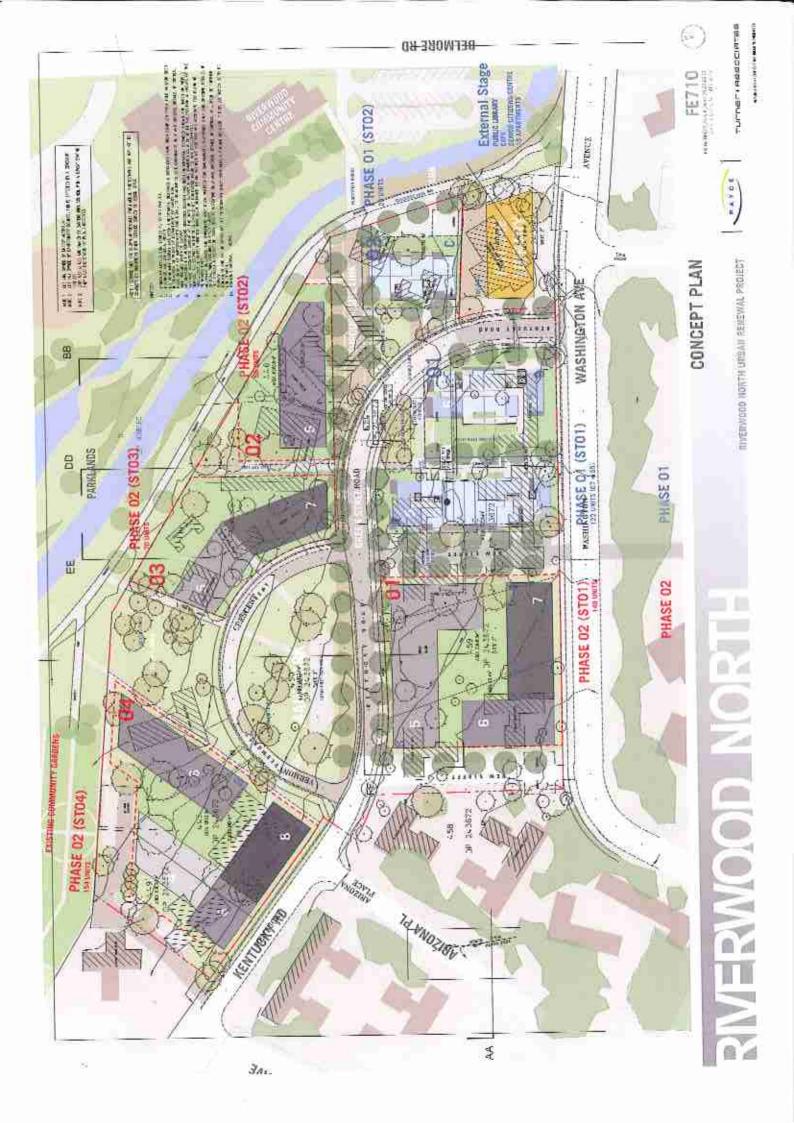


Appendix A

Draft Concept Plan





Appendix B

Testpit Logs



Test Pit No.: TP11 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 0.9 m

ле *Б***ерит.** 0.9 m

Eastings: -

Northings: - **Date:** 23/11/2010

Operator and Co.: Rory of Ken Cole

Excavation Method: Excavator

Log By: Tim Davis

	SUBSURFACE PROFILE			SAMPLE		
Depth	Visual	Description	Number	Condition	Observations	
-0.0 - - - - -	- X - X - X - X - X - X - X - X - X - X	Ground Surface FILL Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of shale pieces, rootlets and few ACM fragments. Silty Clay	0.1-0.2		ACM observed (4 g)	
- - -1.0 - - -		Silty Clay Yellow orange, medium plasticity, damp and heterogeneous. End of Hole at 0.9 m bgs				
- - - -2.0						
- - - - - -3.0						
- - - - - -						
-4.0 -						

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	
, , , asi, rabing		



Test Pit No.: TP14 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 Client: MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.2 m

Operator and Co.: Rory of Ken Cole Eastings: -Excavation Method: Excavator

Northings: -Log By: Tim Davis

Date: 23/11/2010 Excavation Width: 450 mm

	SI	UBSURFACE PROFILE	SAMPLE		
Depth	Visual	Description	Number	Condition	Observations
-0.0		Ground Surface FILL Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of ash/slag, numerous ACM fragments, brick pieces and tile fragments.	0.1-0.2		ACM observed (381 g)
- -1.0 - - - - - - -	X X X X X X X X X X X X X X X X X X X	Silty Clay Yellow orange, medium plasticity, damp and heterogeneous. End of Hole at 1.2 m bgs			
- -2.0 - - - - - -					
- -3.0 - - - - - -					
-4.0					

