

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 95 mAHD
EASTING: 291234
NORTHING: 6235666
DIP/AZIMUTH: 90°/--

PIT No: 38
PROJECT No: 40740.99
DATE: 27/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)				
				Type	Depth	Sample	Results & Comments		5	10	15	20	
95		FILLING - brown orange grey silty clay with gravel		D	0.2								
	0.5	- becoming red orange grey clay filing with gravel below 0.3m		D	0.5								
		Pit discontinued at 0.5m - limit of investigation											
94	1								1				
93	2								2				
92	3								3				

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

☐ Sand Penetrometer AS1289.6.3.3

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W	Water seep
E	Environmental sample	W	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 90 mAHD
EASTING: 291124.4
NORTHING: 6235666.04
DIP/AZIMUTH: 90°/--

PIT No: 39
PROJECT No: 40740.99
DATE: 27/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
0		TOPSOIL - brown clayey silt with rootlets		D	0.2							
0.25		CLAY - orange mottled brown clay with trace rootlets										
0.5		Pit discontinued at 0.5m - limit of investigation		D	0.5							
1												
2												
3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 92 mAHD
EASTING: 291115
NORTHING: 6235615
DIP/AZIMUTH: 90°/--

PIT No: 40
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
8		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.35	CLAY - orange mottled brown clay with some rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
8-1												
8-2												
8-3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 94 mAHD
EASTING: 291191.4
NORTHING: 6235564.86
DIP/AZIMUTH: 90°/--

PIT No: 41
PROJECT No: 40740.99
DATE: 25/5/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		FILLING - brown red gravelly clay with trace cobbles		D	0.2							
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
	1											
	2											
	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

☐ Sand Penetrometer AS1289.6.3.3

REMARKS: Near road/track embankment

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 97 mAHD
EASTING: 291196.6
NORTHING: 6235444.82
DIP/AZIMUTH: 90°/--

PIT No: 42
PROJECT No: 40740.99
DATE: 27/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
97.0		FILLING - brown gravelly clay (reworked natural material)										
	0.2	CLAY - red mottled grey clay		D	0.2							
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
96.0	1											
95.0	2											
94.0	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 94 mAHD
EASTING: 291162.2
NORTHING: 6235497.98
DIP/AZIMUTH: 90°/--

PIT No: 43
PROJECT No: 40740.99
DATE: 27/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)				
				Type	Depth	Sample	Results & Comments		5	10	15	20	
94		FILLING - brown clay with gravel, glass and rootlets - glass noted to a depth of 0.2m		D	0.2								
0.5		Pit discontinued at 0.5m - limit of investigation		D	0.5								
93	1								1				
92	2								2				
91	3								3				

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

REMARKS: Road/track embankment

☐ Sand Penetrometer AS1289.6.3.3

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U _x	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W _{seep}	Water seep
E	Environmental sample	W _{level}	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 94 mAHD
EASTING: 291102.2
NORTHING: 6235497.99
DIP/AZIMUTH: 90°/--

PIT No: 44
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

[illegible]

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W	Water seep
E	Environmental sample	W	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



Douglas Partners
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TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 91 mAHD
EASTING: 290956.3
NORTHING: 6235496.28
DIP/AZIMUTH: 90°/--

PIT No: 45
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.4	CLAY - mottled orange grey clay with some rootlets and trace ironstone gravel		D	0.5							
	0.5	Pit discontinued at 0.5m - limit of investigation										
-0.1												
-0.2												
-0.3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 97 mAHD
EASTING: 290856.7
NORTHING: 6235484.29
DIP/AZIMUTH: 90°/--

PIT No: 46
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
97		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.3	CLAY - orange mottled light orange clay with trace rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
98	1											
98	2											
98	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 93 mAHD
EASTING: 290999.2
NORTHING: 6235530.58
DIP/AZIMUTH: 90°/--

PIT No: 47
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
8		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.25	CLAY - orange mottled brown clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
8	1											
8	2											
8	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	Δ	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 98 mAHD
EASTING: 290819
NORTHING: 6235563.17
DIP/AZIMUTH: 90°/--

PIT No: 48
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
98		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.3	CLAY - red mottled brown clay with some rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
97	1											
96	2											
95	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 96 mAHD
EASTING: 290897.9
NORTHING: 6235566.6
DIP/AZIMUTH: 90°/--

PIT No: 49
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
8		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.3	CLAY - red mottled brown clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
8	1											
8	2											
8	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 94 mAHD
EASTING: 290958
NORTHING: 6235576.88
DIP/AZIMUTH: 90°/--

PIT No: 50
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		TOPSOIL - brown silty clay with rootlets										
	0.25	CLAY - orange mottled light brown clay with rootlets		D	0.2							
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
-0.5												
-1.0												
-1.5												
-2.0												
-2.5												
-3.0												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 93 mAHD
EASTING: 291028.4
NORTHING: 6235583.74
DIP/AZIMUTH: 90°/--

PIT No: 51
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
88		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.3	CLAY - orange mottled brown clay with some rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
87	1											
86	2											
85	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 92 mAHD
EASTING: 291079.8
NORTHING: 6235636.9
DIP/AZIMUTH: 90°/--

PIT No: 52
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
8		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.4	CLAY - orange mottled red clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
8	1											
8	2											
8	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 94 mAHD
EASTING: 290968.3
NORTHING: 6235642.04
DIP/AZIMUTH: 90°/--

PIT No: 53
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
0.0		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.35	CLAY - red mottled brown clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
0.5												
1.0												
1.5												
2.0												
2.5												
3.0												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 96 mAHD
EASTING: 290870.4
NORTHING: 6235643.76
DIP/AZIMUTH: 90°/--

PIT No: 54
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		TOPSOIL - brown clayey silt with rootlets										
	0.2	SILTY CLAY - orange silty clay with trace rootlets and ironstone gravel		D	0.2							
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
-0.5												
-1												
-2												
-3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 100 mAHD
EASTING: 290808.6
NORTHING: 6235695.21
DIP/AZIMUTH: 90°/--

PIT No: 55
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
100		CLAY - brown clay with rootlets		D	0.2							
		- becoming red mottled brown clay with rootlets below 0.25m										
0.5		Pit discontinued at 0.5m - limit of investigation		D	0.5							
1												
2												
3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	≻	Water seep	S	Standard penetration test
E	Environmental sample	≻	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 98 mAHD
EASTING: 290848.1
NORTHING: 6235734.66
DIP/AZIMUTH: 90°/--

PIT No: 56
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
98		TOPSOIL - brown clay with rootlets										
	0.25	CLAY - red mottled grey clay with rootlets		D	0.2							
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
97	1											
96	2											
95	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 95 mAHD
EASTING: 290891
NORTHING: 6235703.78
DIP/AZIMUTH: 90°/--

PIT No: 57
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
98		TOPSOIL - brown clayey silt with rootlets		D	0.2							
0.4		CLAY - red mottled brown clay with some rootlets										
0.5		Pit discontinued at 0.5m - limit of investigation		D	0.5							
94	1								1			
93	2								2			
92	3								3			

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
	Core drilling	W	Water sample
D	Disturbed sample	W	Water seep
E	Environmental sample	W	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test (s(50) (MPa)
		PL(D)	Point load diametral test (s(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



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TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 94 mAHD
EASTING: 290956.2
NORTHING: 6235703.78
DIP/AZIMUTH: 90°/--

PIT No: 58
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		TOPSOIL - brown silt with some clay										
	0.25	- some ash and wood noted		D	0.2							
		SILTY CLAY - orange/red silty clay with rootlets and ironstone gravel										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
	1											
	2											
	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 93 mAHD
EASTING: 291021.5
NORTHING: 6235703.77
DIP/AZIMUTH: 90°/--

PIT No: 59
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
88		TOPSOIL - brown clayey silt with rootlets		D	0.2							
	0.25	CLAY - orange mottled brown clay with some rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
87	1											
86	2											
85	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 90 mAHD
EASTING: 291076.4
NORTHING: 6235767.22
DIP/AZIMUTH: 90°/--

PIT No: 60
PROJECT No: 40740.99
DATE: 25/5/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
0		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.35	CLAY - mottled orange brown clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
-0.8	-1											
-1.8	-2											
-2.8	-3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 91 mAHD
EASTING: 290987.1
NORTHING: 6235791.23
DIP/AZIMUTH: 90°/--

PIT No: 61
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
91		TOPSOIL - brown clayey silt with rootlets		D	0.2							
	0.4	CLAY - red mottled brown clay with some rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
90	1											
90	2											
90	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 93 mAHD
EASTING: 290927
NORTHING: 6235798.09
DIP/AZIMUTH: 90°/--

PIT No: 62
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
88		SILTY CLAY - brown silty clay with rootlets		D	0.2							
		- ash noted at 0.2m										
	0.3	CLAY - red mottled brown clay with some rootlets		D	0.5							
	0.5	Pit discontinued at 0.5m - limit of investigation										
87	1											
86	2											
85	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

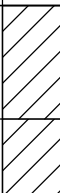
SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 97 mAHD
EASTING: 290851.5
NORTHING: 6235787.81
DIP/AZIMUTH: 90°/--

PIT No: 63
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
97		CLAY - dark brown clay with rootlets		D	0.2							
	0.3	CLAY - light brown slightly orange clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
98	1											
	2											
	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 99 mAHD
EASTING: 290806.9
NORTHING: 6235844.4
DIP/AZIMUTH: 90°/--

PIT No: 64
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
8		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.25	CLAY - red mottled light brown clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
8	-1											
8	-2											
8	-3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	Δ	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 97 mAHD
EASTING: 290865.2
NORTHING: 6235846.11
DIP/AZIMUTH: 90°/--

PIT No: 65
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
97.0		CLAY - dark brown clay with rootlets (reworked)										
	0.2	CLAY - red mottled grey clay with rootlets		D	0.2							
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
96.0	1											
95.0	2											
94.0	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 93 mAHD
EASTING: 290923.6
NORTHING: 6235844.39
DIP/AZIMUTH: 90°/--

PIT No: 66
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
88		TOPSOIL - brown clay with rootlets										
	0.2	CLAY - grey mottled red clay with rootlets		D	0.2							
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
87	1											
86	2											
85	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 90 mAHD
EASTING: 291028.3
NORTHING: 6235837.53
DIP/AZIMUTH: 90°/--

PIT No: 67
PROJECT No: 40740.99
DATE: 25/5/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		TOPSOIL - light brown/grey silt with rootlets		D	0.2							
	0.3	CLAY - orange mottled brown clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
	1											
	2											
	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 89 mAHD
EASTING: 291022.2
NORTHING: 6235914.7
DIP/AZIMUTH: 90°/--

PIT No: 68
PROJECT No: 40740.99
DATE: 25/5/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
8		TOPSOIL - brown clay with some silt and rootlets		D	0.2							
	0.28	CLAY - light brown clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
-1												
-2												
-3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 90 mAHD
EASTING: 290964.8
NORTHING: 6235911.27
DIP/AZIMUTH: 90°/--

PIT No: 69
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
0		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.35	CLAY - brown mottled orange clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
-0.8	-1											
-1.8	-2											
-2.8	-3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 92 mAHD
EASTING: 290902.1
NORTHING: 6235906.99
DIP/AZIMUTH: 90°/--

PIT No: 70
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
8		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.25	CLAY - grey mottled red clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
8	1											
8	2											
8	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 96 mAHD
EASTING: 290785.4
NORTHING: 6235894.99
DIP/AZIMUTH: 90°/--

PIT No: 71
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
8		TOPSOIL - brown silty clay with rootlets										
	0.2	CLAY - red mottled brown clay with rootlets		D	0.2							
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
8-1												
8-2												
8-3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 95 mAHD
EASTING: 290824
NORTHING: 6235931.86
DIP/AZIMUTH: 90°/--

PIT No: 72
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
8		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.25	CLAY - red mottled grey clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
8	1											
8	2											
8	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 93 mAHD
EASTING: 290870.3
NORTHING: 6235968.73
DIP/AZIMUTH: 90°/--

PIT No: 73
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.3	CLAY - orange mottled brown clay with some rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
	1											
	2											
	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 94 mAHD
EASTING: 290781.1
NORTHING: 6235966.16
DIP/AZIMUTH: 90°/--

PIT No: 74
PROJECT No: 40740.99
DATE: 27/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		TOPSOIL - brown silty clay topsoil										
	0.2	CLAY - orange mottled brown clay with rootlets		D	0.2							
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
-1												
-2												
-3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 91 mAHD
EASTING: 290906.4
NORTHING: 6236000.45
DIP/AZIMUTH: 90°/--

PIT No: 75
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
91		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.4	CLAY - brown mottled orange clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
88	1											
88	2											
88	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 92 mAHD
EASTING: 290831.7
NORTHING: 6236015.03
DIP/AZIMUTH: 90°/--

PIT No: 76
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
8		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.3	CLAY - orange mottled brown clay with rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
8	1											
8	2											
8	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 91 mAHD
EASTING: 290756.2
NORTHING: 6236050.18
DIP/AZIMUTH: 90°/--

PIT No: 77
PROJECT No: 40740.99
DATE: 27/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		TOPSOIL - brown clayey silt with some rootlets		D	0.2							
	0.4	CLAY - light brown mottled orange clay with trace rootlets		D	0.5							
	0.5	Pit discontinued at 0.5m - refusal on medium strength shale										
-0.1												
-0.2												
-0.3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 91 mAHD
EASTING: 290913.3
NORTHING: 6235947.28
DIP/AZIMUTH: 90°/--

PIT No: 78
PROJECT No: 40740.99
DATE: 25/5/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
91.0		TOPSOIL - brown silty clay with rootlets										
	0.2	CLAY - orange mottled brown clay with rootlets		D	0.2							
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
90.0	1											
89.0	2											
88.0	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 89 mAHD
EASTING: 291033.4
NORTHING: 6235954.14
DIP/AZIMUTH: 90°/--

PIT No: 79
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
8		TOPSOIL - brown grey silt with some rootlets		D	0.2							
	0.4	CLAY - mottled red orange clay with some rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
8-1												
8-2												
8-3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 88 mAHD
EASTING: 290959.6
NORTHING: 6236031.31
DIP/AZIMUTH: 90°/--

PIT No: 80
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
88		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.25	CLAY - orange mottled brown clay with some rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
88	1											
88	2											
88	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 89 mAHD
EASTING: 290868.6
NORTHING: 6236055.32
DIP/AZIMUTH: 90°/--

PIT No: 81
PROJECT No: 40740.99
DATE: 24/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)				
				Type	Depth	Sample	Results & Comments		5	10	15	20	
88		TOPSOIL - brown silty clay with rootlets		D	0.2								
0.45 0.5		CLAY - orange mottled red clay with rootlets Pit discontinued at 0.5m - limit of investigation		D	0.5								
88	1								1				
87	2								2				
86	3								3				

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	WS	Water seep
E	Environmental sample	WL	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		PP	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 90 mAHD
EASTING: 290805.1
NORTHING: 6236067.33
DIP/AZIMUTH: 90°/--

PIT No: 82
PROJECT No: 40740.99
DATE: 27/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
0		TOPSOIL - brown silty clay with rootlets		D	0.2							
0.25		CLAY - red mottled brown clay with trace rootlets										
0.5		Pit discontinued at 0.5m - limit of investigation		D	0.5							
1												
2												
3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 89 mAHD
EASTING: 290807.7
NORTHING: 6236116.21
DIP/AZIMUTH: 90°/--

PIT No: 83
PROJECT No: 40740.99
DATE: 27/1/2011
SHEET 1 OF 1

[illegible]

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W	Water seep
E	Environmental sample	W	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



Douglas Partners
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TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 89 mAHD
EASTING: 290868.6
NORTHING: 6236130.77
DIP/AZIMUTH: 90°/--

PIT No: 84
PROJECT No: 40740.99
DATE: 27/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
88		TOPSOIL - brown silty clay with trace rootlets										
	0.2	CLAY - light brown mottled orange clay with trace rootlets		D	0.2							
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
88-1												
88-2												
88-3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	Δ	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 87 mAHD
EASTING: 290955.3
NORTHING: 6236129.06
DIP/AZIMUTH: 90°/--

PIT No: 85
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
87		TOPSOIL - brown silty clay with some rootlets										
	0.2	CLAY - brown clay with some rootlets		D	0.2							
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
-1												
-2												
-3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 86 mAHD
EASTING: 291041.1
NORTHING: 6236127.34
DIP/AZIMUTH: 90°/--

PIT No: 86
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
86		TOPSOIL - brown silty clay with rootlets		D	0.2							
	0.4	CLAY - orange mottled brown clay with some rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
85	1											
84	2											
83	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 87 mAHD
EASTING: 290990.5
NORTHING: 6236080.19
DIP/AZIMUTH: 90°/--

PIT No: 87
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

[illegible]

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U _x	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W _{seep}	Water seep
E	Environmental sample	W _{level}	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 87 mAHD
EASTING: 291002.4
NORTHING: 6236177.07
DIP/AZIMUTH: 90°/--

PIT No: 88
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
87		TOPSOIL - grey silty clay with some rootlets		D	0.2							
	0.35	CLAY - yellow grey clay with some rootlets										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
88	-1											
88	-2											
88	-3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
 Oran Park

SURFACE LEVEL: 86 mAHD
EASTING: 291011
NORTHING: 6236241.37
DIP/AZIMUTH: 90°/--

PIT No: 89
PROJECT No: 40740.99
DATE: 25/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
88		TOPSOIL - brown/grey silty clay with rootlets										
	0.2	CLAY - orange brown clay with rootlets and roots		D	0.2							
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
88-1												
88-2												
88-3												

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Landcom
PROJECT: Salinity Management Plan
LOCATION: Tranche 7, 8 and Anthony Reserve
Oran Park

