, Toluene, Ethylbenzene, Xylene (BTEX)													
Benzene	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	<0.2	<0.2	<0.2	<0.2
Toluene	0.25	0.25	0.0	0.25	0.25	0.0	0.25	0.25	0.0	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.25	0.25	0.0	0.25	0.25	0.0	0.25	0.25	0.0	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	0.5	0.25	66.7	0.5	0.5	0.0	0.5	0.25	66.7	<1	<1	<1	<1
ortho-Xylene	0.25	0.25	0.0	0.25	0.25	0.0	0.25	0.25	0.0	<0.5	<0.5	<0.5	<0.5
Total Xylenes	0.5	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.0	<1.5	<1.5	<1.5	<1.5
Total Petroleum Hydrocarbons (TPH)													
TPH C6-C9	5	5	0.0	5	5	0.0	5	5	0.0	<10	<10	<10	<10
TPH C10-C14	25	25	0.0	25	25	0.0	25	25	0.0	<50	<50	<50	<50
TPH C15-C28	50	50	0.0	50	50	0.0	50	50	0.0	<100	<100	<100	<100
TPH C29-C36	50	50	0.0	50	50	0.0	50	50	0.0	<100	<100	<100	<100
TPH C10-C36	125	25	133.3	125	125	0.0	125	25	133.3	<250	<250	<250	<250
Metals													
Arsenic	5	9	57.1	6	6	0.0	5	7	33.3	1	1	1	<1
Cadmium	0.05	0.5	163.6	0.3	0.2	40.0	0.05	0.5	163.6	<0.1	<0.1	<0.1	<0.1
Chromium	16	20	22.2	18	20	10.5	14	26	60.0	4	4	4	3
Copper	23	29	23.1	40	36	10.5	28	33	16.4	<2	2	<2	<2
Nickel	8	9	11.8	27	27	0.0	12	19	45.2	4	5	4	3
Lead	11	15	30.8	63	58	8.3	23	35	41.4	<2	<2	<2	<2
Zinc	37	46	21.7	160	145	9.8	94	145	42.7	5	6	5	<5
Mercury	0.025	0.05	66.7	0.025	0.07	94.7	0.025	0.05	66.7	<0.05	<0.05	<0.05	<0.05

Note all units in mg/kg except for trip spikes results in % recovery

Results underlined were not detected and are reported as half the detection limit for statistical purpose.

BOLD identifies where RPD results

intralaboratory	interlaboratory	
>50	>60	where both sample results exceed ten x PQL
>75	>85	where both sample results are within 5 to 10 x PQL
>100	>100	where both sample results are within 2 to 5 x PQL
AD>2.5 * PQL		where one or both sample results are <2 x PQL

BOLD identified where blanks >0

Where results are within two of the above ranges the most conservative criteria have been used to assess duplicate performance

Sample Identification	PQL		EW1	EW2	EW3	EW4	EW5
Date		95% Fresh ^A	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10
Sample Purpose			Inv.	Inv.	Inv.	Inv.	Inv.
Sample Appearance			very brown/turbid	brown/turbid	brown/turbid	brown/turbid	brown/turbid
Sample collected by			NH	NH	NH	NH	NH
Benzene, Toluene, Ethylbenzene, Xylene (BTEX)							
Benzene	1	950	<1	<1	<1	<1	<1
Toluene	1	<i>180</i>	<1	<1	<1	<1	<1
Ethylbenzene	1	<i>80</i>	<1	<1	<1	<1	<1
meta- & para-Xylene	2	<i>275</i>	<2	<2	<2	<2	<2
Ortho-xylene	1	350	<1	<1	<1	<1	<1
Total Xylenes	3	625	<3	<3	<3	<3	<3
Total Petroleum Hydrocarbons (TPH)							
TPH C6-C9	50		<50	<50	<50	<50	<50
TPH C10-C14	50		<50	<50	<50	<50	<50
TPH C15-C28	200		3440	250	<200	<200	<200
TPH C29-C36	50		3460	70	<50	<50	<50
TPH C6-C36	350	<i>7</i>	6900	320	<350	<350	<350
Polycyclic Aromatic Hydrocarbons (PAH)							
Naphthalene	0.1	16	1.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	0.1		<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	0.1		<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	0.1		0.8	<0.1	<0.1	<0.1	<0.1
Phenanthrene	0.1	<i>2</i>	5	0.2	<0.1	<0.1	<0.1
Anthracene	0.1	<i>0.4</i>	0.3	<0.1	<0.1	<0.1	<0.1
Fluoranthene	0.1	<i>1.4</i>	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	0.1		<0.1	<0.1	<0.1	<0.1	<0.1
Benz(a)anthracene	0.1		<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	0.1		<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)&(k)fluoranthene	0.2		<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a) pyrene	0.05	<i>0.2</i>	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	0.1		<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene	0.1		<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	0.1		<0.1	<0.1	<0.1	<0.1	<0.1
Sum of reported PAH	1.55		7.2	0.2	<1.55	<1.55	<1.55
Metals							
Arsenic	1	13	*<5	*<10	*<10	*<10	*<10
Cadmium	0.1	0.2	<0.1	0.5	0.2	0.2	0.3
Chromium	1	1	<1	*<10	*<10	*<10	*<10
Copper	1	1.4	*<10	*<10	*<10	*<10	*<10
Nickel	1	11	*<10	21	18	14	19
Lead	1	3.4	<1	1	2	<1	1
Zinc	5	8	<5	28	29	27	33
Mercury	0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1

All results in µg/L

PQL = Practical Quantitation Limit.

^A ANZECC 2000 95% Protection Level for Receiving Water Type^B Environmental Quality Objectives in the Netherlands, 1994

Arsenic guideline based on As (III) for marine and As (V) for fresh, the lowest of presented guidelines.

Guidelines for Chromium are based on Cr (VI), and Mercury is for inorganic mercury.

Results shown in **BOLD** are in excess of the primary acceptance criteria: A ANZECC 2000 95% Protection Level for Receiving Water TypeWhere summation required (Xylene, TPH, PAH) calculation includes components reported as non detected as 1/2 PQL. Underlined summations are those not detected

*PQL increased due to matrix interference.

Sample Identification	EW4	QA1	RPD %	WB1
Date	22/10/2010			Blank
Duplicate Type	Intralaboratory			
Sample Purpose	Inv.			
Sample Appearance	brown, turbid			
Sample collected by	NH			
Benzene, Toluene, Ethylbenzene, Xylene (BTEX)				
Benzene	0.5	0.5	0.0	<1
Toluene	0.5	0.5	0.0	<1
Ethylbenzene	0.5	0.5	0.0	<1
meta- & para-Xylene	1	1	0.0	<2
Ortho-xylene	0.5	0.5	0.0	<1
Total Petroleum Hydrocarbons (TPH)				
TPH C6-C9	25	25	0.0	<50
TPH C10-C14	25	25	0.0	<50
TPH C15-C28	100	100	0.0	<200
TPH C29-C36	25	25	0.0	<50
TPH C6-C36	150	150	0.0	<250
Polycyclic Aromatic Hydrocarbons (PAH)				
Naphthalene	0.05	0.05	0.0	<0.1
Acenaphthylene	0.05	0.05	0.0	<0.1
Acenaphthene	0.05	0.05	0.0	<0.1
Fluorene	0.05	0.05	0.0	<0.1
Phenanthrene	0.05	0.05	0.0	<0.1
Anthracene	0.05	0.05	0.0	<0.1
Fluoranthene	0.05	0.05	0.0	<0.1
Pyrene	0.05	0.05	0.0	<0.1
Benz(a)anthracene	0.05	0.05	0.0	<0.1
Chrysene	0.05	0.05	0.0	<0.1
Benzo(b)&(k)fluoranthene	0.1	0.1	0.0	<0.2
Benzo(a)pyrene	0.025	0.025	0.0	<0.05
Indeno(1,2,3-c,d)pyrene	0.05	0.05	0.0	<0.1
Dibenz(a,h)anthracene	0.05	0.05	0.0	<0.1
Benzo(g,h,i)perylene	0.05	0.05	0.0	<0.1
Sum of reported PAH	0.775	0.775	0.0	<1.55
Metals				
Arsenic	5	5	0.0	<1
Cadmium	0.2	0.3	40.0	<0.1
Chromium	5	5	0.0	2
Copper	5	5	0.0	4
Nickel	14	14	0.0	<1
Lead	0.5	0.5	0.0	<1
Zinc	27	29	7.1	36
Mercury	0.05	0.05	0.0	<0.1

Note all units in $\mu\text{g/L}$ except for trip spikes results in % recovery
Results underlined were not detected and are reported as half the detection limit for statistical purpose.

BOLD identifies where RPD results

intralaboratory	interlaboratory	
>50	>60	where both sample results exceed ten x PQL
>75	>85	where both sample results are within 5 to 10 x PQL
>100	>100	where both sample results are within 2 to 5 x PQL
AD>2.5 * PQL		where one or both sample results are <2 x PQL

BOLD identified where blanks >0

Where results are within two of the above ranges the most conservative criteria have been used to assess duplicate performance

Appendix D

Permeability Calculations

PIEZOMETER TEST

Client PAI
Project Groundwater Monitoring

Job No. 7600
Date 22/10/2010

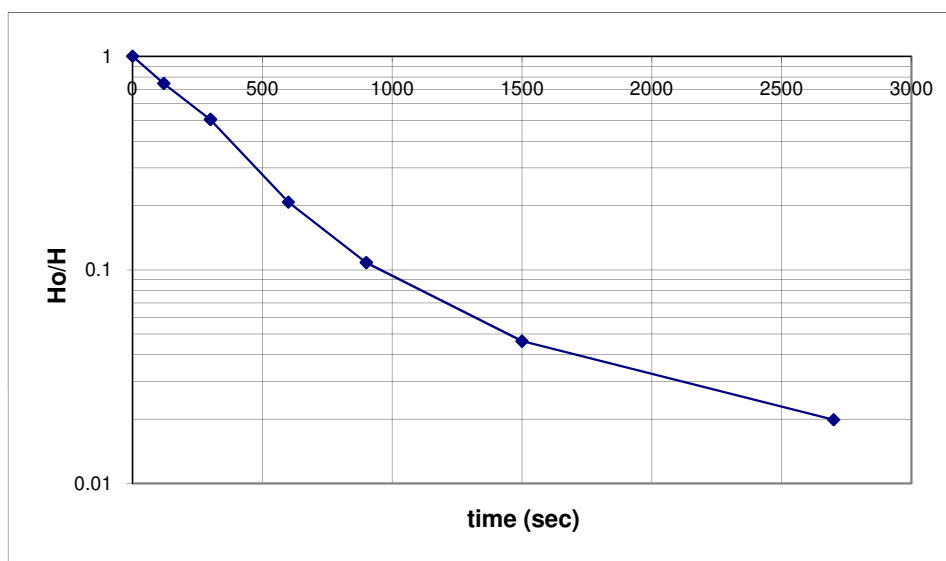
Bore Details

Bore No. BH2 (EW4)
Piezometer length (L) 3 m
Piezometer radius (r) 0.025 m
Bore radius (R) 0.1 m
Depth of piezometer 6.93 m
Static water level 1.33 m
Lag time To 425 sec
(37% recovery)

Test Method Rising Head
Falling Head

Results

Time (sec)	Depth to water (m)	Change in level (m)	H / Ho
Static	1.33		
0	5.86	-4.53	1
120	4.71	-3.38	0.7461369
300	3.62	-2.29	0.5055188
600	2.27	-0.94	0.2075055
900	1.82	-0.49	0.1081678
1500	1.54	-0.21	0.0463576
2700	1.42	-0.09	0.0198675



Based on Hvorslev method

$$K = \frac{r^2 \ln(L/R)}{2LT_o}$$

Form F - Log - 006

Calculated Permeability

8.3E-07 m / sec

ROBERT CARR & ASSOCIATES PTY LTD

Geotechnical and Environmental

PIEZOMETER TEST

Client PAI
Project Groundwater Monitoring

Job No. 7600
Date 22/10/2010

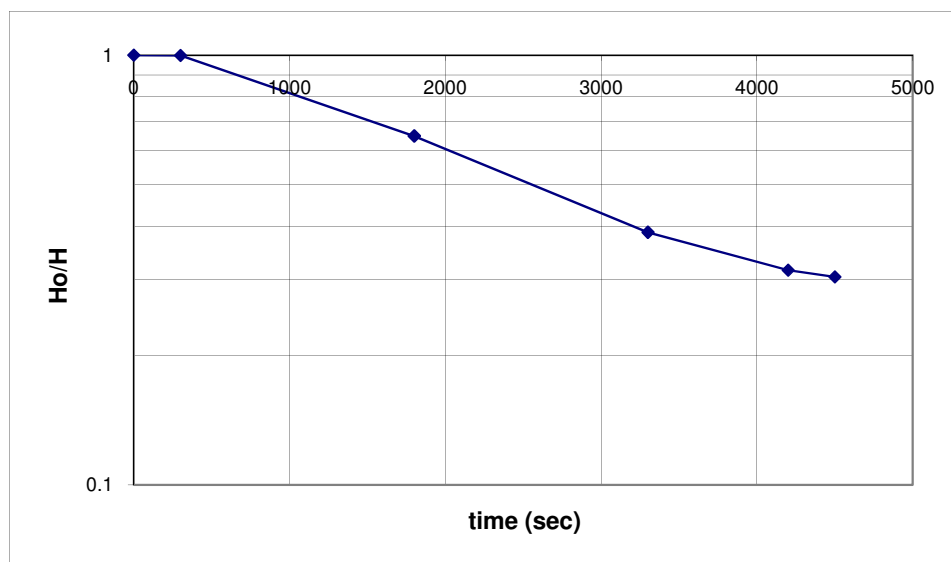
Bore Details

Bore No. BH5 (EW5)
Piezometer length (L) 3 m
Piezometer radius (r) 0.025 m
Bore radius (R) 0.1 m
Depth of piezometer 8.94 m
Static water level 0.65 m
Lag time To 3500 sec
(37% recovery)

Results

Time (sec)	Depth to water (m)	Change in level (m)	H / Ho
Static	0.65		
0	6	-5.35	1
300	5.99	-5.34	0.9981308
1800	4.12	-3.47	0.6485981
3300	2.72	-2.07	0.3869159
4200	2.34	-1.69	0.3158879
4500	2.28	-1.63	0.3046729

Test Method Rising Head



Based on Hvorslev method

$$K = \frac{r^2 \ln(L/R)}{2LT_o}$$

Form F - Log - 006

Calculated Permeability

1.0E-07 m / sec

ROBERT CARR & ASSOCIATES PTY LTD
Geotechnical and Environmental

PIEZOMETER TEST

Client PAI
Project Groundwater Monitoring

Job No. 7600
Date 22/10/2010

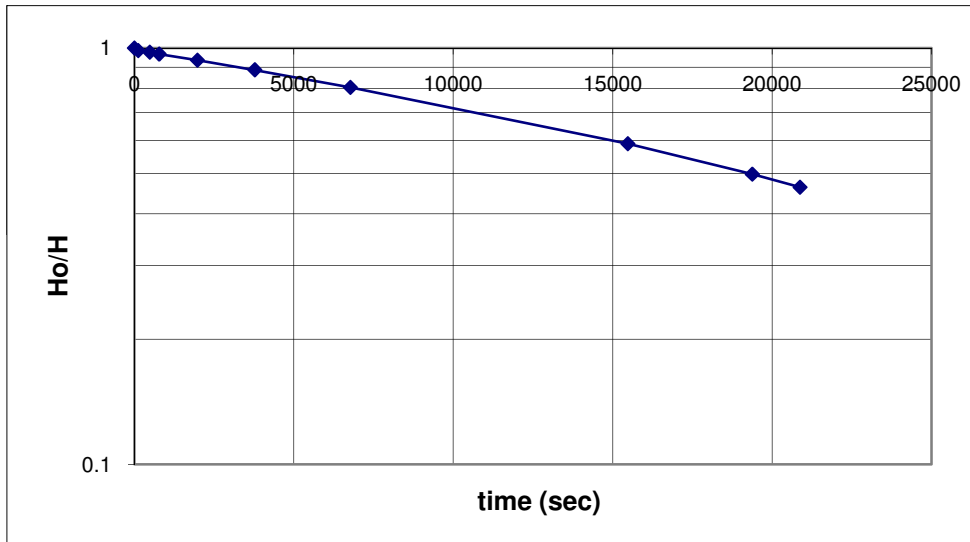
Bore Details

Bore No. BH8 (EW2)
Piezometer length (L) 3 m
Piezometer radius (r) 0.025 m
Bore radius (R) 0.1 m
Depth of piezometer 10.51 m
Static water level m
Lag time To 2500 sec
(37% recovery)