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	



Test Pit No.: TP17 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.5 m

Operator and Co.: Rory of Ken Cole

Excavation Method: Excavator

Eastings: -Northings: -

Log By: Tim Davis

Date: 23/11/2010

	SI	UBSURFACE PROFILE	SAMPLE			
Depth	Visual	Description	Number	Condition	Observations	
-0.0 - - - - - - - - - - - - - - - - -	=	Ground Surface FILL Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of glass fragments, tiles and ACM fragments. Silty Clay Yellow orange, medium plasticity, damp and heterogeneous.	0.1-0.2		ACM observed (991 g)	
- - - - - -2.0	× × × × × × × × × × × × × × × × × × ×	End of Hole at 1.5 m bgs				
- - - -3.0 - - - - -						
- -4.0 -						

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	



Test Pit No.: TP2 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.2 m

Eastings: -

th: 1.2 m Operator and Co.: Rory of Ken Cole

Excavation Method: Excavator

Northings: - Log By: Tim Davis

Date: 23/11/2010 **Excavation Width:** 450 mm

	SI	UBSURFACE PROFILE	SAMPLE			
Depth	Visual	Description	Number	Condition	Observations	
-0.0 - - - - - - -		Ground Surface FILL Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of some ash/slag, tiles, concretem ACM fragments and rootlets.	0.3-0.4	_	ACM observed (181 g)	
- -1.0 - - - - - - -		Silty Clay Yellow orange, medium plasticity, wet and heterogeneous. End of Hole at 1.2 m bgs				
-2.0 - - - - - - -						
-3.0 - - - - - - - - - - - - - - - - - - -						
Sample		Sample Condition				

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	



Test Pit No.: TP21 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.1 m

Eastings: -

Northings: -

Date: 24/11/2010

Operator and Co.: Rory of Ken Cole

Excavation Method: Excavator

Log By: Tim Davis

	SI	JBSURFACE PROFILE	SAMPLE		SAMPLE
Depth	Visual	Description	Number	Condition	Observations
-0.0	XXXXX	Ground Surface			
- - - -		FILL Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of tiles, rootlets and ACM fragments.	0.1-0.2 QC1/1A		ACM observed (58 g)
		Silty Clay Yellow orange, medium plasticity, damp and heterogeneous.	0.7-0.8		
-1.0		End of Hole at 1.1 m bgs			
- - - -4.0 -					

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	



Test Pit No.: TP28 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 0.8 m

Eastings: -

Northings: -

Date: 24/11/2010

Operator and Co.: Rory of Ken Cole

Excavation Method: Excavator

Log By: Tim Davis

	SI	JBSURFACE PROFILE	SAMPLE			
Depth	Visual	Description	Number	Condition	Observations	
-0.0 -		Ground Surface FILL Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets and ACM fragments	0.1-0.2 QC2/2A	-	ACM observed (74 g)	
- - - - -1.0		Silty Clay Yellow brown, medium plasticity, damp and heterogeneous. End of Hole at 0.8 m bgs	0.4-0.5			
- - - -						
-2.0						
- - - - -3.0						
- - - - -						
- - -4.0			_			

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	
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Test Pit No.: TP33 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 0.9 m

Operator and Co.: Rory of Ken Cole

Eastings: -

Excavation Method: Excavator Log By: Tim Davis

Northings: Date: 24/11/2010

	SI	JBSURFACE PROFILE	SAMPLE				
Depth	Visual	Description	Number	Condition	Observations		
-0.0	****	Ground Surface FILL					
- - - -		Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of roadbase gravels, ash/slag, tiles and ceramic pieces	0.1-0.2				
- - -		una notorogeneous.					
-1.0		End of Hole at 0.9 m bgs					
-							
F							
2.0							
F							
-							
3.0							
-							
_							
-4.0							

·	Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing U - undisturbed tube sample D - disturbed sample CS - core sample	SFA - Solid Flight Auger HFA - Hollow Flight Auger	D - disturbed sample	



Test Pit No.: TP8 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 0.8 m

Eastings: -

Northings: -

Date: 23/11/2010

Operator and Co.: Rory of Ken Cole

Excavation Method: Excavator

Log By: Tim Davis

	SI	UBSURFACE PROFILE	SAMPLE				
Depth	Visual	Description	Number	Condition	Observations		
-0.0 -0.0 -1.0 -1.0 2.0 		FILL Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets and few ACM fragments. Silty Clay Yellow orange, medium plasticity, damp and heterogeneous. End of Hole at 0.8 m bgs	0.3-0.4		ACM observed (41 g)		

	Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing U - undisturbed tube sample D - disturbed sample CS - core sample	SFA - Solid Flight Auger HFA - Hollow Flight Auger	D - disturbed sample	



Test Pit No.: TP86 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.0 m

Eastings: -

Northings: -

Date: 30/11/2010

Operator and Co.: Ken Cole

Excavation Method: Excavator

Log By: Tim Davis

	SI	UBSURFACE PROFILE	SAMPLE		
Depth	Visual	Description	Number	Condition	Observations
-0.0	~~~~	Ground Surface			
- - - -		FILL Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments, rootlets, glass pieces and shale pieces.	0.1-0.2	-	ACM observed (72 g)
- - -		Silty Clay Yellow orange, medium plasticity, damp	0.5-0.6		
-1.0 -	<u>x</u> <u>x</u> <u>x</u> <u>x</u>	End of Hole at 1.0 m bgs			
-					
-2.0					
- - -					
- - - -3.0					
- - - -					
- - - -					
- -4.0 -					