SURFACE LEVEL: 88 mAHD
EASTING: 290878.9
NORTHING: 6236193.36
DIP/AZIMUTH: 90°/--

PIT No: 90
PROJECT No: 40740.99
DATE: 27/1/2011
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
88		TOPSOIL - brown silty clay with trace rootlets		D	0.2							
	0.25	CLAY - light brown mottled orange clay										
	0.5	Pit discontinued at 0.5m - limit of investigation		D	0.5							
88	1											
88	2											
88	3											

RIG: Komatsu WB97R - 450 bucket

LOGGED: BAH

SURVEY DATUM:

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

Appendix E

Certified Laboratory Reports and Chain-of-Custody Documentations



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

Douglas Partners Pty Ltd Smeaton Grange
Unit 5/50 Topham Rd
Smeaton Grange NSW 2567

ph: 02 4647 0075
Fax: 02 4646 1886

Attention: Chris Kline

Sample log in details:

Your reference:	40740.98, Contamination Assessment
Envirolab Reference:	51114
Date received:	28/01/2011
Date results expected to be reported:	4/02/11

Samples received in appropriate condition for analysis:	YES
No. of samples provided	94 Soils
Turnaround time requested:	Standard
Temperature on receipt	Cool
Cooling Method:	Ice Pack

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au



EnviroLab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 51114

Client:

Douglas Partners Pty Ltd Smeaton Grange
Unit 5/50 Topham Rd
Smeaton Grange
NSW 2567

Attention: Chris Kline

Sample log in details:

Your Reference:	<u>40740.98, Contamination Assessment</u>
No. of samples:	94 Soils
Date samples received:	28/01/2011
Date completed instructions received:	28/01/2011

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by:	4/02/11
Date of Preliminary Report:	Not issued
Issue Date:	3/02/11

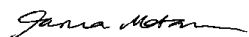
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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:


Tania Notaras
Manager


Rhian Morgan
Reporting Supervisor


Nancy Zhang
Chemist



EnviroLab Reference: 51114
Revision No: R 00

vTRH & BTEX in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-1 26/0.2 27/01/2011 Soil	51114-4 26/2.0 27/01/2011 Soil	51114-6 11/0.2 27/01/2011 Soil	51114-7 11/0.5 27/01/2011 Soil	51114-8 8/0.2 27/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
vTRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	102	105	109	109	103

vTRH & BTEX in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-10 9/0.2 27/01/2011 Soil	51114-13 10/0.2 27/01/2011 Soil	51114-14 10/0.5 27/01/2011 Soil	51114-16 29/0.2 27/01/2011 Soil	51114-18 30/0.2 27/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
vTRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	120	110	76	78	74

vTRH & BTEX in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-19 30/0.5 27/01/2011 Soil	51114-21 28/0.2 27/01/2011 Soil	51114-22 28/0.5 27/01/2011 Soil	51114-23 27/0.2 27/01/2011 Soil	51114-25 7/0.2 27/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
vTRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	74	73	73	74	73

vTRH & BTEX in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-26 7/0.5 27/01/2011 Soil	51114-27 6/0.2 27/01/2011 Soil	51114-30 1/0.2 27/01/2011 Soil	51114-31 1/0.5 27/01/2011 Soil	51114-32 22/0.2 27/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
vTRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	72	75	74	71	72

vTRH & BTEX in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-33 22/0.5 27/01/2011 Soil	51114-34 5/0.2 25/01/2011 Soil	51114-35 5/0.5 25/01/2011 Soil	51114-37 14/0.2 25/01/2011 Soil	51114-40 16/0.2 25/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
vTRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	78	76	73	77	75

vTRH & BTEX in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-42 16/1.0 25/01/2011 Soil	51114-43 15/0.2 25/01/2011 Soil	51114-46 12/0.2 25/01/2011 Soil	51114-47 12/0.5 25/01/2011 Soil	51114-49 3/0.2 25/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
vTRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	74	75	66	74	77

vTRH & BTEX in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-51 3/1.0 25/01/2011 Soil	51114-52 2/0.2 25/01/2011 Soil	51114-55 4/0.2 25/01/2011 Soil	51114-58 25/0.2 24/01/2011 Soil	51114-61 24/0.2 24/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
vTRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	75	80	80	73	77

vTRH & BTEX in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-62 24/0.5 24/01/2011 Soil	51114-64 23/0.2 24/01/2011 Soil	51114-69 17/0.2 24/01/2011 Soil	51114-72 21/0.2 24/01/2011 Soil	51114-75 20/0.2 24/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
vTRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	72	74	77	78	75

vTRH & BTEX in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-76 20/0.5 24/01/2011 Soil	51114-78 19/0.2 24/01/2011 Soil	51114-81 13/0.2 24/01/2011 Soil	51114-82 13/0.5 24/01/2011 Soil	51114-84 18/0.2 24/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
vTRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	75	79	77	80	77

vTRH & BTEX in Soil				
Our Reference:	UNITS	51114-85	51114-87	51114-91
Your Reference	-----	18/0.5	BD1/240111	BD5/240111
Date Sampled	-----	24/01/2011	24/01/2011	25/01/2011
Type of sample		Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011
vTRH C ₆ - C ₉	mg/kg	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	81	76	76

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	51114-1	51114-4	51114-6	51114-7	51114-8
Your Reference	-----	26/0.2	26/2.0	11/0.2	11/0.5	8/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	100	103	102	101	104

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	51114-10	51114-13	51114-14	51114-16	51114-18
Your Reference	-----	9/0.2	10/0.2	10/0.5	29/0.2	30/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	103	100	100	100	100

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	51114-19	51114-21	51114-22	51114-23	51114-25
Your Reference	-----	30/0.5	28/0.2	28/0.5	27/0.2	7/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	99	98	100	99	95

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	51114-26	51114-27	51114-30	51114-31	51114-32
Your Reference	-----	7/0.5	6/0.2	1/0.2	1/0.5	22/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	100	98	100	100	96

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	51114-33	51114-34	51114-35	51114-37	51114-40
Your Reference	-----	22/0.5	5/0.2	5/0.5	14/0.2	16/0.2
Date Sampled	-----	27/01/2011	25/01/2011	25/01/2011	25/01/2011	25/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	94	96	103	105	96

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	51114-42	51114-43	51114-46	51114-47	51114-49
Your Reference	-----	16/1.0	15/0.2	12/0.2	12/0.5	3/0.2
Date Sampled	-----	25/01/2011	25/01/2011	25/01/2011	25/01/2011	25/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	100	95	99	99	99

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	51114-51	51114-52	51114-55	51114-58	51114-61
Your Reference	-----	3/1.0	2/0.2	4/0.2	25/0.2	24/0.2
Date Sampled	-----	25/01/2011	25/01/2011	25/01/2011	24/01/2011	24/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	96	98	96	97	97

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	51114-62	51114-64	51114-69	51114-72	51114-75
Your Reference	-----	24/0.5	23/0.2	17/0.2	21/0.2	20/0.2
Date Sampled	-----	24/01/2011	24/01/2011	24/01/2011	24/01/2011	24/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	96	94	93	94	96

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	51114-76	51114-78	51114-81	51114-82	51114-84
Your Reference	-----	20/0.5	19/0.2	13/0.2	13/0.5	18/0.2
Date Sampled	-----	24/01/2011	24/01/2011	24/01/2011	24/01/2011	24/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	95	97	94	95	95

sTRH in Soil (C10-C36)				
Our Reference:	UNITS	51114-85	51114-87	51114-91
Your Reference	-----	18/0.5	BD1/240111	BD5/240111
Date Sampled	-----	24/01/2011	24/01/2011	25/01/2011
Type of sample		Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100
Surrogate o-Terphenyl	%	94	99	94

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-1 26/0.2 27/01/2011 Soil	51114-4 26/2.0 27/01/2011 Soil	51114-6 11/0.2 27/01/2011 Soil	51114-7 11/0.5 27/01/2011 Soil	51114-8 8/0.2 27/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p- Terphenyl-d ₁₄	%	93	89	94	92	97

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-10 9/0.2 27/01/2011 Soil	51114-13 10/0.2 27/01/2011 Soil	51114-14 10/0.5 27/01/2011 Soil	51114-16 29/0.2 27/01/2011 Soil	51114-18 30/0.2 27/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p- Terphenyl-d ₁₄	%	93	91	89	91	86

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-19 30/0.5 27/01/2011 Soil	51114-21 28/0.2 27/01/2011 Soil	51114-22 28/0.5 27/01/2011 Soil	51114-23 27/0.2 27/01/2011 Soil	51114-25 7/0.2 27/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p- Terphenyl-d ₁₄	%	88	95	93	92	88

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-26 7/0.5 27/01/2011 Soil	51114-27 6/0.2 27/01/2011 Soil	51114-30 1/0.2 27/01/2011 Soil	51114-31 1/0.5 27/01/2011 Soil	51114-32 22/0.2 27/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p- Terphenyl-d ₁₄	%	85	93	93	95	95

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-33 22/0.5 27/01/2011 Soil	51114-34 5/0.2 25/01/2011 Soil	51114-35 5/0.5 25/01/2011 Soil	51114-37 14/0.2 25/01/2011 Soil	51114-40 16/0.2 25/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p- Terphenyl-d ₁₄	%	90	93	101	102	101

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-42 16/1.0 25/01/2011 Soil	51114-43 15/0.2 25/01/2011 Soil	51114-46 12/0.2 25/01/2011 Soil	51114-47 12/0.5 25/01/2011 Soil	51114-49 3/0.2 25/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p- Terphenyl-d ₁₄	%	101	100	106	105	102

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-51 3/1.0 25/01/2011 Soil	51114-52 2/0.2 25/01/2011 Soil	51114-55 4/0.2 25/01/2011 Soil	51114-58 25/0.2 24/01/2011 Soil	51114-61 24/0.2 24/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p- Terphenyl-d ₁₄	%	98	100	102	109	101

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-62 24/0.5 24/01/2011 Soil	51114-64 23/0.2 24/01/2011 Soil	51114-69 17/0.2 24/01/2011 Soil	51114-72 21/0.2 24/01/2011 Soil	51114-75 20/0.2 24/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p- Terphenyl-d ₁₄	%	99	97	100	95	100

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-76 20/0.5 24/01/2011 Soil	51114-78 19/0.2 24/01/2011 Soil	51114-81 13/0.2 24/01/2011 Soil	51114-82 13/0.5 24/01/2011 Soil	51114-84 18/0.2 24/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p- Terphenyl-d ₁₄	%	105	101	98	101	99

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-85 18/0.5 24/01/2011 Soil	51114-87 BD1/240111 24/01/2011 Soil	51114-91 BD5/240111 25/01/2011 Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	31/01/2011	31/01/2011	31/01/2011
Naphthalene	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1
Surrogate p- Terphenyl-d ₁₄	%	103	101	98

Organochlorine Pesticides in soil						
Our Reference:	UNITS	51114-1	51114-4	51114-6	51114-7	51114-8
Your Reference	-----	26/0.2	26/2.0	11/0.2	11/0.5	8/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	137	131	140	110	138

Organochlorine Pesticides in soil						
Our Reference:	UNITS	51114-10	51114-13	51114-14	51114-16	51114-18
Your Reference	-----	9/0.2	10/0.2	10/0.5	29/0.2	30/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	123	128	116	121	121

Organochlorine Pesticides in soil						
Our Reference:	UNITS	51114-19	51114-21	51114-22	51114-23	51114-25
Your Reference	-----	30/0.5	28/0.2	28/0.5	27/0.2	7/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	119	104	119	105	118

Organochlorine Pesticides in soil						
Our Reference:	UNITS	51114-26	51114-27	51114-30	51114-31	51114-32
Your Reference	-----	7/0.5	6/0.2	1/0.2	1/0.5	22/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	115	135	114	123	106

Organochlorine Pesticides in soil						
Our Reference:	UNITS	51114-33	51114-34	51114-35	51114-37	51114-40
Your Reference	-----	22/0.5	5/0.2	5/0.5	14/0.2	16/0.2
Date Sampled	-----	27/01/2011	25/01/2011	25/01/2011	25/01/2011	25/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	110	107	137	125	130

Organochlorine Pesticides in soil						
Our Reference:	UNITS	51114-42	51114-43	51114-46	51114-47	51114-49
Your Reference	-----	16/1.0	15/0.2	12/0.2	12/0.5	3/0.2
Date Sampled	-----	25/01/2011	25/01/2011	25/01/2011	25/01/2011	25/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	140	127	121	135	110

Organochlorine Pesticides in soil						
Our Reference:	UNITS	51114-51	51114-52	51114-55	51114-58	51114-61
Your Reference	-----	3/1.0	2/0.2	4/0.2	25/0.2	24/0.2
Date Sampled	-----	25/01/2011	25/01/2011	25/01/2011	24/01/2011	24/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	113	116	109	119	123

Organochlorine Pesticides in soil						
Our Reference:	UNITS	51114-62	51114-64	51114-69	51114-72	51114-75
Your Reference	-----	24/0.5	23/0.2	17/0.2	21/0.2	20/0.2
Date Sampled	-----	24/01/2011	24/01/2011	24/01/2011	24/01/2011	24/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	110	110	108	109	112

Organochlorine Pesticides in soil						
Our Reference:	UNITS	51114-76	51114-78	51114-81	51114-82	51114-84
Your Reference	-----	20/0.5	19/0.2	13/0.2	13/0.5	18/0.2
Date Sampled	-----	24/01/2011	24/01/2011	24/01/2011	24/01/2011	24/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	116	111	130	138	134

Organochlorine Pesticides in soil				
Our Reference:	UNITS	51114-85	51114-87	51114-91
Your Reference	-----	18/0.5	BD1/240111	BD5/240111
Date Sampled	-----	24/01/2011	24/01/2011	25/01/2011
Type of sample		Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011
HCB	mg/kg	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1
Surrogate TCLMX	%	118	130	120

Organophosphorus Pesticides						
Our Reference:	UNITS	51114-1	51114-4	51114-6	51114-7	51114-8
Your Reference	-----	26/0.2	26/2.0	11/0.2	11/0.5	8/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	137	131	140	110	138

Organophosphorus Pesticides						
Our Reference:	UNITS	51114-10	51114-13	51114-14	51114-16	51114-18
Your Reference	-----	9/0.2	10/0.2	10/0.5	29/0.2	30/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	123	128	116	121	121

Organophosphorus Pesticides						
Our Reference:	UNITS	51114-19	51114-21	51114-22	51114-23	51114-25
Your Reference	-----	30/0.5	28/0.2	28/0.5	27/0.2	7/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	119	104	119	105	118

Organophosphorus Pesticides						
Our Reference:	UNITS	51114-26	51114-27	51114-30	51114-31	51114-32
Your Reference	-----	7/0.5	6/0.2	1/0.2	1/0.5	22/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	115	135	114	123	106

Organophosphorus Pesticides	UNITS	51114-33	51114-34	51114-35	51114-37	51114-40
Our Reference:	-----	22/0.5	5/0.2	5/0.5	14/0.2	16/0.2
Your Reference	-----	27/01/2011	25/01/2011	25/01/2011	25/01/2011	25/01/2011
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	110	107	137	125	130

Organophosphorus Pesticides	UNITS	51114-42	51114-43	51114-46	51114-47	51114-49
Our Reference:	-----	16/1.0	15/0.2	12/0.2	12/0.5	3/0.2
Your Reference	-----	25/01/2011	25/01/2011	25/01/2011	25/01/2011	25/01/2011
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	140	127	121	135	110

Organophosphorus Pesticides	UNITS	51114-51	51114-52	51114-55	51114-58	51114-61
Our Reference:	-----	3/1.0	2/0.2	4/0.2	25/0.2	24/0.2
Your Reference	-----	25/01/2011	25/01/2011	25/01/2011	24/01/2011	24/01/2011
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	113	116	109	119	123

Organophosphorus Pesticides	UNITS	51114-62	51114-64	51114-69	51114-72	51114-75
Our Reference:	-----	24/0.5	23/0.2	17/0.2	21/0.2	20/0.2
Your Reference	-----	24/01/2011	24/01/2011	24/01/2011	24/01/2011	24/01/2011
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	110	110	108	109	112

Organophosphorus Pesticides						
Our Reference:	UNITS	51114-76	51114-78	51114-81	51114-82	51114-84
Your Reference	-----	20/0.5	19/0.2	13/0.2	13/0.5	18/0.2
Date Sampled	-----	24/01/2011	24/01/2011	24/01/2011	24/01/2011	24/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	116	111	130	138	134

Organophosphorus Pesticides				
Our Reference:	UNITS	51114-85	51114-87	51114-91
Your Reference	-----	18/0.5	BD1/240111	BD5/240111
Date Sampled	-----	24/01/2011	24/01/2011	25/01/2011
Type of sample		Soil	Soil	Soil
Date extracted	-	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011
Diazinon	mg/kg	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1
Surrogate TCLMX	%	118	130	120

Acid Extractable metals in soil						
Our Reference:	UNITS	51114-1	51114-4	51114-6	51114-7	51114-8
Your Reference	-----	26/0.2	26/2.0	11/0.2	11/0.5	8/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Arsenic	mg/kg	9	12	9	8	10
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	21	26	30	31	26
Copper	mg/kg	23	18	21	21	17
Lead	mg/kg	23	21	31	25	26
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	11	11	13	12	10
Zinc	mg/kg	43	28	37	31	32

Acid Extractable metals in soil						
Our Reference:	UNITS	51114-10	51114-13	51114-14	51114-16	51114-18
Your Reference	-----	9/0.2	10/0.2	10/0.5	29/0.2	30/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Arsenic	mg/kg	8	10	7	10	17
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	19	25	16	24	19
Copper	mg/kg	15	14	21	20	33
Lead	mg/kg	23	29	26	27	21
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	9	15	11	25
Zinc	mg/kg	30	23	29	37	72