Test Method Rising Head

Results

Time (sec)	Depth to water (m)	Change in level (m)	H / Ho
Static	5.45		
0	10.37	-4.92	1
120	10.3	-4.85	0.9857724
480	10.26	-4.81	0.9776423
780	10.21	-4.76	0.9674797
1980	10.05	-4.6	0.9349593
3780	9.81	-4.36	0.8861789
6780	9.41	-3.96	0.804878
15480	8.35	-2.9	0.5894309
19380	7.9	-2.45	0.4979675
20880	7.73	-2.28	0.4634146



Based on Hvorslev method

$$K = \frac{r^2 \ln(L/R)}{2LT_o}$$

Form F - Log - 006

Calculated Permeability

1.4E-07 m / sec

ROBERT CARR & ASSOCIATES PTY LTD
Geotechnical and Environmental

Prospect Aquatic Investments (PAI)
Wet 'n' Wild
Prospect NSW
JN7600-403/0, November 2009

Prepared by: NH
Checked by: MC

PIEZOMETER TEST

Client PAI
Project Groundwater Monitoring

Job No. 7600
Date 22/10/2010

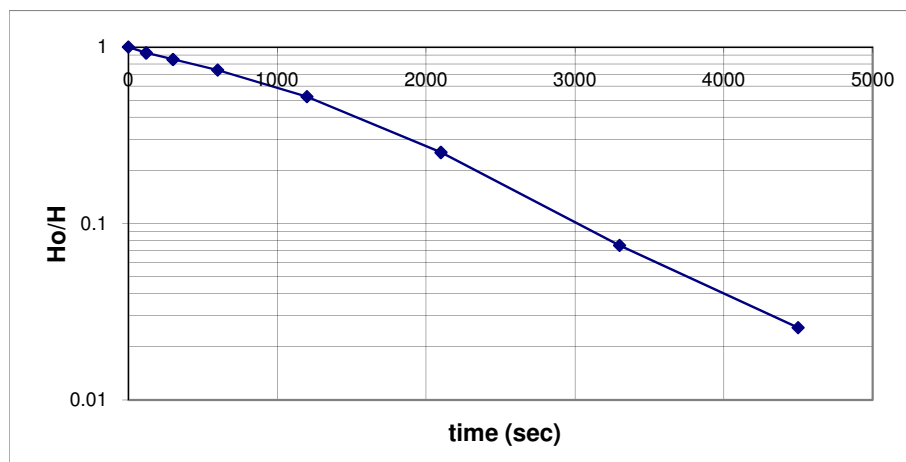
Bore Details

Bore No. BH? (EW3)
Piezometer length (L) 3 m
Piezometer radius (r) 0.025 m
Bore radius (R) 0.1 m
Depth of piezometer 7.74 m
Static water level 1.8 m
Lag time T_o 1700 sec
(37% recovery)

Test Method Rising Head

Results

Time (sec)	Depth to water (m)	Change in level (m)	H / H_o
Static	1.8		
0	7.27	-5.47	1
120	6.86	-5.06	0.9250457
300	6.45	-4.65	0.8500914
600	5.85	-4.05	0.7404022
1200	4.66	-2.86	0.5228519
2100	3.18	-1.38	0.2522852
3300	2.21	-0.41	0.0749543
4500	1.94	-0.14	0.0255941



Based on Hvorslev method

$$K = \frac{r^2 \ln(L/R)}{2LT_o}$$

Calculated Permeability

2.1E-07 m / sec

ROBERT CARR & ASSOCIATES PTY LTD
Geotechnical and Environmental

Form F - Log - 006

PIEZOMETER TEST

Client PIA
Project Environmental Assessment

Job No. 7600
Date 22/10/2010

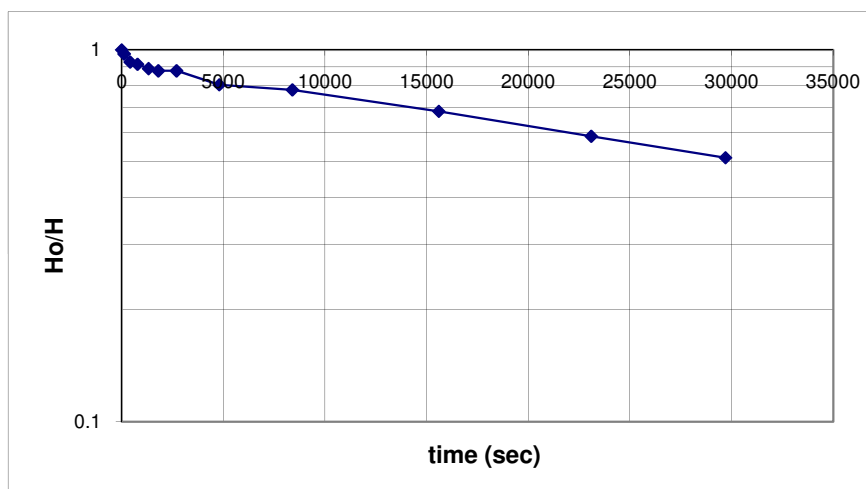
Bore Details

Bore No. BH10 (EW1)
Piezometer length (L) 3 m
Piezometer radius (r) 0.025 m
Bore radius (R) 0.1 m
Depth of piezometer 10.33 m
Static water level 9.86 m
Lag time T_o 45900 sec
(37% recovery)

Test Method Rising Head

Results

Time (sec)	Depth to water (m)	Change in level (m)	H / H_o
Static	9.86		
0	10.27	-0.41	1
120	10.26	-0.4	0.9756098
420	10.24	-0.38	0.9268293
780	10.235	-0.375	0.9146341
1320	10.225	-0.365	0.8902439
1800	10.22	-0.36	0.8780488
2700	10.22	-0.36	0.8780488
4800	10.19	-0.33	0.804878
8400	10.18	-0.32	0.7804878
15600	10.14	-0.28	0.6829268
23100	10.1	-0.24	0.5853659
29700	10.07	-0.21	0.5121951



Based on Hvorslev method

$$K = \frac{r^2 \ln(L/R)}{2LT_o}$$

Calculated Permeability

7.7E-09 m / sec

Form F - Log - 006

ROBERT CARR & ASSOCIATES PTY LTD
Geotechnical and Environmental

Appendix E

Laboratory Report Sheets

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No: E050669
Client Name: Robert Carr and Associates Pty Ltd
Client Reference: Prospect
Contact Name: Matt Clark
Chain of Custody No: na
Sample Matrix: SOIL & WATER

Cover Page 1 of 4
 plus Sample Results

Date Received: 26/10/2010
 Date Reported: 29/10/2010

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

QUALITY ASSURANCE CRITERIA

Accuracy: matrix spike: 1 in first 5-20, then 1 every 20 samples
 lcs, crm, method: 1 per analytical batch
 surrogate spike: addition per target organic method

Precision: laboratory duplicate: 1 in first 5-10, then 1 every 10 samples

laboratory triplicate: re-extracted & reported when duplicate RPD values exceed acceptance criteria

Holding Times: soils, waters: Refer to LabMark Preservation & THT table
 VOC's 14 days water / soil
 VAC's 7 days water or 14 days acidified
 VAC's 14 days soil
 SVOC's 7 days water, 14 days soil
 Pesticides 7 days water, 14 days soil
 Metals 6 months general elements
 Mercury 28 days

Confirmation: target organic analysis: GC/MS, or confirmatory column

Sensitivity: EQL: Typically 2-5 x Method Detection Limit (MDL)

RESULT ANNOTATION

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

QUALITY CONTROL

GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy: spike, lcs, crm general analytes 70% - 130% recovery
 surrogate: phenol analytes 50% - 130% recovery
 organophosphorous pesticide analytes 60% - 130% recovery
 phenoxy acid herbicides, organotin 50% - 130% recovery

anion/cation bal: +/- 10% (0-3 meq/l),
 +/- 5% (>3 meq/l)
Precision: method blank: not detected >95% of the reported EQL
 duplicate lab 0-30% (>10xEQL), 0-75% (5-10xEQL)
 RPD (metals): 0-100% (<5xEQL)
 duplicate lab 0-50% (>10xEQL), 0-75% (5-10xEQL)
 RPD: 0-100% (<5xEQL)

QUALITY CONTROL

ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy: spike, lcs, crm analyte specific recovery data
 surrogate: <3xsd of historical mean

Uncertainty: spike, lcs: measurement calculated from historical analyte specific control charts

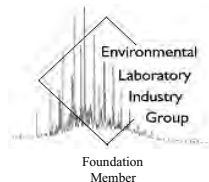


Laura Schofield
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Laura Schofield
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Ryan Hamilton
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Laboratory Report: E050669

Cover Page 2 of 4

NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

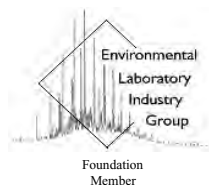
- A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.
- B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.
- C. Laboratory QA/QC samples are specific to this project.
- D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.
- E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.
- F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.
- G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomalous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.
- H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.
- I. LabMark shall maintain an official copy of this Certificate of Analysis for all traceable reference purposes.

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

- A. SRN issued to client upon sample receipt & login verification.
- B. Preservation & sampling date details specified on COC and SRN, unless noted.
- C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

- A. NATA accreditation held for each in-house method and sample matrix type reported, unless noted below (Refer to subcontracted test reports for NATA accreditation status).
- B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 1645.
- C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.



Laboratory Report: E050669

Cover Page 3 of 4

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

Matrix: **SOIL**

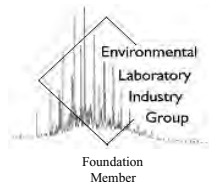
Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	70	8	11%	0	4	6%
1	Volatile TPH by P&T (vTPH)	70	8	11%	0	4	6%
13	Petroleum Hydrocarbons (TPH)	70	8	11%	0	4	6%
25	Polycyclic Aromatic Hydrocarbons (PAH)	28	3	11%	0	2	7%
29	Organochlorine Pesticides (OC)	28	3	11%	0	2	7%
33	Organophosphorus Pesticides (OP)	28	3	11%	0	2	7%
38	Acid extractable metals (M7)	70	8	11%	8	4	6%
49	Acid extractable metals - mercury	70	8	11%	8	4	6%
57	Moisture	70	--	--	--	--	--

Matrix: **WATER**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
11	BTEX by P&T	7	1	14%	0	1	14%
11	Volatile TPH by P&T (vTPH)	7	1	14%	0	1	14%
23	Petroleum Hydrocarbons (TPH)	7	1	14%	0	1	14%
37	Polynuclear Aromatic Hydrocarbons	7	1	14%	0	1	14%
54	Filtered metals (M7)	7	1	14%	0	1	14%
56	Filtered mercury	7	1	14%	0	1	14%

GLOSSARY:

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



Laboratory Report: E050669

Cover Page 4 of 4

5. ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

- A. All tests were conducted by mgt LabMark Environmental Sydney, NATA accreditation No. 13542, unless indicated below.
- B. Please note spike and spike duplicate recovery for Copper in sample 281126 is at 45% and 204% respectively. Corresponding LCS is 96%.
- C. Please note spike and spike duplicate recovery for Copper in sample 281136 is at 66% and 134% respectively. Corresponding LCS is 96%.
- D. Please note spike and spike duplicate recovery for Arsenic in sample 281180 is at 44% and 52% respectively. Corresponding LCS is 92%.
- E. Please note spike and spike duplicate recovery for Chromium in sample 281180 is at 34% and 37% respectively. Corresponding LCS is 98%.
- F. Please note spike and spike duplicate recovery for Copper in sample 281180 is at 10% and 25% respectively. Corresponding LCS is 96%.
- G. Please note spike and spike duplicate recovery for Lead in sample 281180 is 0% and 0% respectively. Corresponding LCS is 103%.
- H. Please note spike and spike duplicate recovery for Lead in sample 281192 is 67% and 53% respectively. Corresponding LCS is 92%.
- I. Please note sample #281125 reported RPD of 5% - 50% for M7. Triplicate sample issued.
- J. Please note sample #281135 reported RPD of 0% - 32% for M7. Triplicate sample issued.
- K. Please note sample #281145 reported RPD of 0% - 133% for M7. Triplicate sample issued.
- L. Please note sample #281151 reported RPD of 33% - 50% for M7. Triplicate sample issued.
- M. Please note sample #281157 reported RPD of 22% - 40% for M7. Triplicate sample issued.
- N. Please note sample #281168 reported RPD of 13% - 120% for M7. Triplicate sample issued.
- O. Please note sample #281179 reported RPD of 0% - 32% for M7. Triplicate sample issued.