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	



Test Pit No.: TP37 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.1 m

Operator and Co.: Mike of Ken Cole

Eastings: -

Excavation Method: Excavator

Northings: - Log By: Tim Davis

Date: 25/11/2010 **Excavation Width:** 450 mm

	SUBSURFACE PROFILE			SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations		
-0.0 - - -		Ground Surface FILL Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments, rootlets and shale pieces	0.1-0.2			ACM observed (24 g)		
- - -1.0 -	x x x	Silty Clay Yellow brown, medium plasticity, damp, heterogenous. End Of Hole at 1.1 m bgs	0.8-0.9					
- - - - - - -2.0								
- - - - -								
3.0 								
- - - -4.0								
Comple	Method	Sample Condition						

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	



Test Pit No.: TP41 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.2 m

Operator and Co.: Mike of Ken Cole

Eastings: -

Excavation Method: Excavator Log By: Tim Davis

Northings: - **Date:** 25/11/2010

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
-0.0	XXXXX	Ground Surface				
- - - -		FILL Silty clay, brown, low plasticity, damp, heterogeneous with numerous ACM fragments and shale pieces	0.1-0.2			ACM observed (7568 g)
- - -1.0	X - x - x - x - x - x - x - x - x - x -	Silty Clay Yellow brown, medium plasticity, damp, heterogenous.				
- - - -		End Of Hole at 1.2 m bgs				
- -2.0 - - -						
- - - -3.0						
- - - - - -4.0						
<u>-</u>	Method	Sample Condition				

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	



Test Pit No.: TP43 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.2 m

Northings: -

Operator and Co.: Mike of Ken Cole

Excavation Method: Excavator

Log By: Tim Davis

Eastings: - Excava

Date: 25/11/2010 **Excavation Width:** 450 mm

	SI	SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
-0.0	XXXXX	Ground Surface				
- - - -		FILL Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets and ACM fragments	0.1-0.2			ACM observed (125 g)
- - -1.0	× × ×	Silty Clay Yellow brown, medium plasticity, damp, heterogenous.	0.8-0.9	-		
-		End Of Hole at 1.2 m bgs				
-						
- -2.0 -						
-						
-3.0 - - - -						
-4.0 - -						

	Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing U - undisturbed tube sample D - disturbed sample CS - core sample	SFA - Solid Flight Auger HFA - Hollow Flight Auger	D - disturbed sample	



Test Pit No.: TP46 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 0.9 m

Operator and Co.: Mike of Ken Cole

Excavation Method: Excavator

Eastings: -Northings: -

Log By: Tim Davis

Date: 25/11/2010

SUBSURFACE PROFILE		SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
-0.0	~~~~	Ground Surface				
-		FILL Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets and ACM fragments	0.1-0.2			ACM observed (152 g)
- - -	* - x *	Silty Clay Yellow brown, medium plasticity, damp, heterogenous.	0.55-0.65			
- -1.0	×	End Of Hole at 0.9 m bgs				
- - -						
 - -						
- -2.0 -						
- - -						
- -3.0 -						
<u>-</u> -						
_						
- -4.0 -						
Sample		Sample Condition				

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	



Test Pit No.: TP47 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.1 m

Operator and Co.: Mike of Ken Cole

Eastings: - Excavation Method: Excavator

Northings: - Log By: Tim Davis

Date: 25/11/2010 **Excavation Width:** 450 mm

SUBSURFACE PROFILE		SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
-0.0		Ground Surface				
		FILL Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, concrete pieces and ACM fragments	0.1-0.2			ACM observed (99 g)
_ _ 1.0	× × × × × × × × × × × × × × × × × × ×	Silty Clay Yellow brown, medium plasticity, damp, heterogenous.				
_ - -		End Of Hole at 1.1 m bgs				
- - -						
-2.0 - - -						
 - - -						
- -3.0 -						
- - -						
- - -4.0						
-	Sample Method Sample Condition					

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	



Test Pit No.: TP51 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.1 m

Operator and Co.: Mike of Ken Cole

Eastings: -Northings: - Excavation Method: Excavator Log By: Tim Davis

Date: 25/11/2010

SUBSURFACE PROFILE		SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
-0.0	A - 3 - A	neterogenous.	0.1-0.2			ACM observed (11 g)
-2.0		End Of Hole at 1.1 m bgs				
-3.0						
- - - -4.0						