Acid Extractable metals in soil						
Our Reference:	UNITS	51114-19	51114-21	51114-22	51114-23	51114-25
Your Reference	-----	30/0.5	28/0.2	28/0.5	27/0.2	7/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Arsenic	mg/kg	6	8	9	9	9
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	19	24	25	24	27
Copper	mg/kg	27	20	27	19	19
Lead	mg/kg	26	28	28	28	30
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	11	14	17	10	10
Zinc	mg/kg	42	33	54	33	37

Acid Extractable metals in soil						
Our Reference:	UNITS	51114-26	51114-27	51114-30	51114-31	51114-32
Your Reference	-----	7/0.5	6/0.2	1/0.2	1/0.5	22/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Arsenic	mg/kg	8	6	6	7	7
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	23	17	17	18	19
Copper	mg/kg	23	11	17	21	21
Lead	mg/kg	26	22	16	17	17
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	8	9	10	9
Zinc	mg/kg	29	13	24	28	26

Acid Extractable metals in soil						
Our Reference:	UNITS	51114-33	51114-34	51114-35	51114-37	51114-40
Your Reference	-----	22/0.5	5/0.2	5/0.5	14/0.2	16/0.2
Date Sampled	-----	27/01/2011	25/01/2011	25/01/2011	25/01/2011	25/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Arsenic	mg/kg	7	7	6	10	9
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	17	26	21	27	21
Copper	mg/kg	22	18	23	20	10
Lead	mg/kg	20	23	18	26	28
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	11	9	13	7
Zinc	mg/kg	32	24	25	33	15

Acid Extractable metals in soil						
Our Reference:	UNITS	51114-42	51114-43	51114-46	51114-47	51114-49
Your Reference	-----	16/1.0	15/0.2	12/0.2	12/0.5	3/0.2
Date Sampled	-----	25/01/2011	25/01/2011	25/01/2011	25/01/2011	25/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Arsenic	mg/kg	9	9	11	5	7
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	20	23	24	17	18
Copper	mg/kg	22	16	20	20	12
Lead	mg/kg	25	22	20	14	23
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	12	9	13	7	8
Zinc	mg/kg	38	26	37	28	16

Acid Extractable metals in soil						
Our Reference:	UNITS	51114-51	51114-52	51114-55	51114-58	51114-61
Your Reference	-----	3/1.0	2/0.2	4/0.2	25/0.2	24/0.2
Date Sampled	-----	25/01/2011	25/01/2011	25/01/2011	24/01/2011	24/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Arsenic	mg/kg	6	7	<4	10	7
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	14	25	13	20	14
Copper	mg/kg	19	14	7	21	13
Lead	mg/kg	16	22	16	35	15
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	9	9	4	14	5
Zinc	mg/kg	27	20	12	45	18

Acid Extractable metals in soil						
Our Reference:	UNITS	51114-62	51114-64	51114-69	51114-72	51114-75
Your Reference	-----	24/0.5	23/0.2	17/0.2	21/0.2	20/0.2
Date Sampled	-----	24/01/2011	24/01/2011	24/01/2011	24/01/2011	24/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Arsenic	mg/kg	8	7	9	6	9
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	15	18	21	18	25
Copper	mg/kg	18	16	12	24	20
Lead	mg/kg	14	22	28	18	26
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	6	9	9	7	12
Zinc	mg/kg	24	25	24	28	42

Acid Extractable metals in soil						
Our Reference:	UNITS	51114-76	51114-78	51114-81	51114-82	51114-84
Your Reference	-----	20/0.5	19/0.2	13/0.2	13/0.5	18/0.2
Date Sampled	-----	24/01/2011	24/01/2011	24/01/2011	24/01/2011	24/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011	01/02/2011	01/02/2011
Arsenic	mg/kg	8	8	17	11	9
Cadmium	mg/kg	<0.5	<0.5	0.9	<0.5	<0.5
Chromium	mg/kg	20	37	21	16	21
Copper	mg/kg	32	13	22	22	11
Lead	mg/kg	29	22	18	15	28
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	12	9	15	8	8
Zinc	mg/kg	59	27	43	34	16

Acid Extractable metals in soil				
Our Reference:	UNITS	51114-85	51114-87	51114-91
Your Reference	-----	18/0.5	BD1/240111	BD5/240111
Date Sampled	-----	24/01/2011	24/01/2011	25/01/2011
Type of sample		Soil	Soil	Soil
Date digested	-	01/02/2011	01/02/2011	01/02/2011
Date analysed	-	01/02/2011	01/02/2011	01/02/2011
Arsenic	mg/kg	8	7	6
Cadmium	mg/kg	<0.5	<0.5	<0.5
Chromium	mg/kg	20	19	19
Copper	mg/kg	18	15	19
Lead	mg/kg	15	26	17
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	8	9	8
Zinc	mg/kg	25	25	23

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-1 26/0.2 27/01/2011 Soil	51114-4 26/2.0 27/01/2011 Soil	51114-6 11/0.2 27/01/2011 Soil	51114-7 11/0.5 27/01/2011 Soil	51114-8 8/0.2 27/01/2011 Soil
Date prepared	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Moisture	%	9.4	13	9.3	13	9.7

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-10 9/0.2 27/01/2011 Soil	51114-13 10/0.2 27/01/2011 Soil	51114-14 10/0.5 27/01/2011 Soil	51114-16 29/0.2 27/01/2011 Soil	51114-18 30/0.2 27/01/2011 Soil
Date prepared	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Moisture	%	5.1	15	17	9.4	11

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-19 30/0.5 27/01/2011 Soil	51114-21 28/0.2 27/01/2011 Soil	51114-22 28/0.5 27/01/2011 Soil	51114-23 27/0.2 27/01/2011 Soil	51114-25 7/0.2 27/01/2011 Soil
Date prepared	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Moisture	%	13	11	13	11	13

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-26 7/0.5 27/01/2011 Soil	51114-27 6/0.2 27/01/2011 Soil	51114-30 1/0.2 27/01/2011 Soil	51114-31 1/0.5 27/01/2011 Soil	51114-32 22/0.2 27/01/2011 Soil
Date prepared	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Moisture	%	16	6.9	9.8	12	12

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-33 22/0.5 27/01/2011 Soil	51114-34 5/0.2 25/01/2011 Soil	51114-35 5/0.5 25/01/2011 Soil	51114-37 14/0.2 25/01/2011 Soil	51114-40 16/0.2 25/01/2011 Soil
Date prepared	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Moisture	%	13	13	16	10	8.1

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-42 16/1.0 25/01/2011 Soil	51114-43 15/0.2 25/01/2011 Soil	51114-46 12/0.2 25/01/2011 Soil	51114-47 12/0.5 25/01/2011 Soil	51114-49 3/0.2 25/01/2011 Soil
Date prepared	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Moisture	%	12	8.3	15	15	8.7

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-51 3/1.0 25/01/2011 Soil	51114-52 2/0.2 25/01/2011 Soil	51114-55 4/0.2 25/01/2011 Soil	51114-58 25/0.2 24/01/2011 Soil	51114-61 24/0.2 24/01/2011 Soil
Date prepared	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Moisture	%	14	13	4.8	22	7.1

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-62 24/0.5 24/01/2011 Soil	51114-64 23/0.2 24/01/2011 Soil	51114-69 17/0.2 24/01/2011 Soil	51114-72 21/0.2 24/01/2011 Soil	51114-75 20/0.2 24/01/2011 Soil
Date prepared	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Moisture	%	16	15	9.0	15	12

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-76 20/0.5 24/01/2011 Soil	51114-78 19/0.2 24/01/2011 Soil	51114-81 13/0.2 24/01/2011 Soil	51114-82 13/0.5 24/01/2011 Soil	51114-84 18/0.2 24/01/2011 Soil
Date prepared	-	31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Moisture	%	12	6.9	14	17	9.0

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	51114-85 18/0.5 24/01/2011 Soil	51114-87 BD1/240111 24/01/2011 Soil	51114-91 BD5/240111 25/01/2011 Soil
Date prepared	-	31/01/2011	31/01/2011	31/01/2011
Date analysed	-	1/02/2011	1/02/2011	1/02/2011
Moisture	%	14	14	16

Asbestos ID - soils						
Our Reference:	UNITS	51114-1	51114-4	51114-6	51114-7	51114-8
Your Reference	-----	26/0.2	26/2.0	11/0.2	11/0.5	8/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	1/2/2011	1/2/2011	1/2/2011	1/2/2011	1/2/2011
Sample Description	-	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	51114-10	51114-13	51114-14	51114-16	51114-18
Your Reference	-----	9/0.2	10/0.2	10/0.5	29/0.2	30/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	1/2/2011	1/2/2011	1/2/2011	1/2/2011	1/2/2011
Sample Description	-	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	51114-19	51114-21	51114-22	51114-23	51114-25
Your Reference	-----	30/0.5	28/0.2	28/0.5	27/0.2	7/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	1/2/2011	1/2/2011	1/2/2011	1/2/2011	1/2/2011
Sample Description	-	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	51114-26	51114-27	51114-30	51114-31	51114-32
Your Reference	-----	7/0.5	6/0.2	1/0.2	1/0.5	22/0.2
Date Sampled	-----	27/01/2011	27/01/2011	27/01/2011	27/01/2011	27/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	1/2/2011	1/2/2011	1/2/2011	1/2/2011	1/2/2011
Sample Description	-	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	51114-33	51114-34	51114-35	51114-37	51114-40
Your Reference	-----	22/0.5	5/0.2	5/0.5	14/0.2	16/0.2
Date Sampled	-----	27/01/2011	25/01/2011	25/01/2011	25/01/2011	25/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	1/2/2011	1/2/2011	1/2/2011	1/2/2011	1/2/2011
Sample Description	-	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	51114-42	51114-43	51114-46	51114-47	51114-49
Your Reference	-----	16/1.0	15/0.2	12/0.2	12/0.5	3/0.2
Date Sampled	-----	25/01/2011	25/01/2011	25/01/2011	25/01/2011	25/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	1/2/2011	1/2/2011	1/2/2011	1/2/2011	1/2/2011
Sample Description	-	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	51114-51	51114-52	51114-55	51114-58	51114-61
Your Reference	-----	3/1.0	2/0.2	4/0.2	25/0.2	24/0.2
Date Sampled	-----	25/01/2011	25/01/2011	25/01/2011	24/01/2011	24/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	1/2/2011	1/2/2011	1/2/2011	1/2/2011	1/2/2011
Sample Description	-	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	51114-62	51114-64	51114-69	51114-72	51114-75
Your Reference	-----	24/0.5	23/0.2	17/0.2	21/0.2	20/0.2
Date Sampled	-----	24/01/2011	24/01/2011	24/01/2011	24/01/2011	24/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	1/2/2011	1/2/2011	1/2/2011	1/2/2011	1/2/2011
Sample Description	-	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	51114-76	51114-78	51114-81	51114-82	51114-84
Your Reference	-----	20/0.5	19/0.2	13/0.2	13/0.5	18/0.2
Date Sampled	-----	24/01/2011	24/01/2011	24/01/2011	24/01/2011	24/01/2011
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	1/2/2011	1/2/2011	1/2/2011	1/2/2011	1/2/2011
Sample Description	-	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock	Approx 40g Soil & Rock
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils		
Our Reference:	UNITS	51114-85
Your Reference	-----	18/0.5
Date Sampled	-----	24/01/2011
Type of sample		Soil
Date analysed	-	1/2/2011
Sample Description	-	Approx 40g Soil & Rock
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected

Method ID	Methodology Summary
GC.16	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
GC.3	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
GC.12 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
GC-5	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
GC.8	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Metals.20 ICP-AES	Determination of various metals by ICP-AES.
Metals.21 CV-AAS	Determination of Mercury by Cold Vapour AAS.
LAB.8	Moisture content determined by heating at 105 deg C for a minimum of 4 hours.
ASB.1	Asbestos ID - Qualitative identification of asbestos type fibres in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques.

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH & BTEX in Soil						Base II Duplicate II %RPD		
Date extracted	-			31/01/2011	51114-1	31/01/2011 31/01/2011	LCS-3	31/01/2011
Date analysed	-			01/02/2011	51114-1	01/02/2011 01/02/2011	LCS-3	01/02/2011
vTRH C ₆ - C ₉	mg/kg	25	GC.16	<25	51114-1	<25 <25	LCS-3	104%
Benzene	mg/kg	0.5	GC.16	<0.5	51114-1	<0.5 <0.5	LCS-3	112%
Toluene	mg/kg	0.5	GC.16	<0.5	51114-1	<0.5 <0.5	LCS-3	108%
Ethylbenzene	mg/kg	1	GC.16	<1.0	51114-1	<1.0 <1.0	LCS-3	98%
m+p-xylene	mg/kg	2	GC.16	<2.0	51114-1	<2.0 <2.0	LCS-3	100%
o-Xylene	mg/kg	1	GC.16	<1.0	51114-1	<1.0 <1.0	LCS-3	98%
Surrogate aaa-Trifluorotoluene	%		GC.16	107	51114-1	102 109 RPD: 7	LCS-3	110%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTRH in Soil (C ₁₀ -C ₃₆)						Base II Duplicate II %RPD		
Date extracted	-			31/01/2011	51114-1	31/01/2011 31/01/2011	LCS-3	31/01/2011
Date analysed	-			02/02/2011	51114-1	31/01/2011 31/01/2011	LCS-3	02/02/2011
TRH C ₁₀ - C ₁₄	mg/kg	50	GC.3	<50	51114-1	<50 <50	LCS-3	87%
TRH C ₁₅ - C ₂₈	mg/kg	100	GC.3	<100	51114-1	<100 <100	LCS-3	100%
TRH C ₂₉ - C ₃₆	mg/kg	100	GC.3	<100	51114-1	<100 <100	LCS-3	95%
Surrogate o-Terphenyl	%		GC.3	101	51114-1	100 98 RPD: 2	LCS-3	97%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			31/01/2011	51114-1	31/01/2011 31/01/2011	LCS-3	31/01/2011
Date analysed	-			31/01/2011	51114-1	31/01/2011 31/01/2011	LCS-3	31/01/2011
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	51114-1	<0.1 <0.1	LCS-3	87%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	51114-1	<0.1 <0.1	LCS-3	92%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	51114-1	<0.1 <0.1	LCS-3	104%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	GC.12 subset	<0.1	51114-1	<0.1 <0.1	LCS-3	98%
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	51114-1	<0.1 <0.1	LCS-3	104%
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	51114-1	<0.1 <0.1	LCS-3	116%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	51114-1	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	51114-1	<0.05 <0.05	LCS-3	97%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12 subset	96	51114-1	93 90 RPD: 3	LCS-3	89%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Date extracted	-			31/01/2011	51114-1	31/01/2011 31/01/2011	LCS-3	31/01/2011
Date analysed	-			01/02/2011	51114-1	01/02/2011 01/02/2011	LCS-3	01/02/2011
HCB	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	LCS-3	110%
gamma-BHC	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	LCS-3	116%
Heptachlor	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	LCS-3	93%
delta-BHC	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	LCS-3	107%
Heptachlor Epoxide	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	LCS-3	121%
gamma-Chlordane	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	LCS-3	120%
Dieldrin	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	LCS-3	135%
Endrin	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	LCS-3	111%
pp-DDD	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	LCS-3	120%
Endosulfan II	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	LCS-3	127%
Methoxychlor	mg/kg	0.1	GC-5	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		GC-5	124	51114-1	137 126 RPD: 8	LCS-3	128%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			31/01/2011	51114-1	31/01/2011 31/01/2011	LCS-3	31/01/2011
Date analysed	-			01/02/2011	51114-1	01/02/2011 01/02/2011	LCS-3	01/02/2011
Diazinon	mg/kg	0.1	GC.8	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	0.1	GC.8	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	0.1	GC.8	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	0.1	GC.8	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	GC.8	<0.1	51114-1	<0.1 <0.1	LCS-3	114%
Fenitrothion	mg/kg	0.1	GC.8	<0.1	51114-1	<0.1 <0.1	LCS-3	129%
Bromophos-ethyl	mg/kg	0.1	GC.8	<0.1	51114-1	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	GC.8	<0.1	51114-1	<0.1 <0.1	LCS-3	120%
Surrogate TCLMX	%		GC.8	124	51114-1	137 126 RPD: 8	LCS-3	120%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			01/02/2011	51114-1	01/02/2011 01/02/2011	LCS-1	01/02/2011
Date analysed	-			01/02/2011	51114-1	01/02/2011 01/02/2011	LCS-1	01/02/2011
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4	51114-1	9 11 RPD: 20	LCS-1	101%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	51114-1	<0.5 <0.5	LCS-1	103%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1	51114-1	21 21 RPD: 0	LCS-1	105%
Copper	mg/kg	1	Metals.20 ICP-AES	<1	51114-1	23 20 RPD: 14	LCS-1	104%
Lead	mg/kg	1	Metals.20 ICP-AES	<1	51114-1	23 27 RPD: 16	LCS-1	103%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	51114-1	<0.1 <0.1	LCS-1	93%
Nickel	mg/kg	1	Metals.20 ICP-AES	<1	51114-1	11 12 RPD: 9	LCS-1	105%
Zinc	mg/kg	1	Metals.20 ICP-AES	<1	51114-1	43 42 RPD: 2	LCS-1	105%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			31/01/2011
Date analysed	-			01/02/2011
Moisture	%	0.1	LAB.8	<0.10
QUALITY CONTROL Asbestos ID - soils	UNITS	PQL	METHOD	Blank
Date analysed	-			[NT]