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

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Client Name: Robert Carr and Associates Pty Ltd

Contact Name: Matt Clark

Client Reference: Prospect 7600

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Laboratory Identification		281125	281126	281127	281128	281129	281130	281131	281132	281133	281134
Sample Identification		TP 1a	TP 1b	TP 2a	TP 2b	TP 3a	TP 3b	TP 4a	TP 4b	TP 5a	TP 5b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E029.2/E016.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
CDFB (Surr @ 4 mg/kg)	--	91%	96%	90%	93%	90%	94%	88%	82%	104%	84%
Method : E029.2/E016.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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

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Laboratory Identification		281135	281136	281137	281138	281139	281140	281141	281142	281143	281144
Sample Identification		TP 6a	TP 6b	TP 7a	TP 7b	TP 8a	TP 8b	TP 9a	TP 9b	TP 10a	TP 10b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	19/10/10	19/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E029.2/E016.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
CDFB (Surr @ 4 mg/kg)	--	98%	97%	95%	95%	95%	92%	90%	94%	93%	91%
Method : E029.2/E016.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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

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Contact Name: Matt Clark

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Laboratory Identification		281145	281146	281147	281148	281149	281150	281151	281152	281153	281154
Sample Identification		TP 11a	TP 11b	TP 12a	TP 12b	TP 13a	TP 13b	TP 14a	TP 14b	TP 15a	TP 15b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	20/10/10	20/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E029.2/E016.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
CDFB (Surr @ 4 mg/kg)	--	96%	93%	92%	89%	101%	91%	96%	97%	86%	106%
Method : E029.2/E016.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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

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Contact Name: Matt Clark

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Laboratory Identification		281155	281156	281157	281158	281159	281160	281161	281162	281163	281164
Sample Identification		TP 17a	TP 17b	TP 18a	TP 18b	TP 19a	TP 19b	TP 20a	TP 20b	TP 21a	TP 21b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10	29/10/10	29/10/10	29/10/10	29/10/10	27/10/10	27/10/10
Method : E029.2/E016.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
CDFB (Surr @ 4 mg/kg)	--	102%	94%	94%	97%	79%	108%	92%	97%	96%	97%
Method : E029.2/E016.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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

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Laboratory Identification		281165	281166	281167	281168	281169	281170	281171	281172	281173	281174
Sample Identification		TP 22a	TP 22b	TP 23a	TP 23b	TP 24a	TP 24b	ES1	ES2	ES3	ES4
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	21/10/10	21/10/10	21/10/10	21/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E029.2/E016.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
CDFB (Surr @ 4 mg/kg)	--	101%	94%	101%	101%	101%	98%	103%	100%	97%	100%
Method : E029.2/E016.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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

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Contact Name: Matt Clark

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Laboratory Identification		281175	281176	281177	281178	281179	281180	281181	281182	281183	281184
Sample Identification		ES5	ES6	ES7	ES8	ES9	ES10	ES11	ES12	ES13	ES14
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		21/10/10	21/10/10	21/10/10	21/10/10	21/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E029.2/E016.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
CDFB (Surr @ 4 mg/kg)	--	97%	99%	100%	98%	97%	99%	97%	102%	101%	100%
Method : E029.2/E016.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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

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Laboratory Identification		281185	281186	281188	281189	281190	281191	281192	281193	281194	281195
Sample Identification		ES15	ES16	QB1	QB2	QB3	QB4	QA1	QA3	QA5	QA7
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		22/10/10	22/10/10	18/10/10	19/10/10	20/10/10	21/10/10	20/10/10	20/10/10	20/10/10	22/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E029.2/E016.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
CDFB (Surr @ 4 mg/kg)	--	100%	98%	102%	101%	100%	98%	98%	100%	99%	101%
Method : E029.2/E016.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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

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Contact Name: Matt Clark

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Laboratory Identification		281125d	281125r	281135d	281135r	281145d	281145r	281151d	281151r	281157d	281157r
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		26/10/10	--	26/10/10	--	26/10/10	--	27/10/10	--	27/10/10	--
Laboratory Analysis Date		27/10/10	--	28/10/10	--	28/10/10	--	28/10/10	--	28/10/10	--
Method : E029.2/E016.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--
Toluene	0.5	<0.5	--	<0.5	--	<0.5	--	<0.5	--	<0.5	--
Ethylbenzene	0.5	<0.5	--	<0.5	--	<0.5	--	<0.5	--	<0.5	--
meta- and para-Xylene	1	<1	--	<1	--	<1	--	<1	--	<1	--
ortho-Xylene	0.5	<0.5	--	<0.5	--	<0.5	--	<0.5	--	<0.5	--
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
CDFB (Surr @ 4 mg/kg)	--	90%	1%	87%	12%	89%	8%	96%	0%	94%	0%
Method : E029.2/E016.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	--	<10	--	<10	--	<10	--	<10	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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

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Client Name: Robert Carr and Associates Pty Ltd

Contact Name: Matt Clark

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Laboratory Identification		281168d	281168r	281179d	281179r	281191d	281191r	281126s	281136s	281180s	281192s
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		27/10/10	--	27/10/10	--	27/10/10	--	26/10/10	26/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	--	27/10/10	--	28/10/10	--	27/10/10	28/10/10	27/10/10	28/10/10
Method : E029.2/E016.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	--	<0.2	--	<0.2	--	83%	89%	78%	79%
Toluene	0.5	<0.5	--	<0.5	--	<0.5	--	86%	92%	85%	86%
Ethylbenzene	0.5	<0.5	--	<0.5	--	<0.5	--	84%	89%	78%	78%
meta- and para-Xylene	1	<1	--	<1	--	<1	--	87%	92%	84%	85%
ortho-Xylene	0.5	<0.5	--	<0.5	--	<0.5	--	87%	93%	85%	85%
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
CDFB (Surr @ 4 mg/kg)	--	97%	4%	99%	2%	99%	1%	93%	95%	99%	96%
Method : E029.2/E016.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	--	<10	--	<10	--	78%	83%	74%	75%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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

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Contact Name: Matt Clark
Client Reference: Prospect 7600

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Laboratory Identification		lcs	lcs	mb	mb						
Sample Identification		QC	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		--	--	--	--						
Laboratory Extraction (Preparation) Date		26/10/10	27/10/10	26/10/10	27/10/10						
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10						
Method : E029.2/E016.2											
BTEX by P&T		EQL									
Benzene	0.2	91%	91%	<0.2	<0.2						
Toluene	0.5	96%	96%	<0.5	<0.5						
Ethylbenzene	0.5	87%	88%	<0.5	<0.5						
meta- and para-Xylene	1	94%	95%	<1	<1						
ortho-Xylene	0.5	96%	97%	<0.5	<0.5						
Total Xylene	--	--	--	--	--						
CDFB (Surr @ 4 mg/kg)	--	96%	98%	99%	99%						
Method : E029.2/E016.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	87%	86%	<10	<10						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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

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Laboratory Identification		281196	281197	281198	281199	281200	281201	281202	281196d	281196r	281197s
Sample Identification		EW1	EW2	EW3	EW4	EW5	QB1	QA1	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	--	--	--
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	--	26/10/10
Laboratory Analysis Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	--	27/10/10
Method : E029.1/E016.1											
BTEX by P&T		EQL									
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	--	99%
Toluene	1	<1	<1	<1	<1	<1	<1	<1	<1	--	101%
Ethylbenzene	1	<1	<1	<1	<1	<1	<1	<1	<1	--	92%
meta- & para-Xylene	2	<2	<2	<2	<2	<2	<2	<2	<2	--	99%
ortho-Xylene	1	<1	<1	<1	<1	<1	<1	<1	<1	--	107%
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
4-BFB (Surr @ 50ug/l)	--	95%	101%	101%	101%	100%	101%	102%	97%	2%	101%
Method : E029.1/E016.1											
Volatile TPH by P&T (vTPH)		EQL									
C6-C9	50	<50	<50	<50	<50	<50	<50	<50	<50	--	92%

Results expressed in ug/l unless otherwise specified

Comments:

E029.1/E016.1: Direct injection into P&T/GC/FID/MSD.

E029.1/E016.1: Direct injection into P&T/GC/MSD.

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Laboratory Identification		lcs	mb								
Sample Identification		QC	QC								
Depth (m)		--	--								
Sampling Date recorded on COC		--	--								
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10								
Laboratory Analysis Date		27/10/10	27/10/10								
Method : E029.1/E016.1											
BTEX by P&T		EQL									
Benzene	1	100%	<1								
Toluene	1	102%	<1								
Ethylbenzene	1	93%	<1								
meta- & para-Xylene	2	100%	<2								
ortho-Xylene	1	107%	<1								
Total Xylene	--	--	--								
4-BFB (Surr @ 50ug/l)	--	99%	93%								
Method : E029.1/E016.1											
Volatile TPH by P&T (vTPH)		EQL									
C6-C9	50	105%	<50								

Results expressed in ug/l unless otherwise specified

Comments:

E029.1/E016.1: Direct injection into P&T/GC/FID/MSD.

E029.1/E016.1: Direct injection into P&T/GC/MSD.

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Laboratory Identification		281125	281126	281127	281128	281129	281130	281131	281132	281133	281134
Sample Identification		TP 1a	TP 1b	TP 2a	TP 2b	TP 3a	TP 3b	TP 4a	TP 4b	TP 5a	TP 5b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E006.2											
Petroleum Hydrocarbons (TPH)		EQL									
C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29 - C36 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum of TPH C10 - C36	--	--	--	--	--	--	--	--	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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Laboratory Identification		281135	281136	281137	281138	281139	281140	281141	281142	281143	281144
Sample Identification		TP 6a	TP 6b	TP 7a	TP 7b	TP 8a	TP 8b	TP 9a	TP 9b	TP 10a	TP 10b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	19/10/10	19/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E006.2											
Petroleum Hydrocarbons (TPH)	EQL										
C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29 - C36 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum of TPH C10 - C36	--	--	--	--	--	--	--	--	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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Laboratory Identification		281145	281146	281147	281148	281149	281150	281151	281152	281153	281154
Sample Identification		TP 11a	TP 11b	TP 12a	TP 12b	TP 13a	TP 13b	TP 14a	TP 14b	TP 15a	TP 15b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	20/10/10	20/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E006.2											
Petroleum Hydrocarbons (TPH)	EQL										
C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29 - C36 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum of TPH C10 - C36	--	--	--	--	--	--	--	--	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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Laboratory Identification		281155	281156	281157	281158	281159	281160	281161	281162	281163	281164
Sample Identification		TP 17a	TP 17b	TP 18a	TP 18b	TP 19a	TP 19b	TP 20a	TP 20b	TP 21a	TP 21b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E006.2											
Petroleum Hydrocarbons (TPH)		EQL									
C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29 - C36 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum of TPH C10 - C36	--	--	--	--	--	--	--	--	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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Laboratory Identification		281165	281166	281167	281168	281169	281170	281171	281172	281173	281174
Sample Identification		TP 22a	TP 22b	TP 23a	TP 23b	TP 24a	TP 24b	ES1	ES2	ES3	ES4
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	21/10/10	21/10/10	21/10/10	21/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E006.2											
Petroleum Hydrocarbons (TPH)	EQL										
C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	230	<100	<100	<100
C29 - C36 Fraction	100	<100	<100	<100	<100	<100	<100	270	100	<100	<100
Sum of TPH C10 - C36	--	--	--	--	--	--	--	500	100	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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Laboratory Identification		281175	281176	281177	281178	281179	281180	281181	281182	281183	281184
Sample Identification		ES5	ES6	ES7	ES8	ES9	ES10	ES11	ES12	ES13	ES14
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		21/10/10	21/10/10	21/10/10	21/10/10	21/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E006.2											
Petroleum Hydrocarbons (TPH)	EQL										
C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29 - C36 Fraction	100	<100	140	<100	<100	160	120	<100	<100	<100	130
Sum of TPH C10 - C36	--	--	140	--	--	160	120	--	--	--	130

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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Laboratory Identification		281185	281186	281188	281189	281190	281191	281192	281193	281194	281195
Sample Identification		ES15	ES16	QB1	QB2	QB3	QB4	QA1	QA3	QA5	QA7
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		22/10/10	22/10/10	18/10/10	19/10/10	20/10/10	21/10/10	20/10/10	20/10/10	20/10/10	22/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E006.2											
Petroleum Hydrocarbons (TPH)	EQL										
C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29 - C36 Fraction	100	100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum of TPH C10 - C36	--	100	--	--	--	--	--	--	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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Laboratory Identification		281125d	281125r	281135d	281135r	281145d	281145r	281151d	281151r	281157d	281157r
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		26/10/10	--	26/10/10	--	26/10/10	--	27/10/10	--	27/10/10	--
Laboratory Analysis Date		27/10/10	--	27/10/10	--	27/10/10	--	27/10/10	--	27/10/10	--
Method : E006.2											
Petroleum Hydrocarbons (TPH)	EQL										
C10 - C14 Fraction	50	<50	--	<50	--	<50	--	<50	--	<50	--
C15 - C28 Fraction	100	<100	--	<100	--	<100	--	<100	--	<100	--
C29 - C36 Fraction	100	<100	--	<100	--	<100	--	<100	--	<100	--
Sum of TPH C10 - C36	--	--	--	--	--	--	--	--	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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Laboratory Identification		281168d	281168r	281179d	281179r	281191d	281191r	281126s	281136s	281180s	281192s
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		27/10/10	--	27/10/10	--	27/10/10	--	26/10/10	26/10/10	27/10/10	27/10/10
Laboratory Analysis Date		28/10/10	--	27/10/10	--	28/10/10	--	27/10/10	27/10/10	27/10/10	28/10/10
Method : E006.2											
Petroleum Hydrocarbons (TPH)	EQL										
C10 - C14 Fraction	50	<50	--	<50	--	<50	--	--	--	--	--
C15 - C28 Fraction	100	<100	--	<100	--	<100	--	94%	101%	98%	73%
C29 - C36 Fraction	100	<100	--	140	13%	<100	--	--	--	--	--
Sum of TPH C10 - C36	--	--	--	140	13%	--	--	--	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

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Contact Name: Matt Clark
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Laboratory Identification		lcs	lcs	mb	mb						
Sample Identification		QC	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		--	--	--	--						
Laboratory Extraction (Preparation) Date		26/10/10	27/10/10	26/10/10	27/10/10						
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10						
Method : E006.2											
Petroleum Hydrocarbons (TPH)		EQL									
C10 - C14 Fraction	50	--	--	<50	<50						
C15 - C28 Fraction	100	94%	95%	<100	<100						
C29 - C36 Fraction	100	--	--	<100	<100						
Sum of TPH C10 - C36	--	--	--	--	--						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

Laboratory Report No: E050669

Client Name: Robert Carr and Associates Pty Ltd

Contact Name: Matt Clark

Client Reference: Prospect 7600

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plus cover page

Date: 29/10/10

This report supercedes reports issued on: N/A

Final

Certificate
of Analysis

Laboratory Identification		281196	281197	281198	281199	281200	281201	281202	281196d	281196r	281198s
Sample Identification		EW1	EW2	EW3	EW4	EW5	QB1	QA1	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	--	--	--
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	--	27/10/10
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	--	28/10/10
Method : E004.1											
Petroleum Hydrocarbons (TPH)	EQL										
C10-C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	--	--
C15-C28 Fraction	200	3440	250	<200	<200	<200	<200	<200	3800	10%	81%
C29-C36 Fraction	50	3460	70	<50	<50	<50	<50	<50	3720	7%	--
Sum of TPH C10 - C36	--	6900	320	--	--	--	--	--	7520	9%	--

Results expressed in ug/l unless otherwise specified

Comments:

E004.1: Triple extraction with DCM. Analysis by GC/FID.

Laboratory Report No: E050669

Client Name: Robert Carr and Associates Pty Ltd

Contact Name: Matt Clark

Client Reference: Prospect 7600

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Date: 29/10/10

This report supercedes reports issued on: N/A

Final

Certificate
of Analysis

Laboratory Identification		lcs	mb								
Sample Identification		QC	QC								
Depth (m)		--	--								
Sampling Date recorded on COC		--	--								
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10								
Laboratory Analysis Date		27/10/10	27/10/10								
Method : E004.1											
Petroleum Hydrocarbons (TPH)		EQL									
C10-C14 Fraction	50	--	<50								
C15-C28 Fraction	200	91%	<200								
C29-C36 Fraction	50	--	<50								
Sum of TPH C10 - C36	--	--	--								

Results expressed in ug/l unless otherwise specified

Comments:

E004.1: Triple extraction with DCM. Analysis by GC/FID.