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	



Test Pit No.: TP52 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.1 m

Operator and Co.: Mike of Ken Cole

Eastings: - Excavation Method: Excavator

Northings: - Log By: Tim Davis

Date: 25/11/2010 **Excavation Width:** 450 mm

SUBSURFACE PROFILE		SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
-0.0	****	Ground Surface				
- - - -		FILL Silty clay, brown, low plasticity heterogeneous with inclusions of shale pieces, roadbase gravels and rootlets	0.1-0.2			
_		Silty Clay Yellow brown, medium plasticity, damp, heterogenous.	0.7-0.8			
1.0	x 	heterogenous. End Of Hole at 1.1 m bgs	_			
-2.0						
- - -4.0 -						
Sample	e Method	Sample Condition				

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	



Test Pit No.: TP58 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.2 m

Operator and Co.: Mike of Ken Cole

Eastings: -

Excavation Method: Excavator Log By: Tim Davis

Northings: Date: 25/11/2010

	SUBSURFACE PROFILE			SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations		
-0.0 - - - - -		Ground Surface FILL Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments, rootlets and glass pieces	0.1-0.2 QC3/3A			ACM observed (976 g)		
- -1.0 - - - - - -	**************************************	Silty Clay Yellow brown, medium plasticity, damp, heterogenous. End Of Hole at 1.2 m bgs						
- -2.0 - - - - - -								
- -3.0 - - - - - -								
- -4.0 -								

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		



Test Pit No.: TP61 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 0.9 m

Operator and Co.: Mike of Ken Cole

Eastings: -

Excavation Method: Excavator
Log By: Tim Davis

Northings: Date: 26/11/2010

SUBSURFACE PROFILE		SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
-0.0		Ground Surface				
-		FILL Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments and rootlets	0.1-0.2			ACM observed (115)
_ - -		Silty Clay Yellow brown, medium plasticity.				
1.0		End Of Hole at 0.9 m bgs				
-						
-						
-						
-2.0						
]			
-3.0 -						
-						
-						
F						
-4.0						
Sample	Sample Method Sample Condition					

Sample IVIetnoa	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		



Test Pit No.: TP66 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.0 m

The first

Eastings: -Northings: -

Date: 26/11/2010

Operator and Co.: Mike of Ken Cole

Excavation Method: Excavator

Log By: Tim Davis

SUBSURFACE PROFILE		SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
-0.0 - - - -		Ground Surface FILL Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments and rootlets	0.1-0.3	-		ACM observed (14 g)
- - - -1.0	× × × × × × × × × × × × × × × × × × ×	Silty Clay Yellow brown, medium plasticity, damp, heterogeneous End Of Hole at 1.0 m bgs				
- - - - - - -2.0						
- - - - - - - - 3.0						
- - - - - - -4.0						

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		



Test Pit No.: TP69 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.0 m

Operator and Co.: Mike of Ken Cole

Eastings: -

Excavation Method: Excavator Log By: Tim Davis

Northings: - **Date:** 26/11/2010

	SI	UBSURFACE PROFILE	SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
-0.0	N	Ground Surface FILL Silty clay, brown, heterogeneous, damp, firm, low plasticity with inclusions of ACM fragments glass and concrete Silty Clay Mottled orange brown grey, heterogeneous, damp, moderate plasticity with inclusions of mature roots End Of Hole at 1.0 m bgs	0.1-0.2	0		ACM observed (60 g)	
- - - - - - -4.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		



Test Pit No.: TP72 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.0 m

Operator and Co.: Mike of Ken Cole

Eastings: -

Excavation Method: Excavator
Log By: Tim Davis

Northings: - **Date:** 26/11/2010

	SUBSURFACE PROFILE		SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
-0.0 - - - -		Ground Surface FILL Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets and ACM fragments	0.1-0.2			ACM observed (67 g)	
- - - - -1.0	X X X X X X X X X X X X X X X X X X X	Silty Clay Yellow brown, medium plasticity, damp, heterogeneous End Of Hole at 1.0 m bgs	0.6-0.7				
- - - - - - -2.0							
- - - - - -3.0							
-4.0							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		



Test Pit No.: TP74 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.0 m

Operator and Co.: Mike of Ken Cole

Eastings: -

Excavation Method: Excavator

Log By: Tim Davis

Northings: -

Date: 26/11/2010

SUBSURFACE PROFILE		SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
-0.0	****	Ground Surface				
- - -		FILL Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of a few brick fragments and ACM fragments	0.1-0.2			ACM observed (54 g)
- - - -		Silty Clay Yellow brown, medium plasticity, damp, heterogeneous				
-1.0	× -	End Of Hole at 1.0 m bgs				
- - - - - - - - -						
- - - - - - -						
-3.0 - - - - - - -						
- -4.0 -						

Sample Method	Sample Condition	
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample	



Test Pit No.: TP77 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 0.8 m

Operator and Co.: Mike of Ken Cole

Eastings: -

Excavation Method: Excavator Log By: Tim Davis

Northings: -

Date: 30/11/2010

	SUBSURFACE PROFILE		SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations	
-0.0		Ground Surface FILL Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of glass fragments and ACM fragments Silty Clay Yellow brown	0.1-0.2 QC4/4A			ACM observed (64 g)	
- -1.0 - - - - - -		End Of Hole at 0.8 m bgs					
- -2.0 - - - - -							
- -3.0 - - - -							
- -4.0 -							