QUALITY CONTROL vTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-19	31/01/2011 31/01/2011	LCS-4	31/01/2011
Date analysed	-	51114-19	01/02/2011 01/02/2011	LCS-4	01/02/2011
vTRH C ₆ - C ₉	mg/kg	51114-19	<25 <25	LCS-4	96%
Benzene	mg/kg	51114-19	<0.5 <0.5	LCS-4	79%
Toluene	mg/kg	51114-19	<0.5 <0.5	LCS-4	74%
Ethylbenzene	mg/kg	51114-19	<1.0 <1.0	LCS-4	105%
m+p-xylene	mg/kg	51114-19	<2.0 <2.0	LCS-4	111%
o-Xylene	mg/kg	51114-19	<1.0 <1.0	LCS-4	107%
Surrogate aaa-Trifluorotoluene	%	51114-19	74 74 RPD: 0	LCS-4	74%
QUALITY CONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-19	31/01/2011 31/01/2011	LCS-4	31/01/2011
Date analysed	-	51114-19	31/01/2011 31/01/2011	LCS-4	31/01/2011
TRH C ₁₀ - C ₁₄	mg/kg	51114-19	<50 <50	LCS-4	87%
TRH C ₁₅ - C ₂₈	mg/kg	51114-19	<100 <100	LCS-4	101%
TRH C ₂₉ - C ₃₆	mg/kg	51114-19	<100 <100	LCS-4	96%
Surrogate o-Terphenyl	%	51114-19	99 100 RPD: 1	LCS-4	96%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-19	31/01/2011 31/01/2011	LCS-4	31/01/2011
Date analysed	-	51114-19	31/01/2011 31/01/2011	LCS-4	31/01/2011
Naphthalene	mg/kg	51114-19	<0.1 <0.1	LCS-4	99%
Acenaphthylene	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	51114-19	<0.1 <0.1	LCS-4	104%
Phenanthrene	mg/kg	51114-19	<0.1 <0.1	LCS-4	117%
Anthracene	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	51114-19	<0.1 <0.1	LCS-4	111%
Pyrene	mg/kg	51114-19	<0.1 <0.1	LCS-4	118%
Benzo(a)anthracene	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	51114-19	<0.1 <0.1	LCS-4	131%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Benzo(b+k)fluoranthene	mg/kg	51114-19	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	51114-19	<0.05 <0.05	LCS-4	110%
Indeno(1,2,3-c,d)pyrene	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	51114-19	88 91 RPD: 3	LCS-4	101%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-19	31/01/2011 31/01/2011	LCS-4	31/01/2011
Date analysed	-	51114-19	01/02/2011 01/02/2011	LCS-4	01/02/2011
HCB	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	51114-19	<0.1 <0.1	LCS-4	102%
gamma-BHC	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	51114-19	<0.1 <0.1	LCS-4	95%
Heptachlor	mg/kg	51114-19	<0.1 <0.1	LCS-4	110%
delta-BHC	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	51114-19	<0.1 <0.1	LCS-4	105%
Heptachlor Epoxide	mg/kg	51114-19	<0.1 <0.1	LCS-4	119%
gamma-Chlordane	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	51114-19	<0.1 <0.1	LCS-4	97%
Dieldrin	mg/kg	51114-19	<0.1 <0.1	LCS-4	124%
Endrin	mg/kg	51114-19	<0.1 <0.1	LCS-4	120%
pp-DDD	mg/kg	51114-19	<0.1 <0.1	LCS-4	104%
Endosulfan II	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	51114-19	<0.1 <0.1	LCS-4	122%
Methoxychlor	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	51114-19	119 119 RPD: 0	LCS-4	118%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-19	31/01/2011 31/01/2011	LCS-4	31/01/2011
Date analysed	-	51114-19	01/02/2011 01/02/2011	LCS-4	01/02/2011
Diazinon	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	51114-19	<0.1 <0.1	LCS-4	104%
Fenitrothion	mg/kg	51114-19	<0.1 <0.1	LCS-4	113%
Bromophos-ethyl	mg/kg	51114-19	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	51114-19	<0.1 <0.1	LCS-4	98%
Surrogate TCLMX	%	51114-19	119 119 RPD: 0	LCS-4	109%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	51114-19	01/02/2011 01/02/2011	LCS-2	01/02/2011
Date analysed	-	51114-19	01/02/2011 01/02/2011	LCS-2	01/02/2011
Arsenic	mg/kg	51114-19	6 6 RPD: 0	LCS-2	106%
Cadmium	mg/kg	51114-19	<0.5 <0.5	LCS-2	108%
Chromium	mg/kg	51114-19	19 19 RPD: 0	LCS-2	109%
Copper	mg/kg	51114-19	27 28 RPD: 4	LCS-2	104%
Lead	mg/kg	51114-19	26 22 RPD: 17	LCS-2	107%
Mercury	mg/kg	51114-19	<0.1 <0.1	LCS-2	94%
Nickel	mg/kg	51114-19	11 11 RPD: 0	LCS-2	110%
Zinc	mg/kg	51114-19	42 48 RPD: 13	LCS-2	109%
QUALITY CONTROL vTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-33	31/01/2011 31/01/2011	LCS-5	31/01/2011
Date analysed	-	51114-33	01/02/2011 01/02/2011	LCS-5	01/02/2011
vTRH C ₆ - C ₉	mg/kg	51114-33	<25 <25	LCS-5	91%
Benzene	mg/kg	51114-33	<0.5 <0.5	LCS-5	76%
Toluene	mg/kg	51114-33	<0.5 <0.5	LCS-5	72%
Ethylbenzene	mg/kg	51114-33	<1.0 <1.0	LCS-5	100%
m+p-xylene	mg/kg	51114-33	<2.0 <2.0	LCS-5	104%
o-Xylene	mg/kg	51114-33	<1.0 <1.0	LCS-5	102%
Surrogate aaa-Trifluorotoluene	%	51114-33	78 73 RPD: 7	LCS-5	71%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-33	31/01/2011 31/01/2011	LCS-5	31/01/2011
Date analysed	-	51114-33	31/01/2011 31/01/2011	LCS-5	31/01/2011
TRH C10 - C14	mg/kg	51114-33	<50 <50	LCS-5	87%
TRH C15 - C28	mg/kg	51114-33	<100 <100	LCS-5	97%
TRH C29 - C36	mg/kg	51114-33	<100 <100	LCS-5	94%
Surrogate o-Terphenyl	%	51114-33	94 99 RPD: 5	LCS-5	95%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-33	31/01/2011 31/01/2011	LCS-5	31/01/2011
Date analysed	-	51114-33	31/01/2011 31/01/2011	LCS-5	31/01/2011
Naphthalene	mg/kg	51114-33	<0.1 <0.1	LCS-5	86%
Acenaphthylene	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	51114-33	<0.1 <0.1	LCS-5	91%
Phenanthrene	mg/kg	51114-33	<0.1 <0.1	LCS-5	100%
Anthracene	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	51114-33	<0.1 <0.1	LCS-5	94%
Pyrene	mg/kg	51114-33	<0.1 <0.1	LCS-5	100%
Benzo(a)anthracene	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	51114-33	<0.1 <0.1	LCS-5	107%
Benzo(b+k)fluoranthene	mg/kg	51114-33	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	51114-33	<0.05 <0.05	LCS-5	89%
Indeno(1,2,3-c,d)pyrene	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	51114-33	90 93 RPD: 3	LCS-5	93%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-33	31/01/2011 31/01/2011	LCS-5	31/01/2011
Date analysed	-	51114-33	01/02/2011 01/02/2011	LCS-5	01/02/2011
HCB	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	51114-33	<0.1 <0.1	LCS-5	109%
gamma-BHC	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	51114-33	<0.1 <0.1	LCS-5	100%
Heptachlor	mg/kg	51114-33	<0.1 <0.1	LCS-5	117%
delta-BHC	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	51114-33	<0.1 <0.1	LCS-5	111%
Heptachlor Epoxide	mg/kg	51114-33	<0.1 <0.1	LCS-5	126%
gamma-Chlordane	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	51114-33	<0.1 <0.1	LCS-5	103%
Dieldrin	mg/kg	51114-33	<0.1 <0.1	LCS-5	132%
Endrin	mg/kg	51114-33	<0.1 <0.1	LCS-5	127%
pp-DDD	mg/kg	51114-33	<0.1 <0.1	LCS-5	110%
Endosulfan II	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	51114-33	<0.1 <0.1	LCS-5	128%
Methoxychlor	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	51114-33	110 124 RPD: 12	LCS-5	116%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-33	31/01/2011 31/01/2011	LCS-5	31/01/2011
Date analysed	-	51114-33	01/02/2011 01/02/2011	LCS-5	01/02/2011
Diazinon	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	51114-33	<0.1 <0.1	LCS-5	129%
Fenitrothion	mg/kg	51114-33	<0.1 <0.1	LCS-5	108%
Bromophos-ethyl	mg/kg	51114-33	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	51114-33	<0.1 <0.1	LCS-5	120%
Surrogate TCLMX	%	51114-33	110 124 RPD: 12	LCS-5	114%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	51114-33	01/02/2011 01/02/2011	LCS-3	01/02/2011
Date analysed	-	51114-33	01/02/2011 01/02/2011	LCS-3	01/02/2011
Arsenic	mg/kg	51114-33	7 7 RPD: 0	LCS-3	106%
Cadmium	mg/kg	51114-33	<0.5 <0.5	LCS-3	106%
Chromium	mg/kg	51114-33	17 17 RPD: 0	LCS-3	108%
Copper	mg/kg	51114-33	22 22 RPD: 0	LCS-3	101%
Lead	mg/kg	51114-33	20 20 RPD: 0	LCS-3	107%
Mercury	mg/kg	51114-33	<0.1 <0.1	LCS-3	90%
Nickel	mg/kg	51114-33	8 8 RPD: 0	LCS-3	108%
Zinc	mg/kg	51114-33	32 32 RPD: 0	LCS-3	108%
QUALITY CONTROL vTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-51	31/01/2011 31/01/2011	51114-4	31/01/2011
Date analysed	-	51114-51	01/02/2011 01/02/2011	51114-4	01/02/2011
vTRH C ₆ - C ₉	mg/kg	51114-51	<25 <25	51114-4	89%
Benzene	mg/kg	51114-51	<0.5 <0.5	51114-4	97%
Toluene	mg/kg	51114-51	<0.5 <0.5	51114-4	93%
Ethylbenzene	mg/kg	51114-51	<1.0 <1.0	51114-4	83%
m+p-xylene	mg/kg	51114-51	<2.0 <2.0	51114-4	86%
o-Xylene	mg/kg	51114-51	<1.0 <1.0	51114-4	84%
Surrogate aaa-Trifluorotoluene	%	51114-51	75 73 RPD: 3	51114-4	112%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-51	31/01/2011 31/01/2011	51114-4	31/01/2011
Date analysed	-	51114-51	31/01/2011 31/01/2011	51114-4	02/02/2011
TRH C ₁₀ - C ₁₄	mg/kg	51114-51	<50 <50	51114-4	91%
TRH C ₁₅ - C ₂₈	mg/kg	51114-51	<100 <100	51114-4	106%
TRH C ₂₉ - C ₃₆	mg/kg	51114-51	<100 <100	51114-4	100%
Surrogate o-Terphenyl	%	51114-51	96 96 RPD: 0	51114-4	101%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-51	31/01/2011 31/01/2011	51114-4	31/01/2011
Date analysed	-	51114-51	31/01/2011 31/01/2011	51114-4	31/01/2011
Naphthalene	mg/kg	51114-51	<0.1 <0.1	51114-4	88%
Acenaphthylene	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	51114-51	<0.1 <0.1	51114-4	93%
Phenanthrene	mg/kg	51114-51	<0.1 <0.1	51114-4	105%
Anthracene	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	51114-51	<0.1 <0.1	51114-4	99%
Pyrene	mg/kg	51114-51	<0.1 <0.1	51114-4	104%
Benzo(a)anthracene	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	51114-51	<0.1 <0.1	51114-4	116%
Benzo(b+k)fluoranthene	mg/kg	51114-51	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	51114-51	<0.05 <0.05	51114-4	98%
Indeno(1,2,3-c,d)pyrene	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d ₁₄	%	51114-51	98 102 RPD: 4	51114-4	90%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-51	31/01/2011 31/01/2011	51114-4	31/01/2011
Date analysed	-	51114-51	01/02/2011 01/02/2011	51114-4	01/02/2011
HCB	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	51114-51	<0.1 <0.1	51114-4	103%
gamma-BHC	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	51114-51	<0.1 <0.1	51114-4	109%
Heptachlor	mg/kg	51114-51	<0.1 <0.1	51114-4	90%
delta-BHC	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	51114-51	<0.1 <0.1	51114-4	100%
Heptachlor Epoxide	mg/kg	51114-51	<0.1 <0.1	51114-4	113%
gamma-Chlordane	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	51114-51	<0.1 <0.1	51114-4	111%
Dieldrin	mg/kg	51114-51	<0.1 <0.1	51114-4	126%
Endrin	mg/kg	51114-51	<0.1 <0.1	51114-4	99%
pp-DDD	mg/kg	51114-51	<0.1 <0.1	51114-4	111%
Endosulfan II	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	51114-51	<0.1 <0.1	51114-4	117%
Methoxychlor	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	51114-51	113 123 RPD: 8	51114-4	127%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-51	31/01/2011 31/01/2011	51114-4	31/01/2011
Date analysed	-	51114-51	01/02/2011 01/02/2011	51114-4	01/02/2011
Diazinon	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	51114-51	<0.1 <0.1	51114-4	126%
Fenitrothion	mg/kg	51114-51	<0.1 <0.1	51114-4	140%
Bromophos-ethyl	mg/kg	51114-51	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	51114-51	<0.1 <0.1	51114-4	138%
Surrogate TCLMX	%	51114-51	113 123 RPD: 8	51114-4	140%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	51114-51	01/02/2011 01/02/2011	51114-4	01/02/2011
Date analysed	-	51114-51	01/02/2011 01/02/2011	51114-4	01/02/2011
Arsenic	mg/kg	51114-51	6 7 RPD: 15	51114-4	100%
Cadmium	mg/kg	51114-51	<0.5 <0.5	51114-4	99%
Chromium	mg/kg	51114-51	14 14 RPD: 0	51114-4	106%
Copper	mg/kg	51114-51	19 19 RPD: 0	51114-4	103%
Lead	mg/kg	51114-51	16 17 RPD: 6	51114-4	96%
Mercury	mg/kg	51114-51	<0.1 <0.1	51114-4	98%
Nickel	mg/kg	51114-51	9 9 RPD: 0	51114-4	100%
Zinc	mg/kg	51114-51	27 26 RPD: 4	51114-4	98%
QUALITY CONTROL vTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-78	31/01/2011 31/01/2011	51114-34	31/01/2011
Date analysed	-	51114-78	01/02/2011 01/02/2011	51114-34	01/02/2011
vTRH C ₆ - C ₉	mg/kg	51114-78	<25 <25	51114-34	94%
Benzene	mg/kg	51114-78	<0.5 <0.5	51114-34	77%
Toluene	mg/kg	51114-78	<0.5 <0.5	51114-34	75%
Ethylbenzene	mg/kg	51114-78	<1.0 <1.0	51114-34	104%
m+p-xylene	mg/kg	51114-78	<2.0 <2.0	51114-34	108%
o-Xylene	mg/kg	51114-78	<1.0 <1.0	51114-34	106%
Surrogate aaa-Trifluorotoluene	%	51114-78	79 81 RPD: 2	51114-34	87%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-78	31/01/2011 31/01/2011	51114-34	31/01/2011
Date analysed	-	51114-78	31/01/2011 31/01/2011	51114-34	31/01/2011
TRH C ₁₀ - C ₁₄	mg/kg	51114-78	<50 <50	51114-34	88%
TRH C ₁₅ - C ₂₈	mg/kg	51114-78	<100 <100	51114-34	102%
TRH C ₂₉ - C ₃₆	mg/kg	51114-78	<100 <100	51114-34	95%
Surrogate o-Terphenyl	%	51114-78	97 99 RPD: 2	51114-34	97%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-78	31/01/2011 31/01/2011	51114-34	31/01/2011
Date analysed	-	51114-78	31/01/2011 31/01/2011	51114-34	31/01/2011
Naphthalene	mg/kg	51114-78	<0.1 <0.1	51114-34	76%
Acenaphthylene	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	51114-78	<0.1 <0.1	51114-34	91%
Phenanthrene	mg/kg	51114-78	<0.1 <0.1	51114-34	100%
Anthracene	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	51114-78	<0.1 <0.1	51114-34	95%
Pyrene	mg/kg	51114-78	<0.1 <0.1	51114-34	100%
Benzo(a)anthracene	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	51114-78	<0.1 <0.1	51114-34	106%
Benzo(b+k)fluoranthene	mg/kg	51114-78	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	51114-78	<0.05 <0.05	51114-34	92%
Indeno(1,2,3-c,d)pyrene	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d ₁₄	%	51114-78	101 100 RPD: 1	51114-34	96%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-78	31/01/2011 31/01/2011	51114-34	31/01/2011
Date analysed	-	51114-78	01/02/2011 01/02/2011	51114-34	01/02/2011
HCB	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	51114-78	<0.1 <0.1	51114-34	106%
gamma-BHC	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	51114-78	<0.1 <0.1	51114-34	100%
Heptachlor	mg/kg	51114-78	<0.1 <0.1	51114-34	108%
delta-BHC	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	51114-78	<0.1 <0.1	51114-34	109%
Heptachlor Epoxide	mg/kg	51114-78	<0.1 <0.1	51114-34	126%
gamma-Chlordane	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	51114-78	<0.1 <0.1	51114-34	104%
Dieldrin	mg/kg	51114-78	<0.1 <0.1	51114-34	133%
Endrin	mg/kg	51114-78	<0.1 <0.1	51114-34	124%
pp-DDD	mg/kg	51114-78	<0.1 <0.1	51114-34	111%
Endosulfan II	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	51114-78	<0.1 <0.1	51114-34	125%
Methoxychlor	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	51114-78	111 120 RPD: 8	51114-34	105%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	51114-78	31/01/2011 31/01/2011	51114-34	31/01/2011
Date analysed	-	51114-78	01/02/2011 01/02/2011	51114-34	01/02/2011
Diazinon	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	51114-78	<0.1 <0.1	51114-34	87%
Fenitrothion	mg/kg	51114-78	<0.1 <0.1	51114-34	93%
Bromophos-ethyl	mg/kg	51114-78	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	51114-78	<0.1 <0.1	51114-34	110%
Surrogate TCLMX	%	51114-78	111 120 RPD: 8	51114-34	119%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	51114-78	01/02/2011 01/02/2011	51114-34	01/02/2011
Date analysed	-	51114-78	01/02/2011 01/02/2011	51114-34	01/02/2011
Arsenic	mg/kg	51114-78	8 8 RPD: 0	51114-34	102%
Cadmium	mg/kg	51114-78	<0.5 <0.5	51114-34	104%
Chromium	mg/kg	51114-78	37 25 RPD: 39	51114-34	106%
Copper	mg/kg	51114-78	13 12 RPD: 8	51114-34	107%
Lead	mg/kg	51114-78	22 22 RPD: 0	51114-34	103%
Mercury	mg/kg	51114-78	<0.1 <0.1	51114-34	102%
Nickel	mg/kg	51114-78	9 9 RPD: 0	51114-34	104%
Zinc	mg/kg	51114-78	27 23 RPD: 16	51114-34	103%
QUALITY CONTROL vTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	51114-81	31/01/2011
Date analysed	-	[NT]	[NT]	51114-81	01/02/2011
vTRH C ₆ - C ₉	mg/kg	[NT]	[NT]	51114-81	86%
Benzene	mg/kg	[NT]	[NT]	51114-81	72%
Toluene	mg/kg	[NT]	[NT]	51114-81	68%
Ethylbenzene	mg/kg	[NT]	[NT]	51114-81	94%
m+p-xylene	mg/kg	[NT]	[NT]	51114-81	99%
o-Xylene	mg/kg	[NT]	[NT]	51114-81	96%
Surrogate aaa-Trifluorotoluene	%	[NT]	[NT]	51114-81	80%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	51114-81	31/01/2011
Date analysed	-	[NT]	[NT]	51114-81	31/01/2011
TRH C10 - C14	mg/kg	[NT]	[NT]	51114-81	91%
TRH C15 - C28	mg/kg	[NT]	[NT]	51114-81	101%
TRH C29 - C36	mg/kg	[NT]	[NT]	51114-81	95%
Surrogate o-Terphenyl	%	[NT]	[NT]	51114-81	96%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	51114-81	31/01/2011
Date analysed	-	[NT]	[NT]	51114-81	31/01/2011
Naphthalene	mg/kg	[NT]	[NT]	51114-81	85%
Acenaphthylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	[NT]	[NT]	51114-81	92%
Phenanthrene	mg/kg	[NT]	[NT]	51114-81	102%
Anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	[NT]	[NT]	51114-81	95%
Pyrene	mg/kg	[NT]	[NT]	51114-81	101%
Benzo(a)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	[NT]	[NT]	51114-81	112%
Benzo(b+k)fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	[NT]	[NT]	51114-81	90%
Indeno(1,2,3-c,d)pyrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	[NT]	[NT]	51114-81	103%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	51114-81	31/01/2011
Date analysed	-	[NT]	[NT]	51114-81	01/02/2011
HCB	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	[NT]	[NT]	51114-81	109%
gamma-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	[NT]	[NT]	51114-81	100%
Heptachlor	mg/kg	[NT]	[NT]	51114-81	117%
delta-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	[NT]	[NT]	51114-81	111%
Heptachlor Epoxide	mg/kg	[NT]	[NT]	51114-81	126%
gamma-Chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	[NT]	[NT]	51114-81	103%
Dieldrin	mg/kg	[NT]	[NT]	51114-81	132%
Endrin	mg/kg	[NT]	[NT]	51114-81	127%
pp-DDD	mg/kg	[NT]	[NT]	51114-81	110%
Endosulfan II	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	[NT]	[NT]	51114-81	128%
Methoxychlor	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%	[NT]	[NT]	51114-81	116%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	51114-81	31/01/2011
Date analysed	-	[NT]	[NT]	51114-81	01/02/2011
Diazinon	mg/kg	[NT]	[NT]	[NR]	[NR]
Dimethoate	mg/kg	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Ronnel	mg/kg	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos	mg/kg	[NT]	[NT]	51114-81	108%
Fenitrothion	mg/kg	[NT]	[NT]	51114-81	118%
Bromophos-ethyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	[NT]	[NT]	51114-81	96%
Surrogate TCLMX	%	[NT]	[NT]	51114-81	138%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	[NT]	[NT]	51114-81	01/02/2011
Date analysed	-	[NT]	[NT]	51114-81	01/02/2011
Arsenic	mg/kg	[NT]	[NT]	51114-81	104%
Cadmium	mg/kg	[NT]	[NT]	51114-81	97%
Chromium	mg/kg	[NT]	[NT]	51114-81	107%
Copper	mg/kg	[NT]	[NT]	51114-81	104%
Lead	mg/kg	[NT]	[NT]	51114-81	103%
Mercury	mg/kg	[NT]	[NT]	51114-81	87%
Nickel	mg/kg	[NT]	[NT]	51114-81	102%
Zinc	mg/kg	[NT]	[NT]	51114-81	102%