Laboratory Report No: E050669
Client Name: Robert Carr and Associates Pty Ltd
Contact Name: Matt Clark
Client Reference: Prospect 7600

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Date: 29/10/10

Final
Certificate
of Analysis

This report supercedes reports issued on: N/A

Laboratory Identification		281131	281139	281141	281142	281145	281171	281172	281173	281174	281175
Sample Identification		TP 4a	TP 8a	TP 9a	TP 9b	TP 11a	ES1	ES2	ES3	ES4	ES5
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		18/10/10	18/10/10	18/10/10	18/10/10	19/10/10	21/10/10	21/10/10	21/10/10	21/10/10	21/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	EQL										
Naphthalene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b)&(k)fluoranthene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a) pyrene	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	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of reported PAHs	--	--	--	--	--	--	--	--	--	--	--
2-FBP (Surr @ 5mg/kg)	--	89%	107%	111%	103%	109%	112%	88%	83%	90%	91%
TP-d14 (Surr @ 5mg/kg)	--	91%	105%	113%	108%	111%	111%	90%	79%	86%	94%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

Laboratory Identification		281176	281177	281178	281179	281180	281181	281182	281183	281184	281185
Sample Identification		ES6	ES7	ES8	ES9	ES10	ES11	ES12	ES13	ES14	ES15
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		21/10/10	21/10/10	21/10/10	21/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	EQL										
Naphthalene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b)&(k)fluoranthene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a) pyrene	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	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of reported PAHs	--	--	--	--	--	--	--	--	--	--	--
2-FBP (Surr @ 5mg/kg)	--	89%	91%	92%	86%	100%	94%	96%	87%	92%	86%
TP-d14 (Surr @ 5mg/kg)	--	88%	94%	95%	86%	96%	91%	89%	90%	92%	86%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

Laboratory Identification		281186	281188	281189	281190	281191	281192	281193	281194	281145d	281145r
Sample Identification		ES16	QB1	QB2	QB3	QB4	QA1	QA3	QA5	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		22/10/10	18/10/10	19/10/10	20/10/10	21/10/10	20/10/10	20/10/10	20/10/10	--	--
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	26/10/10	--
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	27/10/10	--
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	EQL										
Naphthalene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Acenaphthylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Acenaphthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Fluorene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Phenanthrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Fluoranthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Benz(a)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Chrysene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Benzo(b)&(k)fluoranthene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
Benzo(a) pyrene	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	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Benzo(g,h,i)perylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Sum of reported PAHs	--	--	--	--	--	--	--	--	--	--	--
2-FBP (Surr @ 5mg/kg)	--	87%	90%	85%	85%	83%	86%	87%	88%	102%	7%
TP-d14 (Surr @ 5mg/kg)	--	86%	92%	85%	83%	85%	85%	86%	89%	109%	2%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

Laboratory Identification		281179d	281179r	281191d	281191r	281180s	281192s	lcs	lcs	mb	mb
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		27/10/10	--	27/10/10	--	27/10/10	27/10/10	26/10/10	27/10/10	26/10/10	27/10/10
Laboratory Analysis Date		28/10/10	--	28/10/10	--	28/10/10	28/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	EQL										
Naphthalene	0.5	<0.5	--	<0.5	--	83%	94%	102%	101%	<0.5	<0.5
Acenaphthylene	0.5	<0.5	--	<0.5	--	88%	91%	103%	99%	<0.5	<0.5
Acenaphthene	0.5	<0.5	--	<0.5	--	91%	99%	101%	104%	<0.5	<0.5
Fluorene	0.5	<0.5	--	<0.5	--	92%	97%	103%	103%	<0.5	<0.5
Phenanthrene	0.5	<0.5	--	<0.5	--	86%	96%	104%	105%	<0.5	<0.5
Anthracene	0.5	<0.5	--	<0.5	--	86%	96%	103%	104%	<0.5	<0.5
Fluoranthene	0.5	<0.5	--	<0.5	--	85%	92%	100%	100%	<0.5	<0.5
Pyrene	0.5	<0.5	--	<0.5	--	85%	92%	94%	103%	<0.5	<0.5
Benz(a)anthracene	0.5	<0.5	--	<0.5	--	84%	90%	98%	98%	<0.5	<0.5
Chrysene	0.5	<0.5	--	<0.5	--	83%	92%	97%	104%	<0.5	<0.5
Benzo(b)&(k)fluoranthene	1	<1	--	<1	--	82%	92%	95%	100%	<1	<1
Benzo(a) pyrene	0.5	<0.5	--	<0.5	--	79%	89%	87%	94%	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	--	<0.5	--	83%	88%	78%	99%	<0.5	<0.5
Dibenz(a,h)anthracene	0.5	<0.5	--	<0.5	--	84%	88%	81%	100%	<0.5	<0.5
Benzo(g,h,i)perylene	0.5	<0.5	--	<0.5	--	80%	84%	70%	96%	<0.5	<0.5
Sum of reported PAHs	--	--	--	--	--	--	--	--	--	--	--
2-FBP (Surr @ 5mg/kg)	--	105%	20%	88%	6%	77%	86%	89%	91%	80%	94%
TP-d14 (Surr @ 5mg/kg)	--	99%	14%	84%	1%	79%	90%	94%	94%	86%	94%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

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

Laboratory Identification		281131	281139	281141	281142	281145	281171	281172	281173	281174	281175
Sample Identification		TP 4a	TP 8a	TP 9a	TP 9b	TP 11a	ES1	ES2	ES3	ES4	ES5
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		18/10/10	18/10/10	18/10/10	18/10/10	19/10/10	21/10/10	21/10/10	21/10/10	21/10/10	21/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E013.2											
Organochlorine Pesticides (OC)	EQL										
a-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
b-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
g-BHC (Lindane)	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
d-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
trans-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan I	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDE	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	0.17	<0.05
Endrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan II	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDD	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulphate	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDT	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
DBC (Surr @ 0.2mg/kg)	--	88%	93%	97%	88%	93%	96%	87%	70%	79%	89%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/dual ECD.

Laboratory Identification		281176	281177	281178	281179	281180	281181	281182	281183	281184	281185
Sample Identification		ES6	ES7	ES8	ES9	ES10	ES11	ES12	ES13	ES14	ES15
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		21/10/10	21/10/10	21/10/10	21/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E013.2											
Organochlorine Pesticides (OC)	EQL										
a-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
b-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
g-BHC (Lindane)	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
d-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
trans-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan I	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDE	0.05	<0.05	<0.05	<0.05	<0.05	0.18	0.58	0.05	<0.05	0.90	0.41
Endrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan II	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDD	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulphate	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDT	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	0.2	<0.2
Methoxychlor	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
DBC (Surr @ 0.2mg/kg)	--	98%	98%	87%	82%	89%	91%	92%	92%	71%	83%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/dual ECD.

Laboratory Report No: E050669
Client Name: Robert Carr and Associates Pty Ltd
Contact Name: Matt Clark
Client Reference: Prospect 7600

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This report supercedes reports issued on: N/A

Laboratory Identification		281186	281188	281189	281190	281191	281192	281193	281194	281145d	281145r
Sample Identification		ES16	QB1	QB2	QB3	QB4	QA1	QA3	QA5	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		22/10/10	18/10/10	19/10/10	20/10/10	21/10/10	20/10/10	20/10/10	20/10/10	--	--
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	26/10/10	--
Laboratory Analysis Date		27/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	27/10/10	--
Method : E013.2											
Organochlorine Pesticides (OC)	EQL										
a-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
Hexachlorobenzene	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
b-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
g-BHC (Lindane)	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
d-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
Heptachlor	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
Aldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
Heptachlor epoxide	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
trans-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
Endosulfan I	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
cis-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
Dieldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
4,4-DDE	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
Endrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
Endosulfan II	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
4,4-DDD	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
Endosulfan sulphate	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--
4,4-DDT	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--
Methoxychlor	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--
DBC (Surr @ 0.2mg/kg)	--	90%	97%	92%	93%	93%	90%	91%	88%	93%	0%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/dual ECD.

Laboratory Identification		281179d	281179r	281191d	281191r	281180s	281192s	lcs	lcs	mb	mb
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		27/10/10	--	27/10/10	--	27/10/10	27/10/10	26/10/10	27/10/10	26/10/10	27/10/10
Laboratory Analysis Date		27/10/10	--	28/10/10	--	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E013.2											
Organochlorine Pesticides (OC)	EQL										
a-BHC	0.05	<0.05	--	<0.05	--	114%	110%	116%	115%	<0.05	<0.05
Hexachlorobenzene	0.05	<0.05	--	<0.05	--	115%	108%	114%	99%	<0.05	<0.05
b-BHC	0.05	<0.05	--	<0.05	--	102%	107%	112%	97%	<0.05	<0.05
g-BHC (Lindane)	0.05	<0.05	--	<0.05	--	107%	111%	116%	102%	<0.05	<0.05
d-BHC	0.05	<0.05	--	<0.05	--	111%	116%	130%	106%	<0.05	<0.05
Heptachlor	0.05	<0.05	--	<0.05	--	106%	108%	112%	98%	<0.05	<0.05
Aldrin	0.05	<0.05	--	<0.05	--	104%	108%	111%	99%	<0.05	<0.05
Heptachlor epoxide	0.05	<0.05	--	<0.05	--	104%	107%	111%	98%	<0.05	<0.05
trans-chlordane	0.05	<0.05	--	<0.05	--	105%	109%	111%	99%	<0.05	<0.05
Endosulfan I	0.05	<0.05	--	<0.05	--	107%	115%	116%	101%	<0.05	<0.05
cis-chlordane	0.05	<0.05	--	<0.05	--	105%	114%	113%	100%	<0.05	<0.05
Dieldrin	0.05	<0.05	--	<0.05	--	73%	84%	91%	87%	<0.05	<0.05
4,4-DDE	0.05	<0.05	--	<0.05	--	128%	117%	119%	110%	<0.05	<0.05
Endrin	0.05	<0.05	--	<0.05	--	101%	104%	109%	96%	<0.05	<0.05
Endosulfan II	0.05	<0.05	--	<0.05	--	106%	112%	115%	103%	<0.05	<0.05
4,4-DDD	0.05	<0.05	--	<0.05	--	104%	108%	113%	99%	<0.05	<0.05
Endosulfan sulphate	0.05	<0.05	--	<0.05	--	102%	99%	108%	127%	<0.05	<0.05
4,4-DDT	0.2	<0.2	--	<0.2	--	108%	95%	104%	97%	<0.2	<0.2
Methoxychlor	0.2	<0.2	--	<0.2	--	75%	97%	105%	91%	<0.2	<0.2
DBC (Surr @ 0.2mg/kg)	--	74%	10%	92%	1%	102%	99%	102%	91%	96%	93%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/dual ECD.

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Client Name: Robert Carr and Associates Pty Ltd
Contact Name: Matt Clark
Client Reference: Prospect 7600

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This report supercedes reports issued on: N/A

Laboratory Identification		281131	281139	281141	281142	281145	281171	281172	281173	281174	281175
Sample Identification		TP 4a	TP 8a	TP 9a	TP 9b	TP 11a	ES1	ES2	ES3	ES4	ES5
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		18/10/10	18/10/10	18/10/10	18/10/10	19/10/10	21/10/10	21/10/10	21/10/10	21/10/10	21/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	28/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E014.2											
Organophosphorus Pesticides (OP)	EQL										
Dichlorvos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Mevinphos (Phosdrin)	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Demeton (total)	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethoprop	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Monocrotophos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phorate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Disulfoton	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ronnel	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Stirofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Azinophos methyl	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Coumaphos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TPP (Surr @ 2mg/kg)	--	117%	118%	96%	129%	119%	126%	126%	110%	117%	123%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MSD.

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Contact Name: Matt Clark
Client Reference: Prospect 7600

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of Analysis

This report supercedes reports issued on: N/A

Laboratory Identification		281176	281177	281178	281179	281180	281181	281182	281183	281184	281185
Sample Identification		ES6	ES7	ES8	ES9	ES10	ES11	ES12	ES13	ES14	ES15
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		21/10/10	21/10/10	21/10/10	21/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E014.2											
Organophosphorus Pesticides (OP)	EQL										
Dichlorvos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Mevinphos (Phosdrin)	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Demeton (total)	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethoprop	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Monocrotophos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phorate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Disulfoton	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ronnel	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Stirofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Azinophos methyl	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Coumaphos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TPP (Surr @ 2mg/kg)	--	118%	107%	125%	107%	115%	120%	98%	110%	128%	106%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MSD.

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Client Name: Robert Carr and Associates Pty Ltd
Contact Name: Matt Clark
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Final
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This report supercedes reports issued on: N/A

Laboratory Identification		281186	281188	281189	281190	281191	281192	281193	281194	281145d	281145r
Sample Identification		ES16	QB1	QB2	QB3	QB4	QA1	QA3	QA5	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		22/10/10	18/10/10	19/10/10	20/10/10	21/10/10	20/10/10	20/10/10	20/10/10	--	--
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	26/10/10	--
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	--
Method : E014.2											
Organophosphorus Pesticides (OP)	EQL										
Dichlorvos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Mevinphos (Phosdrin)	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Demeton (total)	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
Ethoprop	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Monocrotophos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Phorate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Dimethoate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Diazinon	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Disulfoton	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Methyl parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Ronnel	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Fenitrothion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Malathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Chlorpyrifos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Fenthion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Stirofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Prothiofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Azinophos methyl	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Coumaphos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
TPP (Surr @ 2mg/kg)	--	118%	103%	119%	122%	113%	129%	116%	108%	126%	6%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MSD.

Laboratory Identification		281179d	281179r	281191d	281191r	281180s	281192s	lcs	lcs	mb	mb
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		27/10/10	--	27/10/10	--	27/10/10	27/10/10	26/10/10	27/10/10	26/10/10	27/10/10
Laboratory Analysis Date		28/10/10	--	28/10/10	--	28/10/10	28/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E014.2											
Organophosphorus Pesticides (OP)	EQL										
Dichlorvos	0.5	<0.5	--	<0.5	--	86%	108%	94%	90%	<0.5	<0.5
Mevinphos (Phosdrin)	0.5	<0.5	--	<0.5	--	90%	99%	104%	95%	<0.5	<0.5
Demeton (total)	1	<1	--	<1	--	95%	110%	97%	101%	<1	<1
Ethoprop	0.5	<0.5	--	<0.5	--	93%	104%	95%	94%	<0.5	<0.5
Monocrotophos	0.5	<0.5	--	<0.5	--	111%	83%	101%	99%	<0.5	<0.5
Phorate	0.5	<0.5	--	<0.5	--	99%	98%	102%	101%	<0.5	<0.5
Dimethoate	0.5	<0.5	--	<0.5	--	89%	102%	97%	103%	<0.5	<0.5
Diazinon	0.5	<0.5	--	<0.5	--	97%	118%	109%	103%	<0.5	<0.5
Disulfoton	0.5	<0.5	--	<0.5	--	94%	112%	108%	103%	<0.5	<0.5
Methyl parathion	0.5	<0.5	--	<0.5	--	91%	114%	103%	106%	<0.5	<0.5
Ronnel	0.5	<0.5	--	<0.5	--	97%	115%	105%	108%	<0.5	<0.5
Fenitrothion	0.5	<0.5	--	<0.5	--	96%	120%	110%	112%	<0.5	<0.5
Malathion	0.5	<0.5	--	<0.5	--	100%	119%	104%	109%	<0.5	<0.5
Chlorpyrifos	0.5	<0.5	--	<0.5	--	97%	115%	116%	112%	<0.5	<0.5
Fenthion	0.5	<0.5	--	<0.5	--	97%	115%	115%	113%	<0.5	<0.5
Parathion	0.5	<0.5	--	<0.5	--	93%	119%	114%	114%	<0.5	<0.5
Stirofos	0.5	<0.5	--	<0.5	--	80%	113%	105%	110%	<0.5	<0.5
Prothiofos	0.5	<0.5	--	<0.5	--	89%	115%	102%	110%	<0.5	<0.5
Azinophos methyl	0.5	<0.5	--	<0.5	--	73%	104%	102%	99%	<0.5	<0.5
Coumaphos	0.5	<0.5	--	<0.5	--	94%	108%	119%	100%	<0.5	<0.5
TPP (Surr @ 2mg/kg)	--	101%	6%	98%	14%	89%	111%	106%	110%	127%	93%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MSD.