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		
, , , usin rusing			



Test Pit No.: TP79 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 1.0 m

Operator and Co.: Mike of Ken Cole

Eastings: - Excavation Method: Excavator

Northings: - Log By: Tim Davis

Date: 30/11/2010 **Excavation Width:** 450 mm

	SI	UBSURFACE PROFILE		SAMPLE				
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations		
-0.0	*****	Ground Surface						
_		FILL Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments and rootlet	0.1-0.2			ACM observed (686 g)		
- - -	x x x	Silty Clay Yellow brown, medium plasticity, damp, heterogeneous	0.5-0.6					
1.0	<u> </u>	End Of Hole at 1.0 m bgs						
-		•						
-								
<u></u>								
-2.0								
_								
-								
<u> </u>								
-3.0								
-								
_								
<u> </u> -								
-4.0								
Sample	Matha	Sample Condition						

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		



Test Pit No.: TP84 Location: Riverwood

Project: Riverwood North Renewal

Project No.: 41131 **Client:** MProjects

Project Manager: Sumi Dorairaj

Total Hole Depth: 0.9 m

Operator and Co.: Mike of Ken Cole

Eastings: - Excavation Method: Excavator

Log By: Tim Davis

Date: 30/11/2010

Northings: -

	SI	UBSURFACE PROFILE				SAMPLE
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
-0.0	A	Ground Surface FILL Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments, rootlets and glass fragments Silty Clay Orange yellow, medium plasticity, damp, heterogeneous End Of Hole at 0.9 m bgs	0.1-0.2 QC5/5A			ACM observed (59 g)
- - - - - -4.0						

Sample Method	Sample Condition		
HA - Hand Auger SFA - Solid Flight Auger HFA - Hollow Flight Auger PT - Push Tubing	U - undisturbed tube sample D - disturbed sample CS - core sample		



Appendix C Field Testpit Logs



Borehole # IPIO

							No <u>41131</u>			COMMENTS	
	Hole Depth Northing Easting									97	_
							***************************************			87 gr	5445
							ze				
	Dia _		. Lengtl	h		_ Type/Siz	ze	***************************************	····		
Drill	Со	1xch	<u> </u>	<u>e</u>		Method	j	11.0			
Driller	<u> 202</u>	7-	L	og By _	T.Davis		_ Date 24/1	MO Permit	#		
DEPTH (METRES)	WELL	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	_	RIPTION				
*							RASS CO		, brand	~, low	Plasticato
		0.1-	-0.2			DF AC	rodlet	is, gla ments	2005 frag	gments	plastical,
	.O .6					- SiH	T CLA	7,421	low b	roun,	lan-mel
	1.0						other,	, damp	, hete	Mgone	
								OF IM	165TT (CAR		
Description		Colour	Structu		Moisture	Cohesive So	oils	Sand & Gravel			Secondary
FILL CLAY SILT SAND GRAVEL	clayey silty sandy gravelly organic	red yellow white black brown	homog heterog stratifie laminal lens	geneaus ed	dry damp moist wet saturated	very soft soft firm stiff very stiff	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense	boulders cobbles coarse gravel fine gravel	poorly sorted (well graded) well sorted (poorly	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
TOPSOIL PEAT	organic	grey	root ho		Jarui dieu	hard		very dense	coarse sand	graded)	Contamination
. 271		III. Deller	0				***************************************				odour
							1				1



Borehole # TD20

Project	Riven	wood Nort	th Renewa		Project	No <u>41131</u>			COMMENTS		
Total H	ole Depi	th	North	ing		Easting					
Top of	Casing _		,	_ Water Leve	Vater Level Initial Static 48 greams						
Screen	: Dia		Length _		Type/Size						
						ze					
Drill						d <u> </u>					
Driller						_ Date 24/1		: #			
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	USCS CLASS	DESCI	RIPTION					
					<u> </u>	RASS (cover				
<u> </u>				<u></u>	E'I)	: 5114	clay	, loou	~, b	~ plasticity	
		01-0	0,2			27P / 1/2	theoe	poons	with	inclusion	
					_ 4	glass.	fragnes	ಶ್ರಡ	tlets, c	4cm	
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	0.8			<u> </u>			ditumoru (manadariama)				
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				<u> </u>	- plc	ity chi	, damp	beter	معموم	^ I	
		NS			*	(,	. ,	·)	<u> </u>	
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	.1.2			_							
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				<u> </u>	-						
Description		Colour	Structure	Moisture	Cohesive S	oils	Sand & Gravel		•••	Secondary	
FILL CLAY	clayey silty	red yellow	homogenous heterogeneo	dry	very soft soft	non-plastic low plasticity	very loose loose	boulders cobbles	poorly sorted (well graded)	and (35-50%) some (20-35%)	
SILT SAND	sandy gravelly	white	stratified laminated	moist wet	firm stiff	mod plasticity high plasticity	medium dense dense	coones coarse gravel fine gravel	well sorted (poorly	little (10-20%) trace (0-10%)	
GRAVEL TOPSOIL	organic	brown grey	lens root holes	saturated	very stiff	g plasticity	very dense	coarse sand	graded)	Contamination	
PEAT		mottled	occasional							odour	
			<u> </u>			<u> </u>			<u> </u>	50001	