Report Comments:

Asbestos: A portion of the supplied sample was sub-sampled for asbestos according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab recommends supplying 30-40g of sample in it's own container.

Asbestos ID was analysed by Approved Identifier: Matt Mansfield

Asbestos ID was authorised by Approved Signatory: Matt Mansfield

INS: Insufficient sample for this test

PQL: Practical Quantitation Limit

NT: Not tested

NA: Test not required

RPD: Relative Percent Difference

NA: Test not required

<: Less than

>: Greater than

LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batched of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

Project Name: Contamination Assessment		To: Envirolab Services	
Project No: 40740.98	Sampler: BAH	12 Ashley Street, Chatswood NSW 2067	
Project Mgr: CCK	Mob. Phone: 0413 886 065	Attn: Tania Notaras	
Email: chris.kline@douglaspartners.com.au		Phone: (02) 9910 6200	Fax: (02) 9910 6201
Date Required: Standard		Email: tnotaras@envirolabservices.com.au	

Sample ID	Lab ID	Sampling Date	Sample Type	Container Type	Analytes									Notes/preservation
			S - soil W - water	G - glass P - plastic	8 Heavy Metals	As Cd Cr Pb Hg Ni	TPH BTEX	PAH	Phenol	OCP/OPP PCB	VOC	Asbestos	pH	
26/0.2	1	27/01/2011	S	G & P	X		X	X		X		X		
26/0.5	2	27/01/2011	S	G & P										
26/1.0	3	27/01/2011	S	G & P										
26/2.0	4	27/01/2011	S	G & P	X		X	X		X		X		
26/3.0	5	27/01/2011	S	G & P										
11/0.2	6	27/01/2011	S	G & P	X		X	X		X		X		
11/0.5	7	27/01/2011	S	G & P	X		X	X		X		X		
8/0.2	8	27/01/2011	S	G & P	X		X	X		X		X		
8/0.5	9	27/01/2011	S	G & P										
9/0.2	10	27/01/2011	S	G & P	X		X	X		X		X		
9/0.5	11	27/01/2011	S	G & P										
9/1.0	12	27/01/2011	S	G & P										
10/0.2	13	27/01/2011	S	G & P	X		X	X		X		X		

Envirolab

Envirolab

Envirolab Services

12 Ashley St

Chatswood NSW 2067

Ph: 9910 6200

Lab No: 51114

Date received: 28/1/11

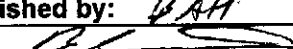
Time received: 5:30pm

Received by: WMP

Temp: Cool Ambient

Storing: In room

Security: Locked room

Lab Report No:		Send Results to: Douglas Partners Pty Ltd		Address: Unit 5, 50 Topham Road, Smeaton Grange 2567		Phone: (02) 4647 0075		Fax: (02) 4646 1886	
Relinquished by: BAH				Transported to laboratory by:					
Signed: 				Date & Time: 28-1-11 12:20		Received by: WMP 28/1/11 5:30pm			

Project Name: Contamination Assessment		To: Envirolab Services	
Project No: 40740.98	Sampler: BAH	12 Ashley Street, Chatswood NSW 2067	
Project Mgr: CCK	Mob. Phone: 0413 886 065	Attn: Tania Notaras	
Email: chris.kline@douglaspartners.com.au		Phone: (02) 9910 6200	Fax: (02) 9910 6201
Date Required: Standard		Email: tnotaras@envirolabservices.com.au	

Sample ID	Lab ID	Sampling Date	Sample Type	Container Type	Analytes									Notes/preservation
			S - soil W - water	G - glass P - plastic	8 Heavy Metals	As Cd Cr Pb Hg Ni	TEH BTEX	PAH	Phenol	OCP/OPP PCB	VOC	Asbestos	pH	
10 / 0.5	14	27/01/2011	S	G & P	X		X	X		X		X		
10 / 1.0	15	27/01/2011	S	G & P										
29 / 0.2	16	27/01/2011	S	G & P	X		X	X	/	X		X		
29 / 0.5	17	27/01/2011	S	G & P										
30 / 0.2	18	27/01/2011	S	G & P	X		X	X		X		X		
30 / 0.5	19	27/01/2011	S	G & P	X		X	X		X		X		
30 / 1.0	20	27/01/2011	S	G & P										
28 / 0.2	21	27/01/2011	S	G & P	X		X	X		X		X		
28 / 0.5	22	27/01/2011	S	G & P	X		X	X		X		X		
27 / 0.2	23	27/01/2011	S	G & P	X		X	X		X		X		
27 / 0.5	24	27/01/2011	S	G & P										
7 / 0.2	25	27/01/2011	S	G & P	X		X	X		X		X		
7 / 0.5	26	27/01/2011	S	G & P	X		X	X		X		X		

Lab Report No:			
Send Results to: Douglas Partners Pty Ltd	Address: Unit 5, 50 Topham Road, Smeaton Grange 2567	Phone: (02) 4647 0075	Fax: (02) 4646 1886
Relinquished by: BAH		Transported to laboratory by:	
Signed: 	Date & Time: 28-1-11	Received by: WP 28/1/11 5:30 pm	

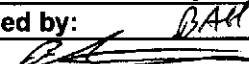
Project Name: Contamination Assessment		To: Envirolab Services	
Project No: 40740.98	Sampler: BAH	12 Ashley Street, Chatswood NSW 2067	
Project Mgr: CCK	Mob. Phone: 0413 886 065	Attn: Tania Notaras	
Email: chris.kline@douglaspartners.com.au		Phone: (02) 9910 6200	Fax: (02) 9910 6201
Date Required: Standard		Email: tnotaras@envirolabservices.com.au	

Sample ID	Lab ID	Sampling Date	Sample Type	Container Type	Analytes									Notes/preservation
			S - soil W - water	G - glass P - plastic	8 Heavy Metals	As Cd Cr Pb Hg Ni	TPH BTEX	PAH	Phenol	OCP/OPP	VOC	Asbestos	pH	
6/0.2	27	27/01/2011	S	G & P	X		X	X		X		X		
6/0.5	28	27/01/2011	S	G & P										
6/1.0	29	27/01/2011	S	G & P										
1/0.2	30	27/01/2011	S	G & P	X		X	X		X		X		
1/0.5	31	27/01/2011	S	G & P	X		X	X		X		X		
22/0.2	32	27/01/2011	S	G & P	X		X	X		X		X		
22/0.5	33	27/01/2011	S	G & P	X		X	X		X		X		
5/0.2	34	25/01/2011	S	G & P	X		X	X		X		X		
5/0.5	35	25/01/2011	S	G & P	X		X	X		X		X		
5/1.0	36	25/01/2011	S	G & P										
14/0.2	37	25/01/2011	S	G & P	X		X	X		X		X		
14/0.5	38	25/01/2011	S	G & P										
14/1.0	39	25/01/2011	S	G & P										

Lab Report No:			
Send Results to: Douglas Partners Pty Ltd	Address: Unit 5, 50 Topham Road, Smeaton Grange 2567	Phone: (02) 4647 0075	Fax: (02) 4646 1886
Relinquished by: BAH		Transported to laboratory by:	
Signed: 	Date & Time: 28-1-11	Received by: MP 28/1/11 5:30pm	

Project Name: Contamination Assessment		To: Envirolab Services	
Project No: 40740.98	Sampler: BAH	12 Ashley Street, Chatswood NSW 2067	
Project Mgr: CCK	Mob. Phone: 0413 886 065	Attn: Tania Notaras	
Email: chris.kline@douglaspartners.com.au		Phone: (02) 9910 6200	Fax: (02) 9910 6201
Date Required: Standard		Email: tnotaras@envirolabservices.com.au	

Sample ID	Lab ID	Sampling Date	Sample Type	Container Type	Analytes									Notes/preservation
			S - soil W - water	G - glass P - plastic	8 Heavy Metals	As Cd Cr Pb Hg Ni	Top BTEX	PAH	Phenol	OC/OPP PPS	VOC	Asbestos	pH	
16/0.2	40	25/01/2011	S	G & P	X		X	X		X		X		
16/0.5	41	25/01/2011	S	G & P										
16/1.0	42	25/01/2011	S	G & P	X		X	X		X		X		
15/0.2	43	25/01/2011	S	G & P	X		X	X		X		X		
15/0.5	44	25/01/2011	S	G & P										
15/1.0	45	25/01/2011	S	G & P										
12/0.2	46	25/01/2011	S	G & P	X		X	X		X		X		
12/0.5	47	25/01/2011	S	G & P	X		X	X		X		X		
12/1.0	48	25/01/2011	S	G & P										
3/0.2	49	25/01/2011	S	G & P	X		X	X		X		X		
3/0.5	50	25/01/2011	S	G & P										
3/1.0	51	25/01/2011	S	G & P	X		X	X		X		X		
2/0.2	52	25/01/2011	S	G & P	X		X	X		X		X		

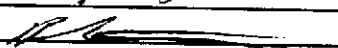
Lab Report No:			
Send Results to: Douglas Partners Pty Ltd	Address: Unit 5, 50 Topham Road, Smeaton Grange 2567	Phone: (02) 4647 0075	Fax: (02) 4646 1886
Relinquished by: BAH		Transported to laboratory by:	
Signed: 	Date & Time: 28-1-11	Received by: WJP 28/1/11 5:30 pm	

Project Name: Contamination Assessment		To: Envirolab Services	
Project No: 40740.98	Sampler: BAH	12 Ashley Street, Chatswood NSW 2067	
Project Mgr: CCK	Mob. Phone: 0413 886 065	Attn: Tania Notaras	
Email: chris.kline@douglaspartners.com.au		Phone: (02) 9910 6200	Fax: (02) 9910 6201
Date Required: Standard		Email: tnotaras@envirolabservices.com.au	

Email: tnataras@envirolabservices.com.au

Sample ID	Lab ID	Sampling Date	Sample Type	Container Type	Analytes										Notes/preservation
			S - soil W - water	G - glass P - plastic	8 Heavy Metals	As Cd Cr Pb Hg Ni	TPH BTEX	PAH	Phenol	OC/OPP POB	VOC	Asbestos	pH		
2/0.5	S3	25/01/2011	S	G & P											
3/1.0	S4	25/01/2011	S	G & P											
4/0.2	S5	25/01/2011	S	G & P	X		X	X		X		X		X	
4/0.5	S6	25/01/2011	S	G & P											
4/1.0	S7	25/01/2011	S	G & P											
25/0.2	S8	24/01/2011	S	G & P	X		X	X		X		X		X	
25/0.5	S9	24/01/2011	S	G & P											
25/1.0	60	24/01/2011	S	G & P											
24/0.2	61	24/01/2011	S	G & P	X		X	X		X		X		X	
24/0.5	62	24/01/2011	S	G & P	X		X	X		X		X		X	
24/1.0	63	24/01/2011	S	G & P											
23/0.2	64	24/01/2011	S	G & P	X		X	X		X		X		X	
23/0.5	65	24/01/2011	S	G & P											

Lab Report No:

Lab Report No:		Send Results to: Douglas Partners Pty Ltd		Address: Unit 5, 50 Topham Road, Smeaton Grange 2567		Phone: (02) 4647 0075		Fax: (02) 4646 1886	
Relinquished by: BAH		Signed: 		Date & Time: 28-1-11		Transported to laboratory by:		Received by: mmp 28/1/11 5:30 pm	

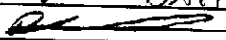
Project Name: Contamination Assessment		To: Envirolab Services	
Project No: 40740.98	Sampler: BAH	12 Ashley Street, Chatswood NSW 2067	
Project Mgr: CCK	Mob. Phone: 0413 886 065	Attn: Tania Notaras	
Email: chris.kline@douglaspartners.com.au		Phone: (02) 9910 6200	Fax: (02) 9910 6201
Date Required: Standard		Email: tnotaras@envirolabservices.com.au	

Sample ID	Lab ID	Sampling Date	Sample Type	Container Type	Analytes										Notes/preservation	
			S - soil W - water	G - glass P - plastic	8 Heavy Metals	As Cd Cr Pb Hg Ni	TPH BTEX	PAH	Phenol	OCPP/OPP	VOC	Asbestos	pH			
23/1.0	66	24/01/2011	S	G & P												
23/1.5	67	24/01/2011	S	G & P												
23/2.0	68	24/01/2011	S	G & P												
17/0.2	69	24/01/2011	S	G & P	✓			✓	✓		✓			✓		
17/0.5	70	24/01/2011	S	G & P												
17/1.0	71	24/01/2011	S	G & P												
21/0.2	72	24/01/2011	S	G & P	✓			✓	✓		✓			✓		
21/0.5	73	24/01/2011	S	G & P												
21/1.0	74	24/01/2011	S	G & P												
20/0.2	75	24/01/2011	S	G & P	✓			✓	✓		✓			✓		
20/0.5	76	24/01/2011	S	G & P	✓			✓	✓		✓			✓		
20/1.0	77	24/01/2011	S	G & P												
19/0.2	78	24/01/2011	S	G & P	✓			✓	✓		✓			✓		