Laboratory Identification		281196	281197	281198	281199	281200	281201	281202	281196d	281196r	281197s
Sample Identification		EW1	EW2	EW3	EW4	EW5	QB1	QA1	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	--	--	--
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	--	27/10/10
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	--	28/10/10
Method : E007.3											
Polynuclear Aromatic Hydrocarbons	EQL										
Naphthalene	0.1	1.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.2	9%	78%
Acenaphthylene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	87%
Acenaphthene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	76%
Fluorene	0.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8	0%	81%
Phenanthrene	0.1	5.0	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	5.5	10%	76%
Anthracene	0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	0%	74%
Fluoranthene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	78%
Pyrene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	77%
Benz(a)anthracene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	86%
Chrysene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	79%
Benzo(b)&(k)fluoranthene	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	90%
Benzo(a) pyrene	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	81%
Indeno(1,2,3-c,d)pyrene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	74%
Dibenz(a,h)anthracene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	73%
Benzo(g,h,i)perylene	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	75%
Sum of reported PAHs	--	7.2	0.2	--	--	--	--	--	7.8	8%	--
2-FBP (Surr @ 2.5ug/l)	--	71%	88%	88%	86%	93%	89%	92%	85%	18%	86%
TP-d14 (Surr @ 2.5ug/l)	--	72%	75%	81%	78%	78%	82%	81%	79%	9%	72%

Results expressed in ug/l unless otherwise specified

Comments:

E007.3: Triple extraction with DCM. Analysis by GC/MS.

Laboratory Identification		281125	281126	281127	281128	281129	281130	281131	281132	281133	281134
Sample Identification		TP 1a	TP 1b	TP 2a	TP 2b	TP 3a	TP 3b	TP 4a	TP 4b	TP 5a	TP 5b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E022.2											
Acid extractable metals (M7)		EQL									
Arsenic	1	6	5	2	3	6	26	6	10	5	1
Cadmium	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	1	19	12	8	7	12	16	20	22	8	9
Copper	2	18	48	21	21	18	51	21	26	24	35
Nickel	1	13	17	6	4	3	18	8	4	2	11
Lead	2	20	15	10	11	13	16	20	25	10	8
Zinc	5	46	104	35	31	18	96	34	23	17	63

Results expressed in mg/kg dry weight unless otherwise specified

Comments: * Refer to comment in DQO certificate. # Percent recovery not available due to significant background levels of analyte in sample.

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

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Contact Name: Matt Clark

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Laboratory Identification		281135	281136	281137	281138	281139	281140	281141	281142	281143	281144
Sample Identification		TP 6a	TP 6b	TP 7a	TP 7b	TP 8a	TP 8b	TP 9a	TP 9b	TP 10a	TP 10b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	19/10/10	19/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E022.2											
Acid extractable metals (M7)		EQL									
Arsenic	1	5	1	13	8	5	5	7	4	6	3
Cadmium	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	1	9	6	16	12	14	7	21	8	12	13
Copper	2	18	20	14	15	31	23	31	28	21	37
Nickel	1	3	4	7	8	9	5	11	5	4	12
Lead	2	10	5	25	25	8	5	21	12	13	11
Zinc	5	16	24	43	48	48	33	60	35	27	72

Results expressed in mg/kg dry weight unless otherwise specified

Comments: * Refer to comment in DQO certificate. # Percent recovery not available due to significant background levels of analyte in sample.

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

Laboratory Identification		281145	281146	281147	281148	281149	281150	281151	281152	281153	281154
Sample Identification		TP 11a	TP 11b	TP 12a	TP 12b	TP 13a	TP 13b	TP 14a	TP 14b	TP 15a	TP 15b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	20/10/10	20/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E022.2											
Acid extractable metals (M7)		EQL									
Arsenic	1	6	5	9	23	4	<1	5	1	15	5
Cadmium	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	1	15	13	12	18	10	6	16	14	24	10
Copper	2	18	21	19	57	20	16	40	38	26	21
Nickel	1	6	7	13	44	5	6	8	13	10	7
Lead	2	14	14	10	18	12	7	17	13	13	8
Zinc	5	24	33	53	166	25	31	46	69	44	37

Results expressed in mg/kg dry weight unless otherwise specified

Comments: * Refer to comment in DQO certificate. # Percent recovery not available due to significant background levels of analyte in sample.

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

Laboratory Report No: E050669

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Contact Name: Matt Clark

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Laboratory Identification		281155	281156	281157	281158	281159	281160	281161	281162	281163	281164
Sample Identification		TP 17a	TP 17b	TP 18a	TP 18b	TP 19a	TP 19b	TP 20a	TP 20b	TP 21a	TP 21b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E022.2											
Acid extractable metals (M7)		EQL									
Arsenic	1	19	7	9	3	7	5	4	2	4	2
Cadmium	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	1	26	13	30	15	23	19	18	14	21	17
Copper	2	45	28	35	25	33	31	21	21	34	31
Nickel	1	23	17	14	6	21	14	6	10	15	15
Lead	2	24	11	15	8	13	9	13	13	14	13
Zinc	5	89	60	73	33	89	72	30	44	74	78

Results expressed in mg/kg dry weight unless otherwise specified

Comments: * Refer to comment in DQO certificate. # Percent recovery not available due to significant background levels of analyte in sample.

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

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Laboratory Identification		281165	281166	281167	281168	281169	281170	281171	281172	281173	281174
Sample Identification		TP 22a	TP 22b	TP 23a	TP 23b	TP 24a	TP 24b	ES1	ES2	ES3	ES4
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	21/10/10	21/10/10	21/10/10	21/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E022.2											
Acid extractable metals (M7)		EQL									
Arsenic	1	10	4	5	1	10	8	19	9	7	7
Cadmium	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1
Chromium	1	21	13	16	15	15	11	15	16	19	17
Copper	2	32	23	23	39	26	38	27	15	26	26
Nickel	1	10	10	8	15	8	19	9	6	15	5
Lead	2	15	11	11	9	12	10	80	21	37	21
Zinc	5	56	51	37	72	45	93	111	45	51	29

Results expressed in mg/kg dry weight unless otherwise specified

Comments: * Refer to comment in DQO certificate. # Percent recovery not available due to significant background levels of analyte in sample.

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

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Contact Name: Matt Clark

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Laboratory Identification		281175	281176	281177	281178	281179	281180	281181	281182	281183	281184
Sample Identification		ES5	ES6	ES7	ES8	ES9	ES10	ES11	ES12	ES13	ES14
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		21/10/10	21/10/10	21/10/10	21/10/10	21/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E022.2											
Acid extractable metals (M7)		EQL									
Arsenic	1	3	5	4	6	5	13	7	11	11	21
Cadmium	0.1	0.1	<0.1	<0.1	0.3	0.2	0.3	0.2	0.1	0.2	0.2
Chromium	1	16	13	10	18	7	18	16	19	13	16
Copper	2	22	18	25	40	16	27	22	19	17	60
Nickel	1	12	6	15	27	13	7	5	5	7	5
Lead	2	34	26	20	63	22	48	21	22	45	86
Zinc	5	60	40	101	160	74	120	41	40	54	85

Results expressed in mg/kg dry weight unless otherwise specified

Comments: * Refer to comment in DQO certificate. # Percent recovery not available due to significant background levels of analyte in sample.

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

Laboratory Identification		281185	281186	281188	281189	281190	281191	281192	281193	281194	281195
Sample Identification		ES15	ES16	QB1	QB2	QB3	QB4	QA1	QA3	QA5	QA7
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		22/10/10	22/10/10	18/10/10	19/10/10	20/10/10	21/10/10	20/10/10	20/10/10	20/10/10	22/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E022.2											
Acid extractable metals (M7)		EQL									
Arsenic	1	23	5	1	1	1	<1	13	5	4	6
Cadmium	0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
Chromium	1	19	14	4	4	4	3	13	16	15	20
Copper	2	42	28	<2	2	<2	<2	12	45	36	36
Nickel	1	6	12	4	5	4	3	3	5	12	27
Lead	2	70	23	<2	<2	<2	<2	14	11	12	58
Zinc	5	46	94	5	6	5	<5	16	39	62	145

Results expressed in mg/kg dry weight unless otherwise specified

Comments: * Refer to comment in DQO certificate. # Percent recovery not available due to significant background levels of analyte in sample.

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

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Contact Name: Matt Clark

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Laboratory Identification		281125d	281125r	281135d	281135r	281145d	281145r	281151d	281151r	281157d	281157r
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		26/10/10	--	26/10/10	--	26/10/10	--	27/10/10	--	27/10/10	--
Laboratory Analysis Date		27/10/10	--	27/10/10	--	27/10/10	--	27/10/10	--	27/10/10	--
Method : E022.2											
Acid extractable metals (M7)		EQL									
Arsenic	1	7	15%	6	18%	6	0%	3	50%	6	40%
Cadmium	0.1	<0.1	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--
Chromium	1	18	5%	10	11%	15	0%	10	46%	22	31%
Copper	2	30	50%	21	15%	16	12%	26	42%	28	22%
Nickel	1	13	0%	4	29%	6	0%	5	46%	10	33%
Lead	2	26	26%	10	0%	16	13%	12	34%	12	22%
Zinc	5	39	16%	22	32%	25	4%	33	33%	48	41%

Results expressed in mg/kg dry weight unless otherwise specified

Comments: * Refer to comment in DQO certificate. # Percent recovery not available due to significant background levels of analyte in sample.

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

Laboratory Report No: E050669

Client Name: Robert Carr and Associates Pty Ltd

Contact Name: Matt Clark

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Laboratory Identification		281168d	281168r	281179d	281179r	281191d	281191r	281125t	281135t	281145t	281151t
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		27/10/10	--	27/10/10	--	27/10/10	--	26/10/10	26/10/10	26/10/10	27/10/10
Laboratory Analysis Date		27/10/10	--	27/10/10	--	27/10/10	--	27/10/10	27/10/10	27/10/10	27/10/10
Method : E022.2											
Acid extractable metals (M7)		EQL									
Arsenic	1	4	120%	5	0%	<1	--	12	6	7	4
Cadmium	0.1	<0.1	--	0.2	0%	<0.1	--	<0.1	<0.1	<0.1	<0.1
Chromium	1	17	13%	7	0%	3	0%	24	9	24	8
Copper	2	49	23%	18	12%	<2	--	37	20	19	19
Nickel	1	19	24%	18	32%	4	29%	11	3	9	4
Lead	2	12	29%	21	5%	<2	--	38	10	19	9
Zinc	5	118	48%	77	4%	<5	--	38	18	36	22

Results expressed in mg/kg dry weight unless otherwise specified

Comments: * Refer to comment in DQO certificate. # Percent recovery not available due to significant background levels of analyte in sample.

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

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Laboratory Identification		281157t	281168t	281126s	281136s	281180s	281192s	crm	crm	lcs	lcs
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	26/10/10	26/10/10	27/10/10	27/10/10	26/10/10	27/10/10	26/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E022.2											
Acid extractable metals (M7)		EQL									
Arsenic	1	6	4	105%	83%	*44	*67	96%	101%	93%	92%
Cadmium	0.1	<0.1	<0.1	100%	92%	97%	103%	101%	107%	96%	106%
Chromium	1	36	16	86%	95%	*34	89%	103%	116%	91%	98%
Copper	2	31	49	*45	*66	*10	100%	110%	115%	96%	96%
Nickel	1	13	19	96%	92%	75%	92%	95%	104%	96%	101%
Lead	2	13	13	91%	94%	--	96%	100%	103%	102%	103%
Zinc	5	57	114	#	86%	#	100%	105%	115%	94%	100%

Results expressed in mg/kg dry weight unless otherwise specified

Comments: * Refer to comment in DQO certificate. # Percent recovery not available due to significant background levels of analyte in sample.

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

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Laboratory Identification		mb	mb								
Sample Identification		QC	QC								
Depth (m)		--	--								
Sampling Date recorded on COC		--	--								
Laboratory Extraction (Preparation) Date		26/10/10	27/10/10								
Laboratory Analysis Date		27/10/10	27/10/10								
Method : E022.2											
Acid extractable metals (M7)		EQL									
Arsenic	1	<1	<1								
Cadmium	0.1	<0.1	<0.1								
Chromium	1	<1	<1								
Copper	2	<2	<2								
Nickel	1	<1	<1								
Lead	2	<2	<2								
Zinc	5	<5	<5								

Results expressed in mg/kg dry weight unless otherwise specified

Comments: * Refer to comment in DQO certificate. # Percent recovery not available due to significant background levels of analyte in sample.

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

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Laboratory Identification		281125	281126	281127	281128	281129	281130	281131	281132	281133	281134
Sample Identification		TP 1a	TP 1b	TP 2a	TP 2b	TP 3a	TP 3b	TP 4a	TP 4b	TP 5a	TP 5b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	28/10/10	28/10/10
Method : E026.2											
Acid extractable metals - mercury		EQL									
Mercury		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Results expressed in mg/kg dry weight unless otherwise specified

Comments: Results for Trip Spike sample are expressed in % recovery.

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

Laboratory Identification		281135	281136	281137	281138	281139	281140	281141	281142	281143	281144
Sample Identification		TP 6a	TP 6b	TP 7a	TP 7b	TP 8a	TP 8b	TP 9a	TP 9b	TP 10a	TP 10b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	19/10/10	19/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10
Laboratory Analysis Date		28/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10
Method : E026.2											
Acid extractable metals - mercury		EQL									
Mercury		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Results expressed in mg/kg dry weight unless otherwise specified

Comments: Results for Trip Spike sample are expressed in % recovery.

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

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Laboratory Identification		281145	281146	281147	281148	281149	281150	281151	281152	281153	281154
Sample Identification		TP 11a	TP 11b	TP 12a	TP 12b	TP 13a	TP 13b	TP 14a	TP 14b	TP 15a	TP 15b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	20/10/10	20/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10
Method : E026.2											
Acid extractable metals - mercury											
Mercury	EQL 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Results expressed in mg/kg dry weight unless otherwise specified

Comments: Results for Trip Spike sample are expressed in % recovery.

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

Laboratory Identification		281155	281156	281157	281158	281159	281160	281161	281162	281163	281164
Sample Identification		TP 17a	TP 17b	TP 18a	TP 18b	TP 19a	TP 19b	TP 20a	TP 20b	TP 21a	TP 21b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10
Method : E026.2											
Acid extractable metals - mercury											
Mercury	EQL 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Results expressed in mg/kg dry weight unless otherwise specified

Comments: Results for Trip Spike sample are expressed in % recovery.

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

Laboratory Identification		281165	281166	281167	281168	281169	281170	281171	281172	281173	281174
Sample Identification		TP 22a	TP 22b	TP 23a	TP 23b	TP 24a	TP 24b	ES1	ES2	ES3	ES4
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	21/10/10	21/10/10	21/10/10	21/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10
Method : E026.2											
Acid extractable metals - mercury		EQL									
Mercury		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	0.06	<0.05

Results expressed in mg/kg dry weight unless otherwise specified

Comments: Results for Trip Spike sample are expressed in % recovery.

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

Laboratory Identification		281175	281176	281177	281178	281179	281180	281181	281182	281183	281184
Sample Identification		ES5	ES6	ES7	ES8	ES9	ES10	ES11	ES12	ES13	ES14
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		21/10/10	21/10/10	21/10/10	21/10/10	21/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10
Method : E026.2											
Acid extractable metals - mercury		EQL									
Mercury		0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05

Results expressed in mg/kg dry weight unless otherwise specified

Comments: Results for Trip Spike sample are expressed in % recovery.