Borehole # TP22

Project _.	Riverv	vood_North	Renewal	F	roject N	lo <u>41131</u>			COMMENTS	
Total H	ole Dept	h	Northing	Easting						
				Water Level Initial Static 27 gray						
Screen:	: Dia _		Length	**	Type/Siz	e		***************************************		
	Dia	L	ength		Type/Size					
Drill	Co	Ken.	<u>cole</u>		Method	EXCU	ico core			
Driller	ROPU	(Log By	T.Davis		_ Date	11/10 Permit	:#		
				1	<u> </u>					
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC	KETEKENCE) PID (PPM)	USCS CLASS	DESCR	IPTION				
					1 G	RASS	COVE	or enteres a samuel enteres and enteres	essentino e e e e e e e e e e e e e e e e e e e	e meninat i Sumahahang di Shiripenga kananan kelalah di Arabikan da manan dan kananan da kananan da kananan da
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	-1.75						ì			
	ا لب،،،				***************************************	energy transport (SEC) (risplant piemermuse general survene euro en entre euro en entre euro en escriberto de gampa	ned communication and a second annual second and principles of the second annual secon		rinda kipi di Samussana (1995), shili sasiliki qila ayan kalimin yara ayan (kalimidi ku sasilara yara 1 <mark>988).</mark>
					_ S\}	ty CLF	M/ 40	JIO 1	6 roun	, mediuh
				<u> </u>	Dla	ista et	- Dan	w. ho	tion on	´
		NS		<u> </u>	-		770,000	4116	محد محد	
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]	Emmonous.	······································			
	l				-					
					4					
Description		Colour	Structure	Moisture	Cohesive 5o	ile	Sand & Cervel			Carandan
FILL	clayey	red	homogenous	gry	very soft	non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT SAND	slity sandy gravelly	white :	heterogeneous stratified laminated		soft firm stiff	low plasticity mod plasticity	loose medłum dense	cobbles coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
GRAVEL TOPSOIL	organic	brown	iaminateo lens root holes	wet saturated	stiff very stiff hard	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%) Contamination
PEAT			occasional							
	<u></u>									adour

Contract to

IMSO Forms011 - Drilling Log



Borehole # TP23

Project_	Rivery	vood_Nort	h_Renewal		Project N	lo <u>41131</u>			COMMENTS	
Total Ho	ole Dept	h <u> </u>	Northin	J		Easting			_	
Top of (Casing _			Water Level	Initial		_ Static		6 9-	amy
Casing:	Dia _		Length		Type/Siz	e				
Drill	Co	Ken	cole		Method	Excar	1 Contract C			
Driller _	POR	<u> Y </u>	Log By	T.Davis		_ Date <u>24/1</u>	!∕\o Permit	#		
	Z		1	1						
DEPTH (METRES)	WELL CONSTRUCTIO	SAMPLE ID	REFERENCE) PID (PPM)	JSCS CLASS	DESCR	IPTION				
					G	RPS'S	COVER		hedrica (Colombia)	Management (see help to the control of the control
					Fill	: Sitty	clay	1 brow	~, la	platich
		91-0	.2		_\ <u>\</u>	mp, ha	sters	ولالعك	with	webson Glass
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<u> </u>	ĺ				-					
Description	i	Calgur	Structure	Moisture	Cohesive So	ils	Sand & Gravel			Secondary
FILL CLAY	clayey silty	red yellow	homogenous heterogeneous	dry damp	very soft	non-plastic low plasticity	very loose loose	boulders cobbles	poorly sorted	and (35-50%)
SILT SAND	sandy gravelly	white black	stratified laminated	moist wet	firm stiff	mod plasticity high plasticity	medium dense dense	coones coarse gravel fine gravel	(well graded) well sorted (poorly	some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic	brown grey	lens root holes	saturated	very stiff hard	g productory	very dense	coarse sand	graded)	Contamination
PEAT		mottled	occasional							
L		<u> </u>								odour