Lab Report No:		Send Results to: Douglas Partners Pty Ltd		Address: Unit 5, 50 Topham Road, Smeaton Grange 2567		Phone: (02) 4647 0075		Fax: (02) 4646 1886	
Relinquished by: BAH		Signed: 		Date & Time: 28-1-11		Transported to laboratory by:		Received by: WJP 28/1/11 5:30pm	

Project Name: Contamination Assessment		To: Envirolab Services
Project No: 40740.98	Sampler: BAH	12 Ashley Street, Chatswood NSW 2067
Project Mgr: CCK	Mob. Phone: 0413 886 065	Attn: Tania Notaras
Email: chris.kline@douglaspartners.com.au		Phone: (02) 9910 6200 Fax: (02) 9910 6201
Date Required: Standard		Email: tnotaras@envirolabservices.com.au

					Email:	tnotaras@envirolabservices.com.au									
Sample ID	Lab ID	Sampling Date	Sample Type	Container Type	Analytes										Notes/preservation
			S - soil W - water	G - glass P - plastic	8 Heavy Metals	As Cd Cr Pb Hg Ni	TPH BTEX	PAH	Phenol	OCP/OPP PCB	VOC	Asbestos	pH		
19/0.5	79	24/01/2011	S	G & P											
19/1.0	80	24/01/2011	S	G & P											
13/0.2	81	24/01/2011	S	G & P	X			X	X		X		X		
13/0.5	82	24/01/2011	S	G & P	X			X	X		X		X		
13/1.0	83	24/01/2011	S	G & P											
18/0.2	84	24/01/2011	S	G & P	X			X	X		X		X		
18/0.5	85	24/01/2011	S	G & P	X			X	X		X		X		
18/1.0	86	24/01/2011	S	G & P											
B01/240111	87	24/01/2011	S	G & P	X			X	X		X				
B02/240111	88	24/01/2011	S	G & P											
B03/240111	89	24/01/2011	S	G & P											
B04/250111	90	25/01/2011	S	G & P											
B05/250111	91	25/01/2011	S	G & P	X			X	X		X				
Lab Report No:															

Lab Report No:		Send Results to: Douglas Partners Pty Ltd		Address: Unit 5, 50 Topham Road, Smeaton Grange 2567		Phone: (02) 4647 0075		Fax: (02) 4646 1886	
Relinquished by: BAH		Signed: 		Date & Time: 28-1-11		Transported to laboratory by:		Received by: WIP 28/1/11 5:30 pm	

Project Name: Contamination Assessment		To: Envirolab Services	
Project No: 40740.98	Sampler: BAH	12 Ashley Street, Chatswood NSW 2067	
Project Mgr: CCK	Mob. Phone: 0413 886 065	Attn: Tania Notaras	
Email: chris.kline@douglaspartners.com.au		Phone: (02) 9910 6200	Fax: (02) 9910 6201
Date Required: Standard		Email: tnotaras@envirolabservices.com.au	

Sample ID	Lab ID	Sampling Date	Sample Type	Container Type	Analytes										Notes/preservation	
			S - soil W - water	G - glass P - plastic	8 Heavy Metals	As Cd Cr Pb Hg Ni	TPH BTEX	PAH	Phenol	OCP/OPP PCB	VOC	Asbestos	pH			
80727011	92	27/01/2011	S	G & P												
80827011	93	27/01/2011	S	G & P												
80927011	94	27/01/2011	S	G & P												
		/01/2011	\$	G & P												
1010-05	95	/01/2011	S	G & P												
		/01/2011	\$	G & P												
		/01/2011	\$	G & P												
		/01/2011	\$	G & P												
		/01/2011	\$	G & P												
		/01/2011	\$	G & P												
		/01/2011	\$	G & P												
		/01/2011	\$	G & P												
		/01/2011	\$	G & P												
		/01/2011	\$	G & P												
		/01/2011	\$	G & P												

Lab Report No:		Send Results to: Douglas Partners Pty Ltd		Address Unit 5, 50 Topham Road, Smeaton Grange 2567		Phone: (02) 4647 0075		Fax: (02) 4646 1886	
Relinquished by: BAH		Signed: 		Date & Time: 28-1-11		Transported to laboratory by:		Received by:  28/1/11 5:30pm	



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS

51114-A

Client:

Douglas Partners Pty Ltd Smeaton Grange
Unit 5/50 Topham Rd
Smeaton Grange
NSW 2567

Attention: Bradley Harris

Sample log in details:

Your Reference:	<u>40740.98, Contamination Assessment</u>
No. of samples:	Additional Testing on 1 Soil
Date samples received / completed instructions received	28/01/2011 / 07/02/2011

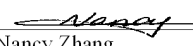
Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date: 14/02/11 / 14/02/11
Date of Preliminary Report: Not issued
NATA accreditation number 2901. This document shall not be reproduced except in full.
This document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:


Nancy Zhang
Chemist


Rhian Morgan
Reporting Supervisor



vTRH & BTEX in Soil		
Our Reference:	UNITS	51114-A-88
Your Reference	-----	BD2/240111
Date Sampled	-----	24/01/2011
Type of sample		Soil
Date extracted	-	08/02/2011
Date analysed	-	09/02/2011
vTRH C ₆ - C ₉	mg/kg	<25
Benzene	mg/kg	<0.5
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1.0
m+p-xylene	mg/kg	<2.0
o-Xylene	mg/kg	<1.0
Surrogate aaa-Trifluorotoluene	%	112

sTRH in Soil (C10-C36)		
Our Reference:	UNITS	51114-A-88
Your Reference	-----	BD2/240111
Date Sampled	-----	24/01/2011
Type of sample		Soil
Date extracted	-	08/02/2011
Date analysed	-	09/02/2011
TRH C ₁₀ - C ₁₄	mg/kg	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100
Surrogate o-Terphenyl	%	95

PAHs in Soil		
Our Reference:	UNITS	51114-A-88
Your Reference	-----	BD2/240111
Date Sampled	-----	24/01/2011
Type of sample		Soil
Date extracted	-	08/02/2011
Date analysed	-	09/02/2011
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Surrogate p- Terphenyl-d ₁₄	%	92

Organochlorine Pesticides in soil		
Our Reference:	UNITS	51114-A-88
Your Reference	-----	BD2/240111
Date Sampled	-----	24/01/2011
Type of sample		Soil
Date extracted	-	08/02/2011
Date analysed	-	09/02/2011
HCB	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Surrogate TCLMX	%	129

Organophosphorus Pesticides		
Our Reference:	UNITS	51114-A-88
Your Reference	-----	BD2/240111
Date Sampled	-----	24/01/2011
Type of sample		Soil
Date extracted	-	08/02/2011
Date analysed	-	09/02/2011
Diazinon	mg/kg	<0.1
Dimethoate	mg/kg	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1
Ronnel	mg/kg	<0.1
Chlorpyrifos	mg/kg	<0.1
Fenitrothion	mg/kg	<0.1
Bromophos-ethyl	mg/kg	<0.1
Ethion	mg/kg	<0.1
Surrogate TCLMX	%	129

Acid Extractable metals in soil		
Our Reference:	UNITS	51114-A-88
Your Reference	-----	BD2/240111
Date Sampled	-----	24/01/2011
Type of sample		Soil
Date digested	-	08/02/2011
Date analysed	-	09/02/2011
Arsenic	mg/kg	8
Cadmium	mg/kg	<0.5
Chromium	mg/kg	21
Copper	mg/kg	20
Lead	mg/kg	20
Mercury	mg/kg	<0.1
Nickel	mg/kg	10
Zinc	mg/kg	36

Moisture		
Our Reference:	UNITS	51114-A-88
Your Reference	-----	BD2/240111
Date Sampled	-----	24/01/2011
Type of sample		Soil
Date prepared	-	08/02/2011
Date analysed	-	09/02/2011
Moisture	%	10

Method ID	Methodology Summary
GC.16	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
GC.3	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
GC.12 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
GC-5	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
GC.8	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Metals.20 ICP-AES	Determination of various metals by ICP-AES.
Metals.21 CV-AAS	Determination of Mercury by Cold Vapour AAS.
LAB.8	Moisture content determined by heating at 105 deg C for a minimum of 4 hours.

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH & BTEX in Soil						Base II Duplicate II %RPD		
Date extracted	-			08/02/2011	[NT]	[NT]	LCS-3	08/02/2011
Date analysed	-			09/02/2011	[NT]	[NT]	LCS-3	09/02/2011
vTRH C ₆ - C ₉	mg/kg	25	GC.16	<25	[NT]	[NT]	LCS-3	113%
Benzene	mg/kg	0.5	GC.16	<0.5	[NT]	[NT]	LCS-3	105%
Toluene	mg/kg	0.5	GC.16	<0.5	[NT]	[NT]	LCS-3	107%
Ethylbenzene	mg/kg	1	GC.16	<1.0	[NT]	[NT]	LCS-3	118%
m+p-xylene	mg/kg	2	GC.16	<2.0	[NT]	[NT]	LCS-3	117%
o-Xylene	mg/kg	1	GC.16	<1.0	[NT]	[NT]	LCS-3	120%
Surrogate aaa-Trifluorotoluene	%		GC.16	109	[NT]	[NT]	LCS-3	119%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTRH in Soil (C ₁₀ -C ₃₆)						Base II Duplicate II %RPD		
Date extracted	-			08/02/2011	[NT]	[NT]	LCS-20	08/02/2011
Date analysed	-			09/02/2011	[NT]	[NT]	LCS-20	09/02/2011
TRH C ₁₀ - C ₁₄	mg/kg	50	GC.3	<50	[NT]	[NT]	LCS-20	95%
TRH C ₁₅ - C ₂₈	mg/kg	100	GC.3	<100	[NT]	[NT]	LCS-20	103%
TRH C ₂₉ - C ₃₆	mg/kg	100	GC.3	<100	[NT]	[NT]	LCS-20	98%
Surrogate o-Terphenyl	%		GC.3	95	[NT]	[NT]	LCS-20	94%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			08/02/2011	[NT]	[NT]	LCS-20	08/02/2011
Date analysed	-			09/02/2011	[NT]	[NT]	LCS-20	09/02/2011
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-20	96%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-20	99%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-20	103%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-20	97%
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-20	102%
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	LCS-20	109%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	[NT]	[NT]	LCS-20	92%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12 subset	92	[NT]	[NT]	LCS-20	91%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Date extracted	-			08/02/2011	[NT]	[NT]	LCS-20	08/02/2011
Date analysed	-			09/02/2011	[NT]	[NT]	LCS-20	09/02/2011
HCB	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-20	106%
gamma-BHC	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-20	109%
Heptachlor	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-20	85%
delta-BHC	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-20	103%
Heptachlor Epoxide	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-20	109%
gamma-Chlordane	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-20	102%
Dieldrin	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-20	115%
Endrin	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-20	106%
pp-DDD	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-20	102%
Endosulfan II	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-20	113%
Methoxychlor	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		GC-5	139	[NT]	[NT]	LCS-20	132%

Client Reference: 40740.98, Contamination Assessment

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			08/02/2011	[NT]	[NT]	LCS-20	08/02/2011
Date analysed	-			09/02/2011	[NT]	[NT]	LCS-20	09/02/2011
Diazinon	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Dimethoate	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Ronnel	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	LCS-20	111%
Fenitrothion	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	LCS-20	122%
Bromophos-ethyl	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	LCS-20	114%
Surrogate TCLMX	%		GC.8	139	[NT]	[NT]	LCS-20	136%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			08/02/2011	[NT]	[NT]	LCS-1	08/02/2011
Date analysed	-			09/02/2011	[NT]	[NT]	LCS-1	09/02/2011
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4	[NT]	[NT]	LCS-1	97%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	[NT]	[NT]	LCS-1	101%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-1	98%
Copper	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-1	102%
Lead	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-1	99%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	[NT]	[NT]	LCS-1	100%
Nickel	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-1	102%
Zinc	mg/kg	1	Metals.20 ICP-AES	<1	[NT]	[NT]	LCS-1	97%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Moisture				
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	LAB.8	<0.10

Report Comments:

Asbestos ID was analysed by Approved Identifier: Not applicable for this job
 Asbestos ID was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike: A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

Due: 14/2/11
std +/A

CHAIN OF CUSTODY



Project Name: Contamination Assessment		To: EnviroLab Services	
Project No: 40740.98	Sampler: BAH	12 Ashley Street, Chatswood NSW 2067	
Project Mgr: CCK	Mob. Phone: 0413 886 065	Attn: Tania Notaras	
Email: Bradley.harris@douglaspartners.com.au		Phone: (02) 9910 6200	Fax: (02) 9910 6201
Date Required: Standard		Email: tnotaras@envirolabservices.com.au	

Sample ID	Lab ID	Sampling Date	Sample Type	Container Type	Analytes									Notes/preservation
			S - soil W - water	G - glass P - plastic	8 Heavy Metals	As Cd Cr Pb Hg Ni	TRH BTEX	PAH	Phenol	OCP/OPP PCB	VOC	Asbestos	pH	
BD9/270111		27/01/11	S	G	x		x	x		x		x		Inter lab dup.
BD7/270111		27/01/11	S	G	x		x	x		x		x		" " "
BD2/240111	88	24/01/11	S	G	x		x	x		x				envirolabs.

Lab Report No:		Send Results to: Douglas Partners Pty Ltd		Address: Unit 5, 50 Topham Road, Smeaton Grange 2567		Phone: (02) 4647 0075		Fax: (02) 4646 1886	
Relinquished by:				Transported to laboratory by:					
Signed:				Date & Time: 7/1/11		Received by:			

Sample Receipt Advice

Company name: **Douglas Partners**
Contact name: **Bradley Harris**
Client job number: **CONTAMINATION ASSESSMENT 40740.98**
COC number: **Not provided**
Turn around time: **5 Day**
Date received: **Feb 8, 2011**
MGT lab reference: **289863**

Sample information

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

Notes

8 Heavy Metals, OCP & OPP by mgt Labmark Melbourne and Asbestos by ASET - results may be delayed.

Contact notes

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

Leanne Knowles on Phone : +61 2 9476 6533 or by e.mail: leanne.knowles@labmark.com.au

Results will be delivered electronically via e.mail to Bradley Harris - bradley.harris@douglaspartner.com.au.

mgt Labmark Sample Receipt

Douglas Partners
96 Hermitage Road
West Ryde
NSW 2114

Attention: Bradley Harris

Report
Client Reference
Received Date

289863-S-V1
CONTAMINATION ASSESSMENT 40740.98
Feb 08, 2011

Certificate of Analysis



NATA Accredited
Laboratory Number 13535

The tests covered by this document have been performed in accordance with NATA and ISO/IES 17025 and are traceable to national standards of measurement.
This document shall not be reproduced, except in full.

Client Sample ID			BD9/270111	BD7/270111
Sample Matrix			Soil	Soil
mgt-LabMark Sample No.			11-FE30614	11-FE30615
Date Sampled			Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9 Fraction by GC	10	mg/kg	< 10	< 10
TRH C10-C14 Fraction by GC	50	mg/kg	< 50	< 50
TRH C15-C28 Fraction by GC	100	mg/kg	< 100	< 100
TRH C29-C36 Fraction by GC	100	mg/kg	< 100	< 100
TRH C10-36 (Total)	100	mg/kg	< 100	< 100
Organochlorine Pesticides				
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05
α-BHC	0.05	mg/kg	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05
β-BHC	0.05	mg/kg	< 0.05	< 0.05
Chlordane	0.1	mg/kg	< 0.1	< 0.1
δ-BHC	0.05	mg/kg	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05
γ-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05
Toxaphene	0.1	mg/kg	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	128	139
Tetrachloro-m-xylene (surr.)	1	%	129	107
Organophosphorous Pesticides				
Bolstar	0.2	mg/kg	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2

Client Sample ID			BD9/270111	BD7/270111
Sample Matrix			Soil	Soil
mgt-LabMark Sample No.			11-FE30614	11-FE30615
Date Sampled			Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit		
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 1	< 1
Fenthion	0.2	mg/kg	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2
Methyl azinphos	0.2	mg/kg	< 0.5	< 0.5
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2
Naled	0.5	mg/kg	< 1	< 1
Phorate	0.2	mg/kg	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	118	127
BTEX				
Benzene	0.5	mg/kg	< 0.5	< 0.5
Toluene	0.5	mg/kg	< 0.5	< 0.5
Ethylbenzene	0.5	mg/kg	< 0.5	< 0.5
Total m+p-Xylenes	1	mg/kg	< 1	< 1
o-Xylene	0.5	mg/kg	< 0.5	< 0.5
Xylenes(ortho.meta and para)	0.15	mg/kg	< 0.15	< 0.15
Total BTEX	1	mg/kg	< 1	< 1
4-Bromofluorobenzene (surr.)	1	%	78	78
Polyaromatic Hydrocarbons (PAH)				
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5
Benzo(b)fluoranthene & Benzo(k)fluoranthene	1	mg/kg	< 1	< 1
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5
Total PAH	1	mg/kg	< 1	< 1
Anthracene-d10 (surr.)	1	%	100	100
2-Fluorobiphenyl (surr.)	1	%	112	91
p-Terphenyl-d14 (surr.)	1	%	88	71
% Moisture	0.1	%	10	12
Asbestos			see attached	see attached
Heavy Metals				
Arsenic	2	mg/kg	9.8	8.6
Cadmium	0.5	mg/kg	< 0.5	< 0.5
Chromium	5	mg/kg	18	26