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

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Laboratory Identification		281185	281186	281188	281189	281190	281191	281192	281193	281194	281195
Sample Identification		ES15	ES16	QB1	QB2	QB3	QB4	QA1	QA3	QA5	QA7
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		22/10/10	22/10/10	18/10/10	19/10/10	20/10/10	21/10/10	20/10/10	20/10/10	20/10/10	22/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10	29/10/10
Method : E026.2											
Acid extractable metals - mercury											
Mercury	EQL 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07

Results expressed in mg/kg dry weight unless otherwise specified

Comments: Results for Trip Spike sample are expressed in % recovery.

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

Laboratory Identification		281125d	281125r	281135d	281135r	281145d	281145r	281151d	281151r	281157d	281157r
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		26/10/10	--	26/10/10	--	26/10/10	--	27/10/10	--	27/10/10	--
Laboratory Analysis Date		27/10/10	--	28/10/10	--	29/10/10	--	28/10/10	--	29/10/10	--
Method : E026.2											
Acid extractable metals - mercury											
Mercury	EQL 0.05	0.05	>0%	<0.05	--	<0.05	--	<0.05	--	<0.05	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments: Results for Trip Spike sample are expressed in % recovery.

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

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Laboratory Identification		281168d	281168r	281179d	281179r	281191d	281191r	281126s	281136s	281180s	281192s
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		27/10/10	--	27/10/10	--	27/10/10	--	26/10/10	26/10/10	27/10/10	27/10/10
Laboratory Analysis Date		29/10/10	--	29/10/10	--	29/10/10	--	27/10/10	29/10/10	29/10/10	29/10/10
Method : E026.2	EQL 0.05	<0.05	--	<0.05	--	<0.05	--	75%	##	88%	84%
Acid extractable metals - mercury											
Mercury											

Results expressed in mg/kg dry weight unless otherwise specified

Comments: Results for Trip Spike sample are expressed in % recovery.

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

Laboratory Identification		crm	crm	lcs	lcs	mb	mb				
Sample Identification		QC	QC	QC	QC	QC	QC				
Depth (m)		--	--	--	--	--	--				
Sampling Date recorded on COC		--	--	--	--	--	--				
Laboratory Extraction (Preparation) Date		26/10/10	27/10/10	26/10/10	27/10/10	26/10/10	27/10/10				
Laboratory Analysis Date		28/10/10	28/10/10	27/10/10	28/10/10	27/10/10	28/10/10				
Method : E026.2											
Acid extractable metals - mercury		EQL									
Mercury		0.05	97%	97%	101%	103%	<0.05	<0.05			

Results expressed in mg/kg dry weight unless otherwise specified

Comments: Results for Trip Spike sample are expressed in % recovery.

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

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Laboratory Identification		281196	281197	281198	281199	281200	281201	281202	281196d	281196r	281197s
Sample Identification		EW1	EW2	EW3	EW4	EW5	QB1	QA1	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	--	--	--
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	--	26/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	--	27/10/10
Method : E022.1											
Filtered metals (M7)	EQL										
Arsenic	1	*<5	*<10	*<10	*<10	*<10	<1	*<10	*<5	--	105%
Cadmium	0.1	<0.1	0.5	0.2	0.2	0.3	<0.1	0.3	0.2	>67%	114%
Chromium	1	<1	*<10	*<10	*<10	*<10	2	*<10	1	>0%	113%
Copper	1	*<10	*<10	*<10	*<10	*<10	4	*<10	*<10	--	102%
Nickel	1	*<10	21	18	14	19	<1	14	*<10	--	107%
Lead	1	<1	1	2	<1	1	<1	<1	<1	--	101%
Zinc	5	<5	28	29	27	33	36	29	<5	--	114%

Results expressed in ug/l unless otherwise specified

Comments: *EQL increased due to matrix interference.

E022.1: Filtered HNO3 preserved sample directly analysed by ICP-MS.

Laboratory Report No: E050669
Client Name: Robert Carr and Associates Pty Ltd
Contact Name: Matt Clark
Client Reference: Prospect 7600

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This report supercedes reports issued on: N/A

Laboratory Identification		lcs	mb								
Sample Identification		QC	QC								
Depth (m)		--	--								
Sampling Date recorded on COC		--	--								
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10								
Laboratory Analysis Date		--	--								
Method : E022.1											
Filtered metals (M7)		EQL									
Arsenic	1	98%	<1								
Cadmium	0.1	109%	<0.1								
Chromium	1	94%	<1								
Copper	1	102%	<1								
Nickel	1	99%	<1								
Lead	1	112%	<1								
Zinc	5	101%	<5								

Results expressed in ug/l unless otherwise specified

Comments: *EQL increased due to matrix interference.

E022.1: Filtered HNO3 preserved sample directly analysed by ICP-MS.

Laboratory Report No: E050669

Client Name: Robert Carr and Associates Pty Ltd

Contact Name: Matt Clark

Client Reference: Prospect 7600

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This report supercedes reports issued on: N/A

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Laboratory Identification		281196	281197	281198	281199	281200	281201	281202	281196d	281196r	281197s
Sample Identification		EW1	EW2	EW3	EW4	EW5	QB1	QA1	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10	--	--	--
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	--	26/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	--	27/10/10
Method : E026.1											
Filtered mercury	EQL										
Mercury	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	101%

Results expressed in ug/l unless otherwise specified

Comments:

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

Laboratory Report No: E050669

Client Name: Robert Carr and Associates Pty Ltd

Contact Name: Matt Clark

Client Reference: Prospect 7600

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Laboratory Identification		281125	281126	281127	281128	281129	281130	281131	281132	281133	281134
Sample Identification		TP 1a	TP 1b	TP 2a	TP 2b	TP 3a	TP 3b	TP 4a	TP 4b	TP 5a	TP 5b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E005.2											
Moisture	EQL										
Moisture	--	21	16	22	23	26	20	21	23	21	16

Results expressed in % w/w unless otherwise specified

Comments:

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

Laboratory Identification		281135	281136	281137	281138	281139	281140	281141	281142	281143	281144
Sample Identification		TP 6a	TP 6b	TP 7a	TP 7b	TP 8a	TP 8b	TP 9a	TP 9b	TP 10a	TP 10b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	18/10/10	19/10/10	19/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10	26/10/10
Laboratory Analysis Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Method : E005.2											
Moisture	EQL										
Moisture	--	25	15	16	17	27	24	24	25	22	18

Results expressed in % w/w unless otherwise specified

Comments:

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

Laboratory Report No: E050669

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Contact Name: Matt Clark

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Laboratory Identification		281145	281146	281147	281148	281149	281150	281151	281152	281153	281154
Sample Identification		TP 11a	TP 11b	TP 12a	TP 12b	TP 13a	TP 13b	TP 14a	TP 14b	TP 15a	TP 15b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	19/10/10	20/10/10	20/10/10
Laboratory Extraction (Preparation) Date		26/10/10	26/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		27/10/10	27/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E005.2											
Moisture	EQL										
Moisture	--	20	22	21	10	19	18	28	14	41	17

Results expressed in % w/w unless otherwise specified

Comments:

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

Laboratory Identification		281155	281156	281157	281158	281159	281160	281161	281162	281163	281164
Sample Identification		TP 17a	TP 17b	TP 18a	TP 18b	TP 19a	TP 19b	TP 20a	TP 20b	TP 21a	TP 21b
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E005.2											
Moisture	EQL										
Moisture	--	20	18	23	18	22	17	20	14	19	15

Results expressed in % w/w unless otherwise specified

Comments:

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

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Client Name: Robert Carr and Associates Pty Ltd

Contact Name: Matt Clark

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Laboratory Identification		281165	281166	281167	281168	281169	281170	281171	281172	281173	281174
Sample Identification		TP 22a	TP 22b	TP 23a	TP 23b	TP 24a	TP 24b	ES1	ES2	ES3	ES4
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	20/10/10	21/10/10	21/10/10	21/10/10	21/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E005.2											
Moisture	EQL										
Moisture	--	20	17	22	17	22	19	13	11	17	17

Results expressed in % w/w unless otherwise specified

Comments:

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

Laboratory Identification		281175	281176	281177	281178	281179	281180	281181	281182	281183	281184
Sample Identification		ES5	ES6	ES7	ES8	ES9	ES10	ES11	ES12	ES13	ES14
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		21/10/10	21/10/10	21/10/10	21/10/10	21/10/10	22/10/10	22/10/10	22/10/10	22/10/10	22/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E005.2											
Moisture	EQL										
Moisture	--	21	14	17	25	30	35	24	25	18	17

Results expressed in % w/w unless otherwise specified

Comments:

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

Laboratory Report No: E050669

Client Name: Robert Carr and Associates Pty Ltd

Contact Name: Matt Clark

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Laboratory Identification		281185	281186	281188	281189	281190	281191	281192	281193	281194	281195
Sample Identification		ES15	ES16	QB1	QB2	QB3	QB4	QA1	QA3	QA5	QA7
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		22/10/10	22/10/10	18/10/10	19/10/10	20/10/10	21/10/10	20/10/10	20/10/10	20/10/10	22/10/10
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10	27/10/10
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10	28/10/10
Method : E005.2											
Moisture	EQL										
Moisture	--	22	24	--	--	17	--	28	17	25	23

Results expressed in % w/w unless otherwise specified

Comments:

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

Laboratory Identification		281125d	281125r	281135d	281135r	281145d	281145r	281151d	281151r	281157d	281157r
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		26/10/10	--	26/10/10	--	26/10/10	--	27/10/10	--	27/10/10	--
Laboratory Analysis Date		27/10/10	--	27/10/10	--	27/10/10	--	28/10/10	--	28/10/10	--
Method : E005.2											
Moisture	EQL										
Moisture	--	24	13%	28	11%	20	0%	19	38%	24	4%

Results expressed in % w/w unless otherwise specified

Comments:

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

Laboratory Report No: E050669

Client Name: Robert Carr and Associates Pty Ltd

Contact Name: Matt Clark

Client Reference: Prospect 7600

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Laboratory Identification		281168d	281168r	281179d	281179r	281191d	281191r	281125t	281135t	281145t	281151t
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		27/10/10	--	27/10/10	--	27/10/10	--	26/10/10	26/10/10	26/10/10	27/10/10
Laboratory Analysis Date		28/10/10	--	28/10/10	--	28/10/10	--	27/10/10	27/10/10	27/10/10	28/10/10
Method : E005.2											
Moisture	EQL										
Moisture	--	15	13%	28	7%	--	--	24	27	19	19

Results expressed in % w/w unless otherwise specified

Comments:

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

Laboratory Identification		281157t	281168t	281179t	281191t						
Sample Identification		QC	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		--	--	--	--						
Laboratory Extraction (Preparation) Date		27/10/10	27/10/10	27/10/10	27/10/10						
Laboratory Analysis Date		28/10/10	28/10/10	28/10/10	28/10/10						
Method : E005.2											
Moisture	EQL										
Moisture	--	23	12	26	--						

Results expressed in % w/w unless otherwise specified

Comments:

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

Sample Receipt Notice (SRN) for E050669



Quality, Service, Support

Client Details

Client Name: Robert Carr and Associates Pty Ltd
Client Phone: 02 4902 9200
Client Fax: 02 4902 9299
Contact Name: Matt Clark
Contact Email: mattc@rca.com.au
Client Address: PO Box 175
 Carrington NSW 2294

Project Name: Prospect
Project Number: 7600
CoC Serial Number: - Not provided -
Purchase Order: - Not provided -
Surcharge: No surcharge applied (results by 6:30pm on due date)
Sample Matrix: SOIL & WATER

Date Sampled (earliest date): 18/10/2010
Date Samples Received: 26/10/2010
Date Sample Receipt Notice issued: 26/10/2010
Date Preliminary Report Due: 02/11/2010
Client TAT Request Date: 02/11/2010

Laboratory Reference Information

Please have this information ready when contacting MGT Labmark.

Laboratory Report: E050669
Quotation Number: Q0711.ES
Laboratory Address: Unit 1, 8 Leighton Pl.
 Asquith NSW 2077

Phone: 61 2 9476 6533
Fax: 61 2 9476 8219

Sample Receipt Contact: Leanne Knowles
Email: leanne.knowles@labmark.com.au
Reporting Contact: Leanne Knowles
Email: leanne.knowles@labmark.com.au

NATA Accreditation: 13542

Reporting Requirements: Electronic Data Download required: No

Invoice Number: 10EA12000

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
 Samples received incomplete. Refer to comments for details .
 Samples received with cooling media: Ice bricks .
 Samples received chilled.
 Security seals not used .
 Sample container & chemical preservation suitable .

Comments: Unlabelled metals bottle as EN3 | 1 sample missing - ES 17 | Water Samples lab preserved & lab filtered for Dissolved Metals

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

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

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

Analysis comments:

Subcontracted Analyses:

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

Sample Receipt Notice (SRN) for E050669



Quality, Service, Support

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

GRID REVIEW TABLE				Requested Analysis																			
No.	Date	Depth	Client Sample ID	BTEX by P&T	BTEX by P&T	Filter water samples	Filtered mercury	Acid extractable metals - mercury	Filtered metals (M7)	Acid extractable metals (M7)	MISSING	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polynuclear Aromatic Hydrocarbons	Polyaromatic Hydrocarbons (PAH)	PREP Not Reported	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	Volatile TPH by P&T (vTPH)	
281125	18/10		TP 1a	●				●		●		●					●		●		●		
281126	18/10		TP 1b	●				●		●		●					●		●		●		
281127	18/10		TP 2a	●				●		●		●					●		●		●		
281128	18/10		TP 2b	●				●		●		●					●		●		●		
281129	18/10		TP 3a	●				●		●		●					●		●		●		
281130	18/10		TP 3b	●				●		●		●					●		●		●		
281131	18/10		TP 4a	●				●		●		●	●	●		●	●	●	●	●	●		
281132	18/10		TP 4b	●				●		●		●					●		●		●		
281133	18/10		TP 5a	●				●		●		●					●		●		●		
281134	18/10		TP 5b	●				●		●		●					●		●		●		
281135	18/10		TP 6a	●				●		●		●					●		●		●		
281136	18/10		TP 6b	●				●		●		●					●		●		●		
281137	18/10		TP 7a	●				●		●		●					●		●		●		
281138	18/10		TP 7b	●				●		●		●					●		●		●		
281139	18/10		TP 8a	●				●		●		●	●	●		●	●	●	●	●	●		
281140	18/10		TP 8b	●				●		●		●					●		●		●		
281141	18/10		TP 9a	●				●		●		●	●	●		●	●	●	●	●	●		
281142	18/10		TP 9b	●				●		●		●	●	●		●	●	●	●	●	●		
281143	19/10		TP 10a	●				●		●		●					●		●		●		
281144	19/10		TP 10b	●				●		●		●					●		●		●		
281145	19/10		TP 11a	●				●		●		●	●	●		●	●	●	●	●	●		
281146	19/10		TP 11b	●				●		●		●					●		●		●		
281147	19/10		TP 12a	●				●		●		●					●		●		●		
281148	19/10		TP 12b	●				●		●		●					●		●		●		
281149	19/10		TP 13a	●				●		●		●					●		●		●		
281150	19/10		TP 13b	●				●		●		●					●		●		●		
281151	19/10		TP 14a	●				●		●		●					●		●		●		
281152	19/10		TP 14b	●				●		●		●					●		●		●		
281153	20/10		TP 15a	●				●		●		●					●		●		●		
281154	20/10		TP 15b	●				●		●		●					●		●		●		
281155	20/10		TP 17a	●				●		●		●					●		●		●		
281156	20/10		TP 17b	●				●		●		●					●		●		●		