IMSO Forms011 - Drilling Log



Project _.	Riven	vood Nort	h Renewal		Project No <u>41131</u>			COMMENTS		
					Ea					
Top of	Casing _			Water Level	Initial	Static		S2 91	av-3	
Screen:	Dia _		Length		Type/Size					
Casing:	Dia _		Length		Type/Size	<u> </u>				
Drill	Co	Kein	cole.		Method ビメム	alutor				
Driller					T.Davis Date 25411/10 Permit #					
	_	, 					İ			
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. OA/OC	REFERENCE) PID (PPM)	USCS CLASS	DESCRIPTION					
					CARASE	COUER	idde henddornert Currenska. Inwidiophol ei bydgolodiolisiochdesich	SOCIALIS SAMBORNA DE PROGRESO A DE PROGRES ANTONOMISMO DE SAMBORA DE SAMBORA DE SAMBORA DE SAMBORA DE SAMBORA		
	.as	0.1-	0.2		FIII; Sitted damp, L Of Accom Silty c plasticit	reteroger frequent	eas w	oth me	lovoros ces	
	8.9					1.2	345	0.9 m		
Description FILL	clayey	Calour red	Structure homogenous	Moisture dry	Cohesive Soils very soft non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)	
CLAY SILT	silty	yellow white	heterogeneous stratified	damp moist	soft low plastic	ty loose	cobbles	(well graded)	some (20-35%)	
5AND	gravelly	black	laminated	wet	stiff high plastic	city dense	coarse gravel fine gravel	well sorted (poorly	little (10-20%) trace (0-10%)	
GRAVEL TOPSOIL	organic	brown grey	lens root holes	saturated	very stiff hard	very dense	coarse sand	graded)	Contamination	
PEAT		mottled	occasional						odour	
	<u> </u>	<u> </u>				<u>t</u>			0400,	