Client Sample ID			BD9/270111	BD7/270111
Sample Matrix			Soil	Soil
mgt-LabMark Sample No.			11-FE30614	11-FE30615
Date Sampled			Jan 27, 2011	Jan 27, 2011
Test/Reference	LOR	Unit		
Copper	5	mg/kg	17	17
Lead	5	mg/kg	19	19
Nickel	5	mg/kg	7.2	8.9
Zinc	5	mg/kg	29	24
Mercury	0.1	mg/kg	< 0.1	< 0.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons	Asquith	Feb 14, 2011	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
Organochlorine Pesticides	Oakleigh	Feb 12, 2011	14 Day
- Method: USEPA 8081A Organochlorine Pesticides			
Organophosphorous Pesticides	Oakleigh	Feb 12, 2011	14 Day
- Method: USEPA 8141A Organophosphorus Pesticides			
BTEX	Asquith	Feb 14, 2011	14 Day
- Method: E029/E016 BTEX			
Polyaromatic Hydrocarbons (PAH)	Asquith	Feb 14, 2011	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
% Moisture	Asquith	Feb 14, 2011	28 Day
- Method: E005 Moisture Content			
Asbestos	Asquith	Feb 14, 2011	180 Day
Heavy Metals	Oakleigh	Feb 12, 2011	6 Month
- Method: USEPA 6020 Heavy Metals & USEPA 7470/71 Mercury			

Company Name: Douglas Partners
Address: 96 Hermitage Road
West Ryde
NSW 2114

Order No.:
Report #: 289863
Phone: 02 9809 0666
Fax:

Received: Feb 8, 2011 12:00
Due: Feb 15, 2011 05:00
Priority: 5 Day
Contact name: Bradley Harris

Client Job No.: CONTAMINATION ASSESSMENT 40740.98

mgt-LabMark Client Manager: Leanne Knowles

Sample Detail					% Moisture	Arsenic	Asbestos	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	Organochlorine Pesticides	Organophosphorous Pesticides	Total Recoverable Hydrocarbons	BTEX	Polyaromatic Hydrocarbons (PAH)
Laboratory where analysis is conducted																			
Oakleigh Laboratory - NATA Site #1261						X		X	X	X	X	X	X	X	X	X			
Thornleigh Laboratory - NATA Site #18217																			
Asquith Laboratory - NATA Site #13535					X		X										X	X	X
Clayton Laboratory - NATA Site #1645																			
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID															
BD9/270111	Jan 27, 2011		Soil	A11-FE30614	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BD7/270111	Jan 27, 2011		Soil	A11-FE30615	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

mgt-LabMark Internal Quality Control Review

General

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

Holding Times

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

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

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

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

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

UNITS

mg/kg: milligrams per Kilogram	mg/L: milligrams per litre
µg/l: micrograms per litre	ppm: Parts per million
ppb: Parts per billion	%: Percentage
org/100ml: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units

TERMS

Dry:	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR:	Limit Of Reporting.
SPIKE:	Addition of the analyte to the sample and reported as percentage recovery.
RPD:	Relative Percent Difference between two Duplicate pieces of analysis.
LCS:	Laboratory Control Sample - reported as percent recovery.
CRM:	Certified Reference Material - reported as percent recovery.
Method Blank:	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate:	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate:	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate:	A second piece of analysis from a sample outside of the client's batch of samples but run within the laboratory batch of analysis.
Batch SPIKE:	Spike recovery reported on a sample from outside of the client's batch of samples but run within the laboratory batch of analysis.
USEPA:	U.S Environmental Protection Agency
APHA:	American Public Health Association
ASLP:	Australian Standard Leaching Procedure (AS4439.3)
TCPLP:	Toxicity Characteristic Leaching Procedure
COC:	Chain Of Custody
SRA:	Sample Receipt Advice

QC - ACCEPTANCE CRITERIA

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

Results <10 times the LOR : No Limit

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

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

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

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data below the LOR with a positive RPD
- eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

Quality Control Results

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Method Blank							
Total Recoverable Hydrocarbons E004 Petroleum Hydrocarbons							
TRH C6-C9 Fraction by GC	mg/kg	< 10			10	Pass	
TRH C10-C14 Fraction by GC	mg/kg	< 50			50	Pass	
TRH C15-C28 Fraction by GC	mg/kg	< 100			100	Pass	
TRH C29-C36 Fraction by GC	mg/kg	< 100			100	Pass	
Method Blank							
Organochlorine Pesticides USEPA 8081A Organochlorine Pesticides							
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
Chlordane	mg/kg	< 0.1			0.1	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Organophosphorous Pesticides USEPA 8141A Organophosphorous Pesticides							
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfathion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl azinphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Naled	mg/kg	< 0.5			0.5	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
BTEX E029/E016 BTEX							
Benzene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.5			0.5	Pass	
Total m+p-Xylenes	mg/kg	< 1			1	Pass	
o-Xylene	mg/kg	< 0.5			0.5	Pass	
Xylenes(ortho.meta and para)	mg/kg	< 0.15			0.15	Pass	
Total BTEX	mg/kg	< 1			1	Pass	
Method Blank							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	mg/kg	< 1			1	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.5			0.5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons E004 Petroleum Hydrocarbons		Result 1					
TRH C6-C9 Fraction by GC	%	101			70-130	Pass	
TRH C15-C28 Fraction by GC	%	93			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides USEPA 8081A Organochlorine Pesticides		Result 1					
4,4'-DDD	%	129			70-130	Pass	
4,4'-DDE	%	121			70-130	Pass	
4,4'-DDT	%	92			70-130	Pass	
a-BHC	%	122			70-130	Pass	
Aldrin	%	127			70-130	Pass	
b-BHC	%	123			70-130	Pass	
d-BHC	%	127			70-130	Pass	
Dieldrin	%	116			70-130	Pass	
Endosulfan I	%	115			70-130	Pass	
Endosulfan II	%	126			70-130	Pass	
Endosulfan sulphate	%	120			70-130	Pass	
Endrin	%	117			70-130	Pass	
Endrin aldehyde	%	110			70-130	Pass	
Endrin ketone	%	123			70-130	Pass	
g-BHC (Lindane)	%	127			70-130	Pass	
Heptachlor	%	108			70-130	Pass	
Heptachlor epoxide	%	124			70-130	Pass	
Hexachlorobenzene	%	114			70-130	Pass	
Methoxychlor	%	72			70-130	Pass	
LCS - % Recovery							
Organophosphorous Pesticides USEPA 8141A Organophosphorous Pesticides		Result 1					
Diazinon	%	111			70-130	Pass	
Ethion	%	112			70-130	Pass	
Fenitrothion	%	102			70-130	Pass	
Methyl parathion	%	120			70-130	Pass	
Mevinphos	%	104			70-130	Pass	
LCS - % Recovery							
BTEX E029/E016 BTEX		Result 1					
Benzene	%	100			70-130	Pass	
Toluene	%	98			70-130	Pass	
Ethylbenzene	%	95			70-130	Pass	
Total m+p-Xylenes	%	91			70-130	Pass	
o-Xylene	%	92			70-130	Pass	
Xylenes(ortho.meta and para)	%	91			70-130	Pass	
LCS - % Recovery							
Polyaromatic Hydrocarbons (PAH) E007 Polyaromatic Hydrocarbons		Result 1					
Acenaphthene	%	106			70-130	Pass	

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Acenaphthylene	%	105			70-130	Pass	
Anthracene	%	112			70-130	Pass	
Benz(a)anthracene	%	109			70-130	Pass	
Benzo(a)pyrene	%	120			70-130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	%	117			70-130	Pass	
Benzo(g,h,i)perylene	%	120			70-130	Pass	
Chrysene	%	118			70-130	Pass	
Dibenz(a,h)anthracene	%	110			70-130	Pass	
Fluoranthene	%	125			70-130	Pass	
Fluorene	%	106			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	112			70-130	Pass	
Naphthalene	%	106			70-130	Pass	
Phenanthrene	%	109			70-130	Pass	
Pyrene	%	106			70-130	Pass	
LCS - % Recovery							
Heavy Metals USEPA 6020 Heavy Metals & USEPA 7470/71 Metals							
		Result 1					
Arsenic	%	96			80-120	Pass	
Cadmium	%	96			80-120	Pass	
Chromium	%	100			80-120	Pass	
Copper	%	99			80-120	Pass	
Lead	%	94			80-120	Pass	
Nickel	%	99			80-120	Pass	
Zinc	%	82			80-120	Pass	
Mercury	%	113			75-125	Pass	
[Duplicate of 11-FE30614]							
Total Recoverable Hydrocarbons		Result 1	Result 2	RPD			
TRH C6-C9 Fraction by GC	mg/kg	< 10	< 10	<1	30%	Pass	
TRH C10-C14 Fraction by GC	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C15-C28 Fraction by GC	mg/kg	< 100	< 100	<1	30%	Pass	
TRH C29-C36 Fraction by GC	mg/kg	< 100	< 100	<1	30%	Pass	
[Duplicate of 11-FE06062 - BATCH]							
Organochlorine Pesticides		Result 1	Result 2	RPD			
4,4'-DDD	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	mg/kg	0.07	0.06	19	30%	Pass	
4,4'-DDT	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlordane	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
d-BHC	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
[Duplicate of 11-FE53305 - BATCH]							
Organophosphorous Pesticides		Result 1	Result 2	RPD			
Bolstar	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	mg/kg	< 1	< 1	<1	30%	Pass	
Fenthion	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Merphos	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl azinphos	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methyl parathion	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Naled	mg/kg	< 1	< 1	<1	30%	Pass	
Phorate	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
[Duplicate of 11-FE30614]							
BTEX		Result 1	Result 2	RPD			
Benzene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total m+p-Xylenes	mg/kg	< 1	< 1	<1	30%	Pass	
o-Xylene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes(ortho.meta and para)	mg/kg	< 0.15	< 0.15	<1	30%	Pass	
[Duplicate of 11-FE30614]							
Polyaromatic Hydrocarbons (PAH)		Result 1	Result 2	RPD			
Acenaphthene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b)fluoranthene & Benzo(k)fluorant	mg/kg	< 1	< 1	<1	30%	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
[Duplicate of 11-FE05093 - BATCH]							
Heavy Metals		Result 1	Result 2	RPD			
Arsenic	mg/kg	22	19	13	30%	Pass	
Cadmium	mg/kg	0.7	1.3	61	30%	Fail	Q15
Chromium	mg/kg	12	11	4	30%	Pass	
Copper	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	mg/kg	12	11	11	30%	Pass	
Nickel	mg/kg	6.5	6.1	7	30%	Pass	
Zinc	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
[Spike of 11-FE30614] - % Recovery							
Total Recoverable Hydrocarbons		Result 1					
TRH C6-C9 Fraction by GC	%	99			70 - 130	Pass	
[Spike of 11-FE06062 - BATCH] - % Recovery							
Organochlorine Pesticides		Result 1					
4,4'-DDD	%	115			70 - 130	Pass	
4,4'-DDE	%	128			70 - 130	Pass	
4,4'-DDT	%	80			70 - 130	Pass	
a-BHC	%	122			70 - 130	Pass	
Aldrin	%	112			70 - 130	Pass	
b-BHC	%	110			70 - 130	Pass	
d-BHC	%	110			70 - 130	Pass	
Dieldrin	%	115			70 - 130	Pass	
Endosulfan I	%	125			70 - 130	Pass	
Endosulfan II	%	110			70 - 130	Pass	
Endosulfan sulphate	%	117			70 - 130	Pass	
Endrin	%	96			70 - 130	Pass	
Endrin aldehyde	%	110			70 - 130	Pass	
Endrin ketone	%	107			70 - 130	Pass	
g-BHC (Lindane)	%	114			70 - 130	Pass	
Heptachlor	%	94			70 - 130	Pass	
Heptachlor epoxide	%	120			70 - 130	Pass	

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
Hexachlorobenzene	%	106			70 - 130	Pass	
Methoxychlor	%	79			70 - 130	Pass	
[Spike of 11-FE53305 - BATCH] - % Recovery							
Organophosphorous Pesticides		Result 1					
Diazinon	%	92			70 - 130	Pass	
Ethion	%	107			70 - 130	Pass	
Fenitrothion	%	94			70 - 130	Pass	
Methyl parathion	%	112			70 - 130	Pass	
Mevinphos	%	123			70 - 130	Pass	
[Spike of 11-FE30614] - % Recovery							
BTEX		Result 1					
Benzene	%	98			70 - 130	Pass	
Toluene	%	96			70 - 130	Pass	
Ethylbenzene	%	90			70 - 130	Pass	
Total m+p-Xylenes	%	85			70 - 130	Pass	
o-Xylene	%	86			70 - 130	Pass	
Xylenes(ortho.meta and para)	%	85			70 - 130	Pass	
[Spike of 11-FE30614] - % Recovery							
Polyaromatic Hydrocarbons (PAH)		Result 1					
Acenaphthene	%	105			70 - 130	Pass	
Acenaphthylene	%	106			70 - 130	Pass	
Anthracene	%	113			70 - 130	Pass	
Benzo(a)anthracene	%	111			70 - 130	Pass	
Benzo(a)pyrene	%	115			70 - 130	Pass	
Benzo(b)fluoranthene & Benzo(k)fluoranthene	%	113			70 - 130	Pass	
Benzo(g,h,i)perylene	%	122			70 - 130	Pass	
Chrysene	%	112			70 - 130	Pass	
Dibenz(a,h)anthracene	%	117			70 - 130	Pass	
Fluoranthene	%	126			70 - 130	Pass	
Fluorene	%	106			70 - 130	Pass	
Indeno(1,2,3-cd)pyrene	%	117			70 - 130	Pass	
Naphthalene	%	110			70 - 130	Pass	
Phenanthrene	%	111			70 - 130	Pass	
Pyrene	%	108			70 - 130	Pass	
[Spike of 11-FE05093 - BATCH] - % Recovery							
Heavy Metals		Result 1					
Arsenic	%	91			75 - 125	Pass	
Cadmium	%	95			75 - 125	Pass	
Chromium	%	96			75 - 125	Pass	
Copper	%	99			75 - 125	Pass	
Lead	%	87			75 - 125	Pass	
Nickel	%	94			75 - 125	Pass	
Zinc	%	81			75 - 125	Pass	
Mercury	%	104			70 - 130	Pass	

Comments

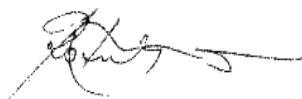
Sample Integrity

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

Qualifier Codes/Comments

Code	Description
Q15	The RPD reported passes mgt-LabMark's Acceptance Criteria as stipulated in AS-POL-002. Refer to Glossary Page of this report for further details

Authorised By



Dr. Bob Symons

NATA Signatory

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

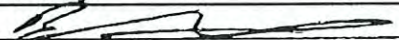
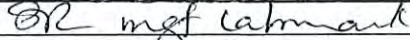
* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Project Name: Contamination Assessment		To: Envirolab Services	
Project No: 40740.98	Sampler: BAH	12 Ashley Street, Chatswood NSW 2067	
Project Mgr: CCK	Mob. Phone: 0413 886 065	Attn: Tania Notaras	
Email: Bradley.harris@douglaspartners.com.au		Phone: (02) 9910 6200	Fax: (02) 9910 6201
Date Required: Standard		Email: tnotaras@envirolabservices.com.au	

Sample ID	Lab ID	Sampling Date	Sample Type	Container Type	Analytes									Notes/preservation
			S - soil W - water	G - glass P - plastic	8 Heavy Metals	As Cd Cr Pb Hg Ni	TRH BTEX	PAH	Phenol	OCP/OPP POB	VOC	Asbestos	pH	
BD9/270111	11-FE 30614	27/01/11	S	G	x		x	x		x		x		Inter lab dup.
BD7/270111	11-FE 30615	27/01/11	S	G	x		x	x		x		x		" " "
BD2/240111		24/01/11	S	G	x		x	x		x				envirolabs.

Lab Report No:		Send Results to: Douglas Partners Pty Ltd		Address: Unit 5, 50 Topham Road, Smeaton Grange 2567		Phone: (02) 4647 0075		Fax: (02) 4646 1886	
Relinquished by:				Transported to laboratory by:					
Signed: 				Date & Time: 7/1/11		Received by: 			

8/2/11 3:05pm

Appendix F

Quality Assurance and Quality Control

QA/QC Procedures and Results

Q1 – Field Quality Assurance and Quality Control

The field quality control (QC) procedures for sampling as prescribed in Douglas Partners *Field Procedures Manual* were followed at all times during the assessment.

Q1.1 Sampling Team

Field sampling was undertaken by DP Environmental Engineer, Bradley Harris between 24 and 28 January 2011 in predominately fine weather conditions.

Q1.2 Sample Collection and Dispatch

Sample collection procedures and dispatch for soil are reported in Section 7.2.

Q1.3 Logs

Logs for each sampling location were recorded in the field. The location of individual samples were recorded on the field logs along with location, depth, initials of sampler, replicate locations, replicate type, site observations and weather conditions. Logs are presented in Appendix D.

Q1.4 Chain-of-Custody (COC)

Analysis to be performed on each sample was recorded on the COC which accompanied samples to the analytical laboratory. Signed copies of COCs are presented in Appendix E, following the laboratory reports.

Q1.5 Sample Splitting Techniques

Replicate samples were collected in the field as a measure of accuracy, precision and repeatability of the results. Field replicate samples for soil were collected from the same location and at an identical depth to the primary sample. Equal portions of the recovered sample were placed into the sampling jars and sealed. The sample was not homogenised in a bowl and then split, as this process can lead to loss of volatiles from the soil should they be present. Replicate samples were labelled with DP identification numbers, recorded on DP bore logs, so as to conceal their relationship to their primary samples from the analysing laboratory.

Q1.6 Decontamination Procedures

Soil sampling was conducted by gloved hands. Disposable gloves were changed between samples.