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

Sample Receipt Notice (SRN) for E050669



Quality, Service, Support

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

GRID REVIEW TABLE				Requested Analysis																		
No.	Date	Depth	Client Sample ID																			
				BTEX by P&T	BTEX by P&T	Filter water samples	Filtered mercury	Acid extractable metals - mercury	Filtered metals (M7)	Acid extractable metals (M7)	MISSING	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polynuclear Aromatic Hydrocarbons	Polyaromatic Hydrocarbons (PAH)	PREP Not Reported	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	Volatile TPH by P&T (vTPH)
281157	20/10		TP 18a	●				●		●		●				●		●		●		
281158	20/10		TP 18b	●				●		●		●				●		●		●		
281159	20/10		TP 19a	●				●		●		●				●		●		●		
281160	20/10		TP 19b	●				●		●		●				●		●		●		
281161	20/10		TP 20a	●				●		●		●				●		●		●		
281162	20/10		TP 20b	●				●		●		●				●		●		●		
281163	20/10		TP 21a	●				●		●		●				●		●		●		
281164	20/10		TP 21b	●				●		●		●				●		●		●		
281165	20/10		TP 22a	●				●		●		●				●		●		●		
281166	20/10		TP 22b	●				●		●		●				●		●		●		
281167	20/10		TP 23a	●				●		●		●				●		●		●		
281168	20/10		TP 23b	●				●		●		●				●		●		●		
281169	20/10		TP 24a	●				●		●		●				●		●		●		
281170	20/10		TP 24b	●				●		●		●				●		●		●		
281171	21/10		ES1	●				●		●		●	●	●		●	●		●		●	
281172	21/10		ES2	●				●		●		●	●	●		●	●		●		●	
281173	21/10		ES3	●				●		●		●	●	●		●	●		●		●	
281174	21/10		ES4	●				●		●		●	●	●		●	●		●		●	
281175	21/10		ES5	●				●		●		●	●	●		●	●		●		●	
281176	21/10		ES6	●				●		●		●	●	●		●	●		●		●	
281177	21/10		ES7	●				●		●		●	●	●		●	●		●		●	
281178	21/10		ES8	●				●		●		●	●	●		●	●		●		●	
281179	21/10		ES9	●				●		●		●	●	●		●	●		●		●	
281180	22/10		ES10	●				●		●		●	●	●		●	●		●		●	
281181	22/10		ES11	●				●		●		●	●	●		●	●		●		●	
281182	22/10		ES12	●				●		●		●	●	●		●	●		●		●	
281183	22/10		ES13	●				●		●		●	●	●		●	●		●		●	
281184	22/10		ES14	●				●		●		●	●	●		●	●		●		●	
281185	22/10		ES15	●				●		●		●	●	●		●	●		●		●	
281186	22/10		ES16	●				●		●		●	●	●		●	●		●		●	
281187	22/10		ES17								●											
281188	18/10		QB1	●				●		●		●	●	●		●	●		●		●	

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

Sample Receipt Notice (SRN) for E050669



Quality, Service, Support

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

GRID REVIEW TABLE				Requested Analysis																		
No.	Date	Depth	Client Sample ID	BTEX by P&T	BTEX by P&T	Filter water samples	Filtered mercury	Acid extractable metals - mercury	Filtered metals (M7)	Acid extractable metals (M7)	MISSING	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polynuclear Aromatic Hydrocarbons	Polyaromatic Hydrocarbons (PAH)	PREP Not Reported	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	Volatile TPH by P&T (vTPH)
281189	19/10		QB2	●				●		●		●	●	●		●	●		●		●	
281190	20/10		QB3	●				●		●		●	●	●		●	●		●		●	
281191	21/10		QB4	●				●		●		●	●	●		●	●		●		●	
281192	20/10		QA1	●				●		●		●	●	●		●	●		●		●	
281193	20/10		QA3	●				●		●		●	●	●		●	●		●		●	
281194	20/10		QA5	●				●		●		●	●	●		●	●		●		●	
281195	22/10		QA7	●				●		●		●				●	●		●		●	
281196	22/10		EW1		●	●	●		●						●			●		●		●
281197	22/10		EW2		●	●	●		●						●			●		●		●
281198	22/10		EW3		●	●	●		●						●			●		●		●
281199	22/10		EW4		●	●	●		●						●			●		●		●
281200	22/10		EW5		●	●	●		●						●			●		●		●
281201	22/10		QB1		●	●	●		●						●			●		●		●
281202	22/10		QA1		●	●	●		●						●			●		●		●
Totals:				70	7	7	7	70	7	70	1	70	28	28	7	28	70	7	70	7	70	7

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

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

Sample Receipt Notice (SRN) for E050669



Quality, Service, Support

				Requested Analysis															
No.	Date	Depth	Client Sample ID	M8 - M7-F_W	M8 - M7-T_S														
281125	18/10		TP 1a		●														
281126	18/10		TP 1b		●														
281127	18/10		TP 2a		●														
281128	18/10		TP 2b		●														
281129	18/10		TP 3a		●														
281130	18/10		TP 3b		●														
281131	18/10		TP 4a		●														
281132	18/10		TP 4b		●														
281133	18/10		TP 5a		●														
281134	18/10		TP 5b		●														
281135	18/10		TP 6a		●														
281136	18/10		TP 6b		●														
281137	18/10		TP 7a		●														
281138	18/10		TP 7b		●														
281139	18/10		TP 8a		●														
281140	18/10		TP 8b		●														
281141	18/10		TP 9a		●														
281142	18/10		TP 9b		●														
281143	19/10		TP 10a		●														
281144	19/10		TP 10b		●														
281145	19/10		TP 11a		●														
281146	19/10		TP 11b		●														
281147	19/10		TP 12a		●														
281148	19/10		TP 12b		●														
281149	19/10		TP 13a		●														
281150	19/10		TP 13b		●														
281151	19/10		TP 14a		●														
281152	19/10		TP 14b		●														
281153	20/10		TP 15a		●														
281154	20/10		TP 15b		●														
281155	20/10		TP 17a		●														
281156	20/10		TP 17b		●														
281157	20/10		TP 18a		●														

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

Sample Receipt Notice (SRN) for E050669



Quality, Service, Support

				Requested Analysis															
No.	Date	Depth	Client Sample ID	M8 - M7-F_W	M8 - M7-T_S														
281158	20/10		TP 18b		●														
281159	20/10		TP 19a		●														
281160	20/10		TP 19b		●														
281161	20/10		TP 20a		●														
281162	20/10		TP 20b		●														
281163	20/10		TP 21a		●														
281164	20/10		TP 21b		●														
281165	20/10		TP 22a		●														
281166	20/10		TP 22b		●														
281167	20/10		TP 23a		●														
281168	20/10		TP 23b		●														
281169	20/10		TP 24a		●														
281170	20/10		TP 24b		●														
281171	21/10		ES1		●														
281172	21/10		ES2		●														
281173	21/10		ES3		●														
281174	21/10		ES4		●														
281175	21/10		ES5		●														
281176	21/10		ES6		●														
281177	21/10		ES7		●														
281178	21/10		ES8		●														
281179	21/10		ES9		●														
281180	22/10		ES10		●														
281181	22/10		ES11		●														
281182	22/10		ES12		●														
281183	22/10		ES13		●														
281184	22/10		ES14		●														
281185	22/10		ES15		●														
281186	22/10		ES16		●														
281188	18/10		QB1		●														
281189	19/10		QB2		●														
281190	20/10		QB3		●														
281191	21/10		QB4		●														

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

Sample Receipt Notice (SRN) for E050669



Quality, Service, Support

				Requested Analysis															
No.	Date	Depth	Client Sample ID	M8 - M7-F_W	M8 - M7-T_S														
281192	20/10		QA1																
281193	20/10		QA3																
281194	20/10		QA5																
281195	22/10		QA7																
281196	22/10		EW1																
281197	22/10		EW2																
281198	22/10		EW3																
281199	22/10		EW4																
281200	22/10		EW5																
281201	22/10		QB1																
281202	22/10		QA1																
Totals:				7	70														

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

LABMARK		NATA 13542, AQIS N0356		Client Details		Safety Precaution: laboratory sample bottles may contain preservation acid / chemicals, refer to SAFETY label on bottle.	
Dispatch samples to:		Tel (SYD): 612-9476-6533		Company & Address: RCA Australia		Tel: 0249029200	
Unit1/ 8 Leighton Place		Fax (SYD): 612-9476-8219		Project Manager: <u>Melanie Woodward</u>		Fax: 0249029299	
Asquith NSW 2077		(MEL): 613-9686-8344		Project Name: <u>Project</u>		Date Required: _____	
or		(MEL): 613-9686-7344		Please send copy of report to daniellew@rca.com.au		Project No: <u>7000</u>	
116 Moray Street		(DB): 0409449684, (PW): 0439390209		Project No: _____		Lab. Quote No: Q0711.ES	
South Melbourne VIC 3205		ros.schacht@labmark.com.au		Project No: _____		Lab. Quote No: Q0711.ES	
		paul.woodward@labmark.com.au		Project No: _____		Lab. Quote No: Q0711.ES	

YES (tick)

Analysis Request

- Note2:** Contact lab if consolidating multiple analyses into a single sample container.

[illegible]

1
YES

Date: 25/10/10 Time:

Date: 26/10/10 Time: 10:30 AM

LABMARK		NATA 13542, AQIS N0356		Client Details		Safety Precaution: laboratory sample bottles may contain preservation acid / chemicals, refer to SAFETY label on bottle.	
Dispatch samples to:		Tel (SYD): 612-9476-6533		Company & Address: RCA Australia		Tel: 0249029200	
Unit1/ 8 Leighton Place		Fax (SYD): 612-9476-8219		Project Manager: <u>Matt Spence</u>		Fax: 0249029299	
Asquith NSW 2077		(MEL): 613-9686-8344		Sampler: <u> </u>		Date Required: <u> </u>	
or		(MEL): 613-9686-7344		Project Name: <u> </u>		Lab. Quote No: Q0711.ES	
116 Moray Street		(DB): 0409449684, (PW): 0439390209		Please send copy of report to <u>daniellew@rca.com.au</u>		Project No: <u> </u>	
South Melbourne VIC 3205		ros.schacht@labmark.com.au					
		paul.woodward@labmark.com.au					

YES (tick)

Analysis Request

1. Urgent TAT required? (3 days)
2. Do you require sediment present in waters to be included in organic/ inorganic extractions?
3. Do you require additional QA/QC reported where sample batches submitted are < 10 samples? (Fee Applies)
4. Do you require additional EQA or batch specific LCS/ MB results every 20 samples? (Fee Applies)
5. Do you require DIFFERENT standard EQL's from those stated in the current LabMark price catalogue?
6. Do you wish chromatograms to be supplied? (Additional fee applies).
7. Electronic data transfer (.csv.pdf) **REQUIRED**

Note1: Additional water sample must be submitted for lab. duplicate & spike analysis.

Note2: Contact lab if consolidating multiple analyses into a single sample container.

[illegible]

*Metals (circle): As, Cd, Cr, Cu, Ni, Pb, Zn, Hg Cr ⁶⁺ , Cr ³⁺ , Fe ²⁺ , Fe ³⁺ , Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Tl, Bi, Sb	Comments (Highly contaminated samples):
---	---

Lab Report No. E050669

Security Seal Applied

YES

Security Seal Serial #

Relinquished by (print): Robert L. Horn 11/1/74

Signed: _____

Date 5/2/2014

Received By:

Date: 23/10 Time:

Relinquished by (print):

Signed:

Date:

Received By:

Date: 7/2/10 Time: 10:30 AM

Date: 24/10/12 Time: 10:30 AM

Combination Prices only apply if Combo request is circled on COC.

LABMARK		NATA 13542, AQIS N0356		Client Details	
Dispatch samples to: Unit1/ 8 Leighton Place Asquith NSW 2077 or 116 Moray Street South Melbourne VIC 3205		Tel (SYD): 612-9476-6533 Fax (SYD): 612-9476-8219 (MEL): 613-9686-8344 (MEL): 613-9686-7344 (DB): 0409449684, (PW): 0439390209 ros.schacht@labmark.com.au paul.woodward@labmark.com.au		Safety Precaution: laboratory sample bottles may contain preservation acid / chemicals, refer to SAFETY label on bottle.	
		Tel: 0249029200 Fax: 0249029299		Date Required:	
Company & Address: RCA Australia		Project Manager: <u>monika@rca.com.au</u>		Sampler: <u> </u>	
Project Name: <u> </u>		Please send copy of report to daniellew@rca.com.au		Project No: <u>7600</u>	
Lab. Quote No: Q0711.ES					

Global Specifications I require (default is Not required if Not ticked):															YES (tick)	Analysis Request																																																																																							
1. Urgent TAT required? (3 days) 2. Do you require sediment present in waters to be included in organic/ inorganic extractions? 3. Do you require additional QA/QC reported where sample batches submitted are < 10 samples? (Fee Applies) 4. Do you require additional EQA or batch specific LCS/ MB results every 20 samples? (Fee Applies) 5. Do you require DIFFERENT standard EQL's from those stated in the current LabMark price catalogue? 6. Do you wish chromatograms to be supplied? (Additional fee applies). 7. Electronic data transfer (.csv.pdf) REQUIRED Note1: Additional water sample must be submitted for lab. duplicate & spike analysis. Note2: Contact lab if consolidating multiple analyses into a single sample container.																	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">Volatile Tests</th> <th colspan="4">Semi- & Non-Volatile Tests</th> <th colspan="2">Leach</th> <th colspan="4">Nutrient Tests</th> <th colspan="2">Oth</th> </tr> <tr> <th colspan="3">125g</th> <th colspan="4">125g (max. 4 tests)</th> <th colspan="2">250g</th> <th colspan="4">125g (max. 4 tests)</th> <th colspan="2">TC</th> </tr> <tr> <td>2x43 ml</td> <td>2x43ml</td> <td>2x43ml</td> <td>500 ml</td> <td>500 ml</td> <td>500 ml</td> <td>500 ml</td> <td>1 L</td> <td>500 ml</td> <td>125 ml</td> <td colspan="4">0.1 - 1L (chemical groups)</td> <td colspan="2"></td> </tr> <tr> <td>BTEX+VTPH (C6-9) PT-GC/FID/ID/MS</td> <td>VHC PT-GC/MS</td> <td>THM PT-GC/MS</td> <td>MTBE PT-GC/MS</td> <td>VAC PT-GC/MS</td> <td>VOC PT-GC/MS</td> <td>TPH (C10-36) GC/FID</td> <td>PAH's GC/MS</td> <td>Phenols GC/MS</td> <td>Aromatic/ Aliphatic TPH GC/FID</td> <td>(circle) OC, OP, PCB GC/ECD/FPD</td> <td>SVOC GC/MS</td> <td>Phenoxy Acid Herbicides GC/MS</td> <td>Explosives HPLC</td> <td>(circle) Metals* (dissolved / total)</td> <td>TCLP (specify test - other)</td> <td>ZHE TCLP (specify test - other)</td> <td>(circle) pH, EC</td> <td>(circle) NH₃, TKN, N_{org}, TN</td> <td>(circle) NO₃, NO₂</td> <td>(circle) TP, ortho-P, TKP</td> <td>(circle) Cl⁻, F⁻, SO₄²⁻ (circle) soluble/ tota</td> <td>(circle) Total Alk, Speciated Alk</td> <td>(circle) Free CN, WAD, Total CN</td> <td>Total Phenolics</td> <td>Cations (circle) sol/ total - Ca, Mg, Na, K</td> </tr> </table>															Volatile Tests			Semi- & Non-Volatile Tests				Leach		Nutrient Tests				Oth		125g			125g (max. 4 tests)				250g		125g (max. 4 tests)				TC		2x43 ml	2x43ml	2x43ml	500 ml	500 ml	500 ml	500 ml	1 L	500 ml	125 ml	0.1 - 1L (chemical groups)						BTEX+VTPH (C6-9) PT-GC/FID/ID/MS	VHC PT-GC/MS	THM PT-GC/MS	MTBE PT-GC/MS	VAC PT-GC/MS	VOC PT-GC/MS	TPH (C10-36) GC/FID	PAH's GC/MS	Phenols GC/MS	Aromatic/ Aliphatic TPH GC/FID	(circle) OC, OP, PCB GC/ECD/FPD	SVOC GC/MS	Phenoxy Acid Herbicides GC/MS	Explosives HPLC	(circle) Metals* (dissolved / total)	TCLP (specify test - other)	ZHE TCLP (specify test - other)	(circle) pH, EC	(circle) NH ₃ , TKN, N _{org} , TN	(circle) NO ₃ , NO ₂	(circle) TP, ortho-P, TKP	(circle) Cl ⁻ , F ⁻ , SO ₄ ²⁻ (circle) soluble/ tota	(circle) Total Alk, Speciated Alk	(circle) Free CN, WAD, Total CN	Total Phenolics	Cations (circle) sol/ total - Ca, Mg, Na, K
Volatile Tests			Semi- & Non-Volatile Tests				Leach		Nutrient Tests				Oth																																																																																										
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BTEX+VTPH (C6-9) PT-GC/FID/ID/MS	VHC PT-GC/MS	THM PT-GC/MS	MTBE PT-GC/MS	VAC PT-GC/MS	VOC PT-GC/MS	TPH (C10-36) GC/FID	PAH's GC/MS	Phenols GC/MS	Aromatic/ Aliphatic TPH GC/FID	(circle) OC, OP, PCB GC/ECD/FPD	SVOC GC/MS	Phenoxy Acid Herbicides GC/MS	Explosives HPLC	(circle) Metals* (dissolved / total)	TCLP (specify test - other)	ZHE TCLP (specify test - other)	(circle) pH, EC	(circle) NH ₃ , TKN, N _{org} , TN	(circle) NO ₃ , NO ₂	(circle) TP, ortho-P, TKP	(circle) Cl ⁻ , F ⁻ , SO ₄ ²⁻ (circle) soluble/ tota	(circle) Total Alk, Speciated Alk	(circle) Free CN, WAD, Total CN	Total Phenolics	Cations (circle) sol/ total - Ca, Mg, Na, K																																																																														
Lab. Number	Sample ID	Sample Depth	Sampling Date	Matrix				Container Type (Nat. = unpreserved, G=glass, P=plastic)																																																																																															
				soil	water	air	paint, fillers	other	Soil (G) Nat. Orange	0.5-1L (G) Nat. Orange	43ml VOA (G) Nat. Orange	43ml VOA (G) HCl Maroon	0.1-1L (P) H ₂ SO ₄ Purple	0.1-1L (G) H ₂ SO ₄ Purple	0.1-1L (P) Nat. Green	0.1-0.2L (P) HNO ₃ Red Filtered YES/ NO	0.1-1L (P) NaOH, CaNO ₃ Blue	Other																																																																																					
			20/10/10	X					X																																																																																														
281155	TP17a																																																																																																						
281156	TP17b																																																																																																						
281157	TP18a																																																																																																						
281158	TP18b																																																																																																						
281159	TP19a																																																																																																						
281160	TP19b																																																																																																						
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281162	TP20b																																																																																																						
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*Metals (circle): As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr ⁶⁺ , Cr ³⁺ , Fe ²⁺ , Fe ³⁺ , Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Ti, Bi, Sb										Comments (Highly contaminated samples):										Lab Report No. E050669										Security Seal Applied Security Seal Serial #										YES									
Relinquished by (print): <u> </u>										Signed: <u> </u>										Date: <u>20/10/10</u>										Received By: <u> </u>										Date: <u>25/10</u> Time: <u> </u>									
Relinquished by (print): <u> </u>										Signed: <u> </u>										Date: <u> </u>										Received By: <u> </u>										Date: <u>26/10/10</u> Time: <u>10:30AM</u>									

Relinquished by (print): <u>Robert M. S.</u>	Signed: <u>[Signature]</u>	Date: <u>25/10/10</u>	Received By: <u>[Signature]</u>	Date: <u>25/10/10</u> Time: <u></u>
Relinquished by (print): <u></u>	Signed: <u></u>	Date: <u></u>	Received By: <u>[Signature]</u>	Date: <u>26/10/10</u> Time: <u>10:30 AM</u>

LABMARK NATA 13542, AQIS N0356		Client Details Safety Precaution: laboratory sample bottles may contain preservation acid / chemicals, refer to SAFETY label on bottle.	
Dispatch samples to: Unit1/ 8 Leighton Place Asquith NSW 2077 or 116 Moray Street South Melbourne VIC 3205	Tel (SYD): 612-9476-6533 Fax (SYD): 612-9476-8219 (MEL): 613-9686-8344 (MEL): 613-9686-7344 (DB): 0409449684, (PW): 0439390209 ros.schacht@labmark.com.au paul.woodward@labmark.com.au	Company & Address: RCA Australia Project Manager: <u>Melanie J. ...</u> Project Name: <u>...</u> Please send copy of report to daniellew@rca.com.au	Tel: 0249029200 Fx: 0249029299 Date Required: _____ Lab. Quote No: Q0711.ES

YES (tick)

[illegible]

YES

Security Seal Serial #

Time:

Time: 10:30 AM

Combination Prices only apply if Combo request is circled on COC.

LABMARK		NATA 13542, AQIS N0356		Client Details		Safety Precaution: laboratory sample bottles may contain preservation acid / chemicals, refer to SAFETY label on bottle.	
Dispatch samples to: Unit1/ 8 Leighton Place Asquith NSW 2077 or 116 Moray Street South Melbourne VIC 3205		Tel (SYD): 612-9476-6533 Fax (SYD): 612-9476-8219 (MEL): 613-9686-8344 (MEL): 613-9686-7344 (DB): 0409449684, (PW): 0439390209 ros.schacht@labmark.com.au paul.woodward@labmark.com.au		Tel Fax		Company & Address: RCA Australia	
				Project Manager: <i>[Signature]</i>		Sampler: <i>[Signature]</i>	
				Project Name: <i>[Signature]</i>		Date Required:	
				Please send copy of report to daniellew@rca.com.au		Project No: <i>7500</i>	
						Lab. Quote No: Q0711.ES	

Global Specifications I require (default is Not required if Not ticked):

1. Urgent TAT required? (3 days)
2. Do you require sediment present in waters to be included in organic/ inorganic extractions?
3. Do you require additional QA/QC reported where sample batches submitted are < 10 samples? (Fee Applies)
4. Do you require additional EQA or batch specific LCS/ MB results every 20 samples? (Fee Applies)
5. Do you require DIFFERENT standard EQL's from those stated in the current LabMark price catalogue?
6. Do you wish chromatograms to be supplied? (Additional fee applies).
7. Electronic data transfer (.csv.pdf) REQUIRED

Note1: Additional water sample must be submitted for lab. duplicate & spike analysis.

Note2: Contact lab if consolidating multiple analyses into a single sample container.

Lab. Number	Sample ID	Sample Depth	Sampling Date	Matrix				Container Type (Nat. = unpreserved, G=glass, P=plastic)										Combo (circle) <1> <2> <3> <4> <5> <6> <7> <8> <9> <10> <11> <12> <13> <14>	BTEX+VTPH (C6-9) PT-GC/FID/MS	VHC PT-GCMS	THM PT-GCMS	MTBE PT-GCMS	VAC PT-GCMS	VOC PT-GCMS	TPH (C10-36) GC/FID/MS	PAH's GCMS	Phenols GCMS	Aromatic/ Aliphatic GC/MS	SVOC GC/MS	Phenoxy Acid HPLC	Explosives HPLC	Metals* (dis (circle)	TCLP (specify test)	ZHE TCLP (spec (circle)	pH, EC (circle)	NH ₃ , TKN, (circle)	NO ₃ , NO ₂ (circle)	TP, ortho-F (circle)	Cl ⁻ , F ⁻ , SO ₄ (circle)	Total Alk, S (circle)	Free CN, W (circle)	Total Phenolics (circle)	Cations (circle) sol																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				soil	water	air	paint, fillers	other	Soil (G) Nat. Orange	0.5-1L (G) Nat. Orange	43ml VOA (G) Nat. Orange	43ml VOA (G) HCl Maroon	0.1-1L (P) H ₂ SO ₄ Purple	0.1-1L (G) H ₂ SO ₄ Purple	0.1-1L (P) Nat. Green	0.1-0.2L (P) HNO ₃ Red Filtered YES/ NO	0.1-1L (P) NaOH, CdNO ₃ Blue																											Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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*Metals (circle): As, Cd, Cr, Cu, Ni, Pb, Zn, Hg Cr⁶⁺, Cr³⁺, Fe²⁺, Fe³⁺, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Ti, Bi, Sb

Comments (Highly contaminated samples):

Lab Report No. **E050669**

Security Seal Applied

YES

Security Seal Serial #

Relinquished by (print): *[Signature]*Signed: *[Signature]*Date: *22/10/10*Received By: *[Signature]*Date: *22/10/10* Time: *16:36 A*

Relinquished by (print):

Signed:

Date:

Received By: *[Signature]*Date: *26/10/10* Time: *16:36 A*

Relinquished by (print):	Signed:	Date:	Received By:	Date:	Time:
Relinquished by (print):	Signed:	Date:	Received By:	Date:	Time:

Combination Prices only apply if Combo request is circled on COC.

LABMARK		NATA 13542, AQIS N0356		Client Details		Safety Precaution: laboratory sample bottles may contain preservation acid / chemicals, refer to SAFETY label on bottle.	
Dispatch samples to: Unit1/ 8 Leighton Place Asquith NSW 2077 or 116 Moray Street South Melbourne VIC 3205		Tel (SYD): 612-9476-6533 Fax (SYD): 612-9476-8219 (MEL): 613-9686-8344 (MEL): 613-9686-7344 (DB): 0409449684, (PW): 0439390209 ros.schacht@labmark.com.au paul.woodward@labmark.com.au		Company & Address: RCA Australia		Tel: 0249029200	
		Project Manager: <i>m.h.c@rca.com.au</i>		Sampler: <i>Melby Hys</i>		Fx: 0249029299	
		Project Name: <i>Project</i>		Date Required:			
		Please send copy of report to daniellew@rca.com.au		Project No: <i>7600</i>		Lab. Quote No: Q0711.ES	

Global Specifications I require (default is Not required if Not ticked):

YES (tick)

1. Urgent TAT required? (3 days)
2. Do you require sediment present in waters to be included in organic/ inorganic extractions?
3. Do you require additional QA/QC reported where sample batches submitted are < 10 samples? (Fee Applies)
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6. Do you wish chromatograms to be supplied? (Additional fee applies).
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Note1: Additional water sample must be submitted for lab. duplicate & spike analysis.

Note2: Contact lab if consolidating multiple analyses into a single sample container.

Lab. Number	Sample ID	Sample Depth	Sampling Date	Matrix				Container Type (Nat. =unpreserved, G=glass, P=plastic)										Combo (circle) <1> <2> <3> <4> <5> <6> <7> <8> <9> <10> <11> <12> <13> <14>	BTEx+vTPH (G6-9)	VHC PT-GC/MS	THM PT-GC/MS	MTBE PT-GC/MS	VAC PT-GC/MS	VOC PT-GC/MS	TPH (C10-36) GC/FID	PAH's GC/MS	Phenols GC/MS	Aromatic/Aliphatic (circle) OC, OP, PC GC/MS	SVOC GC/MS	Phenoxy Acid H GC/MS	Explosives HPLC	Metals* (diss (circle)	TCPLP (specify test (circle)	ZHE TCLP (spec (circle)	pH, EC (circle)	NH ₃ , TKN, I (circle)	NO ₃ , I (circle)	TP, ortho-P (circle)	Cl ⁻ , F ⁻ , SO ₄ (circle)	Total Alk, S (circle)	Free CN, W (circle)	Total Phenolics	Cations (circle) sol/																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Comments (Highly contaminated samples):

Lab Report No. *E050669*

Security Seal Applied

Security Seal Serial #

YES

Relinquished by (print): *Nathan Hys* Signed: *Nathan Hys* Date: *28/10/06* Received By: *Nathan Hys* Date: *28/10/06* Time: *10:30 AM*

Relinquished by (print): Signed: Date: Received By: Date: Time:

* Metals unfiltered + unpreserved.
required dissolved metals.



Environmental Division

CERTIFICATE OF ANALYSIS

Work Order	: ES1021359	Page	: 1 of 4
Client	: ROBERT CARR & ASSOCIATES P/L	Laboratory	: Environmental Division Sydney
Contact	: MS DANIELLE WHITE	Contact	: Charlie Pierce
Address	: P O BOX 175 CARRINGTON NSW, AUSTRALIA 2294	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: daniellew@rca.com.au	E-mail	: sydney.enviro.services@alsglobal.com
Telephone	: +61 49029200	Telephone	: +61-2-8784 8555
Facsimile	: +61 02 49029299	Facsimile	: +61-2-8784 8500
Project	: PROSPECT	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Order number	: ----	Date Samples Received	: 25-OCT-2010
C-O-C number	: ----	Issue Date	: 31-OCT-2010
Sampler	: NH	No. of samples received	: 4
Site	: ----	No. of samples analysed	: 4
Quote number	: SY/309/10		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits



NATA Accredited Laboratory 825

This document is issued in
accordance with NATA
accreditation requirements.

Accredited for compliance with
ISO/IEC 17025.

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Celine Conceicao	Spectroscopist	Inorganics
Edwandy Fadjjar	Senior Organic Chemist	Organics
Hoa Nguyen	Inorganic Chemist	Inorganics

Environmental Division Sydney

Part of the **ALS Laboratory Group**

277-289 Woodpark Road Smithfield NSW Australia 2164

Tel. +61-2-8784 8555 Fax. +61-2-8784 8500 www.alsglobal.com

A Campbell Brothers Limited Company



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting



Analytical Results

Sub-Matrix: SOIL

Client sample ID

Client sampling date / time

				QA2	QA4	QA6	QA8	----
				20-OCT-2010 15:00	20-OCT-2010 15:00	20-OCT-2010 15:00	22-OCT-2010 15:00	----
Compound	CAS Number	LOR	Unit	ES1021359-001	ES1021359-002	ES1021359-003	ES1021359-004	----
EA055: Moisture Content								
^ Moisture Content (dried @ 103°C)	----	1.0	%	20.3	21.3	20.4	23.7	----
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	19	11	9	7	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	----
Chromium	7440-47-3	2	mg/kg	29	32	20	26	----
Copper	7440-50-8	5	mg/kg	47	48	29	33	----
Lead	7439-92-1	5	mg/kg	20	21	15	35	----
Nickel	7440-02-0	2	mg/kg	25	41	9	19	----
Zinc	7440-66-6	5	mg/kg	97	151	46	145	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	----
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	----
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	----
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	----
EP080: BTEX								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	----
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	110	115	115	112	----
Toluene-D8	2037-26-5	0.1	%	86.1	87.7	87.8	87.6	----
4-Bromofluorobenzene	460-00-4	0.1	%	87.6	90.0	78.3	89.0	----



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	72.8	133.2
Toluene-D8	2037-26-5	73.9	132.1
4-Bromofluorobenzene	460-00-4	71.6	130.0