Q1.7 Relative Percentage Difference

A measure of the consistency of results for field samples is derived by the calculation of relative percentage differences (RPDs) for duplicate samples. A RPD of $\pm 30\%$ is generally considered acceptable for inorganic analytes by DECCW, although in general a wider RPD range may be acceptable for organic analytes (up to 50%).

Q1.7.1 Intra-Laboratory Analysis

Intra-laboratory replicates were conducted as an internal check of the reproductively within the primary laboratory (Envirolab) and as a measure of consistency of sampling techniques. Replicate samples were collected at a rate of approximately one replicate sample for every ten original samples collected and also analysed at a rate of 10% of primary samples analysed. A limited suite of contaminants was analysed, including heavy metals, TPH and BTEX.

Three soil samples with replicate pairs were analysed internally for a limited suite of contaminants. TP23 at 0.2 m, TP5 at 0.5 m and TP20 at 0.2 m were the soil samples chosen to be duplicated for the sample cohort at the time of the investigation.

The comparative results of analysis between original and replicate samples are summarised in Tables Q1 and Q2 below.

Table Q1: Intra-laboratory Results for Soils – Heavy Metals

Sample Description	Heavy Metals							
	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn
23/0.2	7	<0.5	18	16	22	<0.1	9	25
BD1/240111	7	<0.5	19	15	26	<0.1	9	25
Difference	0	0	1	1	4	0	0	0
RPD (%)	0	0	5	6	17	0	0	0
5/0.5	6	<0.5	21	23	18	<0.1	9	25
BD5/250111	6	<0.5	19	19	17	<0.1	8	23
Difference	0	0	2	4	1	0	1	2
RPD (%)	0	0	10	19	6	0	12	8
20/0.2	9	<0.5	25	20	26	<0.1	12	42
BD2/240111	8	<0.5	21	20	20	<0.1	10	36
Difference	1	0	4	0	6	0	2	6
RPD (%)	12	0	17	0	26	0	18	15

Table Q2: Intra-laboratory Results for Soils – TPH/BTEX/PAH

Sample Description	PAH		TPH		BTEX			
	Benzo(a)Pyrene	Total PAH	C6-C9	C10-C36	Benzene	Toluene	Ethylbenzene	Total Xylene
23/0.2	<0.05	<PQL	<25	<250	<0.5	<0.5	<1.0	<3.0
BD1/240111	<0.05	<PQL	<25	<250	<0.5	<0.5	<1.0	<3.0
Difference	0	0	0	0	0	0	0	0
RPD (%)	0	0	0	0	0	0	0	0
5/0.5	<0.05	<PQL	<25	<250	<0.5	<0.5	<1.0	<3.0
BD5/250111	<0.05	<PQL	<25	<250	<0.5	<0.5	<1.0	<3.0
Difference	0	0	0	0	0	0	0	0
RPD (%)	0	0	0	0	0	0	0	0
20/0.2	<0.05	<PQL	<25	<250	<0.5	<0.5	<1.0	<3.0
BD2/240111	<0.05	<PQL	<25	<250	<0.5	<0.5	<1.0	<3.0
Difference	0	0	0	0	0	0	0	0
RPD (%)	0	0	0	0	0	0	0	0

The calculated RPD values for most analytes were all within the acceptable range of ± 30 for the samples and their replicates.

It is therefore considered that the results indicate an acceptable consistency between the samples and their replicates and indicate that suitable field sampling methodology was adopted and laboratory precision was achieved.

Q1.7.2 Inter-Laboratory Analysis

Inter-laboratory replicates were conducted as a check of the reproductively within the primary laboratory (Envirolab) and a secondary laboratory (Labmark) and as a measure of consistency of sampling techniques. Two soil samples were taken as inter-laboratory samples in addition to intra-laboratory samples. Samples were analysed for a limited suite of contaminants including heavy metals and TPH/BTEX. TP11 at 0.2 m and TP26 at 0.2 m were the soil samples chosen to be duplicated for the sample cohort at the time of the investigation.

The comparative results of analysis between original and replicate samples are summarised in Tables Q3 and Q4 below.

Table Q3: Inter-laboratory Results for Soils – Heavy Metals

Sample Description	Heavy Metals							
	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn
11/0.2	9	<PQL	30	21	31	<PQL	13	37
BD7/270111	8.6	<PQL	26	17	19	<PQL	8.9	24
Difference	0.4	0	4	4	12	0	4.1	13
RPD (%)	5	0	14	21	48	0	37	43
26/0.2	9	<PQL	21	23	23	<PQL	11	43
BD9/270111	9.8	<PQL	18	17	19	<PQL	7.2	29
Difference	0.8	0	3	6	4	0	3.8	14
RPD (%)	9	0	15	30	19	0	42	39

Table Q4: Inter-laboratory Results for Soils – TPH/BTEX/PAH

Sample Description	PAH		TPH		BTEX			
	Benzo(a)Pyrene	Total PAH	C6-C9	C10-C36	Benzene	Toluene	Ethylbenzene	Total Xylene
11/0.2	<0.05	<PQL	<25	<250	<0.5	<0.5	<1.0	<3.0
BD7/270111	<0.05	<PQL	<25	<250	<0.5	<0.5	<1.0	<3.0
Difference	0	0	0	0	0	0	0	0
RPD (%)	0	0	0	0	0	0	0	0
26/0.2	<0.05	<PQL	<25	<250	<0.5	<0.5	<1.0	<3.0
BD9/270111	<0.05	<PQL	<25	<250	<0.5	<0.5	<1.0	<3.0
Difference	0	0	0	0	0	0	0	0
RPD (%)	0	0	0	0	0	0	0	0

The calculated RPD values for the two soil primary and replicate pairs were generally within the acceptable range of $\pm 30\%$, with the exception of lead (11/0.2 only), nickel and zinc. Soil sample TP26 at 0.2 m was collected from fill and that the results may be affected by the heterogeneous nature of the samples. It is also noted that the difference of the results can also be affected by the different laboratory equipment adopted by each laboratory, thereby there would be slight differences in PQL. The RPD difference is considered to be consistent given the percentage is lower than 50%.

It is therefore considered that the results indicate an acceptable consistency between primary and secondary laboratories.

Q2 – Laboratory Quality Assurance and Quality Control

Q2.1 Laboratory Accreditation

Only laboratories accredited by the National Association of Testing Authorities (NATA) for the chemical analyses undertaken were used for analysis of samples recovered as part of this assessment. Samples were submitted to the following laboratories for analysis:

- Primary Laboratory: Envirolab Services Pty Ltd (Chatswood);
- Secondary Laboratory: Labmark (Lane Cove)

Both laboratories are NATA accredited for the analyses undertaken. Envirolab's accreditation number is: 2901 and they are accredited for compliance with ISO/IEC 17025. In-house procedures are employed by Envirolab in the absence of documented standards. This is performed yearly and is reviewed by NATA.

Envirolab participate in all common Proficiency Rounds including NARL (NMI) for organics and metals, PTA (NATA for organics, inorganics, asbestos and metals, QLD Govt for SPOCAS and National Residue Survey for metals). Envirolab also participate in non-accredited rounds conducted by the University of Wollongong.

Labmark's NATA accreditation number is: 13542. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA/APHA documents.

Q2.2 Chain-of-Custody

Chain-of-custody information was recorded on the DP standard chain-of-custody (COC) sheets, which accompanied samples to the analytical laboratories. COCs contained sampling date, receipt date and time and the identity of samples. Copies of COCs, signed by the analytical laboratories, are presented in Appendix E, following the laboratory reports.

Q2.3 Batch Numbers and Holding Times

The following table lists the laboratory batch numbers applicable to this assessment, together with the corresponding sampling, sample receipt and COC receipt dates.

Table Q5: Batch Details

Laboratory	Batch No.	Sampling Date	Sample Receipt	COC Receipt
Envirolab	51114	24-27/01/2011	28/01/2011	28/01/2011
Envirolab	51114-A	27/01/2011	07/02/2011	07/02/2011
Mgt-Labmark	289863	27/01/2011	08/02/2011	08/02/2011

Schedule B(3) of the *National Environment Protection (Assessment of Site Contamination) Measure 1999* (NEPM) prepared by the National Environment Protection Council (NEPC), details recommended maximum holding times for samples for various analytes.

A review of the laboratory report sheets and chain-of-custody documentation indicated that holding times were met by the laboratory, as summarised in the table below.

Table Q6: Holding Times

Matrix	Analyte	Recommended maximum holding time	Holding time met
Soil	Heavy Metals: As, Cd, Cr, Cu, Pb, Hg, Ni, Zn	6 months	yes
	TPH C ₆ -C ₉	14 days	yes
	TPH C ₁₀ -C ₃₆	14 days	yes
	BTEX	14 days	yes
	PAH	14 days	yes
	OCP	14 days	yes
	OPP	14 days	yes
	PCB	14 days	yes
	Phenols	14 days	yes
	VOCs	14 days	yes
	pH	7 days	yes
	Asbestos	Nil	yes

All samples were analysed within the specified holding times for all analytes.

Q2.4 Analytical Methods

The laboratory analytical methods are provided on the laboratory certificates in Appendix D and summarised below in Table Q7.

The test methods used by the laboratories generally comply with those listed in the NEPM and the Australian and New Zealand Environment and Conservation Council (ANZECC)-1996 *Guidelines for the Laboratory Analysis of Contaminated Soils*. Alternate methods used by the laboratories (i.e. not identified in the NEPM and ANZECC guidelines) have been validated by the laboratories, as recommended in the NEPM and ANZECC guidelines, and endorsed by NATA.

Table Q7: Soil Analysis

Analyte	PQL / LOR ¹ (mg/kg) Envirolab / Labmark	Envirolab Reference Method	Labmark Reference Method
Heavy Metals Cd, Cr, Cu, Pb, Ni, Zn	1.0 / 0.1-5.0	ICP-AES (Metals.20)	E022.2 digested in nitric/hydrochloric acid, analysis by ICP-MS
Arsenic (As)	4.0 / 1.0	ICP-AES (Metals.20)	E022.2 digested in nitric/hydrochloric acid, analysis by ICP-MS
Mercury (Hg)	0.10 / 0.05	CV-AAS (Metals.21)	E026.2 digested in nitric/hydrochloric acid, analysis by CV-ICP-MS or FIMS
TPH C ₆ -C ₉	25 / 10	P&T/GC/MS (GC.16)	E029.2/E016.2 methanol extraction, analysis by P&T/GC/FID/MSD
TPH C ₁₀ -C ₃₆	250 / 250	GC/FID (GC.3)	E006.2 DCM/Acetone/Hexane (10:45:45) extraction, analysis by GC/FID
BTEX	0.5-2 / 0.2-1.0	P&T/GC/MS (GC.14)	E002.2 methanol extraction, analysis by P&T/GC/PID/MSD
OCP	0.1 / 0.05	GC/ECD (GC.5)	E013.2 DCM/Acetone/Hexane (10:45:45) extraction, analysis by GC/dual ECD
OPP	0.1 / 0.5-1.0	GC/MS (GC.8)	E014.2 DCM/Acetone/Hexane (10:45:45) extraction, analysis by GC/MSD
PCB	0.1 / 0.5	GC/ECD (GC.6)	E013.2 DCM/Acetone/Hexane (10:45:45) extraction, analysis by GC/dual ECD
PAH	0.05-0.1 / 0.5-1.0	GC/MS (GC.12 subset)	E007.2 DCM/Acetone/Hexane (10:45:45) extraction, analysis by GC/MS
Asbestos	qualitative identification	AS4964-2004, qualitative identification using Polarised Light Microscopy and Dispersion Staining Techniques.	Examined under stereo microscope and selected fibres were analysed by using Polarised Light Microscopy and Dispersion Staining Techniques. (Safer Environment Method)

1: Practical Quantitation Limit / Limit of Reporting

Q2.5 Practical Quantitation Limits - PQLs

The PQL (also referred to by some laboratories as the limit of reporting) is the lowest quantity of an analyte which can be detected by the adopted analysis. PQLs at different analytical laboratories can differ depending on the analytical techniques.

Q2.6 Surrogate Spike

This sample is prepared by adding a known amount of surrogate, which behaves similarly to the analyte, prior to analysis of each sample. The recovery result indicates the proportion of the known concentration of the surrogate that is detected during analysis. The following Table Q8 summarises the reported recoveries and the acceptance criteria adopted by each of the laboratories.

Table Q8: Surrogate Spike Recoveries

Laboratory	Reported Recoveries	Acceptance Limits
Envirolab	66-140%	60-140% organics 10-140% SVOC and speciated phenols
LabMark	71-139%	50-150% general 20-130% Phenols

All reported recoveries are within acceptance limits and it is considered the extraction technique was effective.

Q2.7 Laboratory Control Sample (LCS)

This sample comprises spiking either a standard reference material or a control matrix (such as a blank of sand or water) with a known concentration of specific analytes. The control sample is analysed with the sample batch and the recorded concentrations reported as a percentage recovery of the known or expected concentration, in order to determine how the laboratory has performed with regard to sample preparation and analytical procedure. LCS are analysed at a frequency of 1 in 20, with a minimum of one analysed per batch.

The following Table Q9 summarises the reported recoveries and the acceptance criteria adopted by each of the laboratories.

Table Q9: Laboratory Control Samples

Laboratory	Reported Recoveries	Acceptance Limits
Envirolab	70-116% 67-130%	70-130% inorganics / metals 60-140% organics 10-140% SVOC and speciated phenols
LabMark	72-129% 82-100% 113%	70-130% general 80-120% metals 75-125% mercury

Overall the results are within acceptance limits as specified by the laboratory, and DP considers the extraction and analytical techniques to be effective.

Q2.8 Laboratory Duplicate Results

The laboratory prepares duplicate samples from the supplied samples (original samples) and/or laboratory spiked samples, and carries out preparation and testing in the same manner as the original sample. The duplicate sample provides an indication of laboratory precision and reproducibility. The comparisons between the laboratory duplicates and original samples are reported on the laboratory test results certificates as Relative Percentage Difference (RPD).

The following Table Q10 summarises the reported RPD and the acceptance criteria adopted by each of the laboratories.

Table Q10: Laboratory Duplicate Samples

Laboratory	Reported Recoveries	Acceptance Limits
EnviroLab	0-39%	>5xPQL : 0-50% RPD <5xPQL : any RPD
LabMark	0-61%	<30% RPD <10 x LOR

The reported RPD were within the acceptance criteria adopted, with the exception of a batch sampled cadmium result which was above the allowable RPD, but was however less than 10 x LOR and therefore is within the criteria.:

Q2.8 Laboratory Blank Results

The laboratory blank, sometimes referred to as the method blank or reagent blank is the sample prepared and analysed at the beginning of every analytical run, following calibration of the analytical apparatus. This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, it can be determined by processing solvents and reagents in exactly the same manner as for samples. Laboratory blanks are analysed at a frequency of 1 in 20, with a minimum of one per batch.

The laboratory results for blanks indicated concentrations of all analytes to be below PQL and therefore the results were considered to be acceptable.

Q2.9 Matrix Spike

The purpose of matrix spikes is to monitor the performance of the analytical methods used and to determine whether matrix interferences exist. Samples and replicates are spiked with identical concentrations of the target analyte before extraction or digestion. The results are reported as percentage recoveries of the known spike concentration.

The following Table Q11 summarises the reported RPD and the acceptance criteria adopted by each of the laboratories.

Table Q11: Matrix Spike Samples

Laboratory	Reported Recoveries	Acceptance Limits
Envirolab	70-125% 60-139%	70-130% inorganics/metals 60-140% organics 10-140% SVOC and speciated phenols
LabMark	79-128% 81-99% 104%	70-130% general 75-125% Heavy Metals 70-130% Mercury

The matrix spike data presented fall within the acceptance limits of the laboratories.

Appendix G

Site Photographs



Photo 1 - Bare ground located within Tranche 7



Photo 2 - Creekline within site

	Site Photographs	PROJECT: 40740.98
	Tranches 7, 8 and Anthony Reserve	PLATE No: 1
	Oran Park	REV: A
	CLIENT: Landcom	DATE: 1-Mar-11



Photo 3 - Embankment located within Tranche 8



Photo 4 - Overlooking the site, looking north

	Site Photographs Tranches 7, 8 and Anthony Reserve Oran Park CLIENT: Landcom	PROJECT: 40740.98
		PLATE No: 2
		REV: A
		DATE: 1-Mar-11



Photo 5 - Taken on top of embankment overlooking the site



Photo 6 - Groundwater encountered at TP6



Photo 7 - Typical natural soils recovered from test pits

	Site Photographs	PROJECT: 40740.98
		PLATE No: 4
	Tranches 7, 8 and Anthony Reserve	REV: A
	Oran Park	DATE: 1-Mar-11
	CLIENT: Landcom	

Appendix H

Summary of Laboratory Results

Table 2 - Results of Soil Analysis (All results in mg/kg unless otherwise stated)

Sample ID	Sampling Date	Heavy Metals								PAH		TPH				Benzene	Toluene	Ethylbenzene	Total Xylene	Atrian + dieldrin	Chlordane	OCP DDT + DDE + DDD	Heptachlor	OPP	Asbestos	
		As	Cd	Cr ⁴	Cu	Pb	Hg	Ni	Zn	B(a)P	total ⁵	C6-C9	C10-C14	C15-C28	C29-C36											
1/0.2	27/01/2011	6	<POL	17	17	16	<POL	9	24	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	NAD		
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9/0.2	27/01/2011	8	<POL	19	15	23	<POL	8	30	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	NAD		
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12/0.2	25/01/2011	11	<POL	24	20	20	<POL	13	37	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	NAD		
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13/0.2	24/01/2011	17	0.9	21	22	18	<POL	15	43	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	NAD		
13/0.5	24/01/2011	11	<POL	16	22	15	<POL	8	34	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	<POL	NAD		
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Practical Quantitation Limits																										
		4	0.5	1	1	1	0.1	1	1	0.05	0.1	25	50	100	100											