Borehole # TP25

Description O.9 O.5-O.6 Description O.9 O.5-O.6 Description Colour Structure Moleture Cohesive Soils Sand & Grave Description Contamination ELL CLAY yellow brown, Medium planticity molety sandy yellow sandy will will be started or molety wery suff molety molet	Top of Casing Water Level Initial Type/Size Casing: Dia Length Type/Size Method Driller ROQU Log By								No <u>41131</u>			COMMENTS	
Screen: Dia Length Type/Size Casing: Dia Length Type/Size Method Driller Co Ken Cake Method Date 214/11/10 Permit # DESCRIPTION DESCRIPTION O.1 - 0.2 DESCRIPTION O.1 - 0.2 DESCRIPTION O.3 - 0.5 O.5 - 0.6 DESCRIPTION DESCRIPTION O.5 - 0.6 Sifty Clay, Grown, law plantity Adamp, hoteogeness with inclusive O.5 - 0.6 Sifty Clay, Grown, law plantity O.5 - 0.6 Sifty Clay, Grown, law plantity O.5 - 0.6 Sifty Clay, Grown, law plantity O.5 - 0.6 Description O.5 - 0.6 Description O.5 - 0.6 Sifty Clay, Grown, Medium Description O.5 - 0.6 Sifty Clay, Yellow Grown, Medium Plantity O.5 - 0.6 Sifty Clay, Yellow Grown, Medium Description O.5 - 0.6 Sifty Clay, Yellow Grown, Medium Description O.5 - 0.6 Sifty Clay, Yellow Grown, Medium Description O.5 - 0.6 Sifty Clay, Yellow Grown, Medium Description O.5 - 0.6 Sifty Clay, Yellow Grown, Medium Description O.5 - 0.6 Sifty Clay, Yellow Grown, Medium O.5 - 0.5 O.5 - 0.6 Description O.6 - 0.5 Sifty Clay, Yellow Grown, Medium O.7 - 0.5 O.8 - 0.6 Sifty Clay, Yellow Grown, Medium O.9 - 0.4 Sifty Clay	Screen: Dia Length Type/Size Ording: Dia Length Type/Size Wethord Driller Co Ken Coke Method Date 214/11/10 Permit # Description Wethord Date 214/11/10 Permit # Description Onl-0.2 Description Onl-0.3 Onl-0.3 Description Onl-0.3 Descrip											.	
Casing: Dis Length Type/Size Method Road Log By IDay/Size Method Road Road Road Road Road Road Road Ro	Casing: Dis Length Type/Size Method ROQU Log By IDBUS Date 24/11/10 Permit # Date 24/11/10 Permit #						•					49 9	رحمس
Description O. 1 - O. 2 Description O. 1 - O. 2 Description O. 1 - O. 2 Description O. 1 - O. 2 Description O. 1 - O. 2 Description O. 1 - O. 2 Description O. 2 - O. 4 Description O. 3 - O. 4 Description O. 4 - O. 5 Description O. 5 - O. 4 Description O. 6 - O. 5 Description O. 7 - O. 5 Description O. 7 - O. 6 Description O. 7 - O. 7 Description O. 7 - O. 8 Description O. 8 - O. 4 Description O. 9 - O. 5 Description O. 9	Description Differ ROBY Log By TDavis Determined ROBY Log By TDavis Determined Description												
Description Color Studies Sold Studies Sold Studies Sold Description Part Description Descript		Dia _	المرماء	Lengt در	:n		_ Type/Siz	e					
DESCRIPTION STATE CLAY, brown, low planticity O.1-0.2 DESCRIPTION STATE CLAY, brown, low planticity damp, hoterogeness with inclusive Of rottets, for any fragults O.5-0.6 DESCRIPTION STATE CLAY, brown, low planticity damp, hoterogeness with inclusive of rottets, for any fragults O.5-0.6 DESCRIPTION STATE CLAY, brown, low planticity damp, hoterogeness with inclusive of rottets, for any fragults O.5-0.6 DESCRIPTION STATE CLAY, brown, low planticity of rottets, for any fragults one of the control of the county	DESCRIPTION STATE CLAY, brown, low plantists O.1-0.2 O.5-0.6 DESCRIPTION STATE CLAY, brown, low plantists Adamp, baterogeness with inclusive O.5-0.6 DESCRIPTION STATE CLAY, brown, low plantists Adamp, baterogeness with inclusive O.5-0.6 DESCRIPTION STATE CLAY, brown, low plantists Adamp, baterogeness with inclusive O.5-0.6 DESCRIPTION STATE CLAY, brown, low plantists O.5-0.6 SAHY CLAY, yellow brown, mediving plantists O.5-0.6 DESCRIPTION STATE CLAY, brown, low plantists O.5-0.6 SHIP CLAY, brown, low plantists O.5-0.6 SHIP CLAY, brown, low plantists O.5-0.6 DESCRIPTION STATE CLAY, brown, low plantists O.5-0.6 SHIP CLAY, brown, low plant		6 7 0	- Reco	<u>د رير</u>	0	T.D	Method	211	11/10 - "	n		
O.1-0.2 Cally Cal	Consider Stretcher Consider Stretcher Consider South Consider Cons	Driller _	400 M	~ [L	LOG BY _	1.Davis		_ Date	<u>vij vo</u> Permit	#		
Description O. 1 - 0.2 Colour Stricture Molisture Cohesive Soils Sand & Cravel Colour Company Cohesive Soils Colour Streetier Molsture Cohesive Sells CAN BUT Yellow Brown, Medicing Molsture Cohesive Sells CAN BUT Yellow Brown Miles Cohesive Sells CAN BUT Yello	DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS					,,,,,		
Description O.9 O.5-O.6 Description O.9 O.5-O.6 Description Colour Structure Moleture Cohesive Soils Sand & Grave Description Contamination ELL CLAY yellow brown, Medium planticity molety sandy yellow sandy will will be started or molety wery suff molety molet	Description O.5-0.6 Description O.5-0.6						├ -	-	RASS	cover			
Description Colour Structure Moisture Cohesive Soils Sand & Gravel FILL Clayer silty sandy white Statuted homogenous heterogeneous stratified provided organic DFSOIL pear mottled prot from the moist moist month of the moist moist moist moist moist moist moist lens organic provided organic pear mottled occasional moist lens moist lens moist lens adjusted that the moist lens saturated by the	Description Colour Structure Moisture Cohesive Soils Sand & Gravel FILL Clayey red sility sandy white Stand white Stand white Stand white Stand black Drown gravelly organic DroSoil Drown moist PEAT Cohesive Soils Sand & Gravel Cohesive Soils Sand & Gravel Cohesive Soils Sand & Gravel Cohesive Soils Sand & Gravel Very soft low plasticity mod plasticity with plasticity with plasticity with plasticity wery dense cohesis cohes		o :5	v				dav	rootle	teroge	way	noth	inclusion sucuts
t a la la dour l		Description FILL CLAY SILT SAND GRAVEL TOPSOIL	clayey silty sandy gravelly	red yellow white black brown grey	homo- hetero stratif famini lens root h	genous ogeneous Ted ated ioles	dry damp moist wet	Cohesive Sc very soft soft firm stiff	oils non-plastic low plasticity mod plasticity	Sand & Gravel very loose loose medium dense dense	boulders cobbles coarse gravel fine gravel	poorly sorted (well graded) well sorted (poorly	Secondary and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination



Borehole # TP2-6

Project <u>Riverwood North R</u>	tenewal	Project No 41131	COMMENTS			
Total Hole Depth	Northing	Easting				
Top of Casing	Water Level	InitialStatic	116 gravs			
Screen: Dia Le	Length Type/Size					
Casing: Dia Len	ngth	Type/Size				
Drill Co Keen	cole	Method				
Driller RORY	Log By T.Davis					
·		· · · · · · · · · · · · · · · · · · ·				
DEPTH (METRES) WELL CONSTRUCTION SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM) USCS CLASS	DESCRIPTION				
0.1-0.		Fill: Silty day, lo damp, noterogen of rootlets, plast Silty day, ye media volution	Jan bran, hoterogrea			
	ucture Moisture	END OF INVESTI				
CLAY silty yellow het SILT sandy white str. SAND gravelly black lan GRAVEL organic brown lan TOPSOIL grey roo	mogenous dry damp attified moist inlated wet saturated stational	soft low plasticity loose col firm mod plasticity medium dense col stiff high plasticity dense fine	pulders poorly sorted (well graded) some (20-35%) some (20-35%) some (20-35%) little (10-20%) trace (0-10%) graded) Contamination			



Silty clay, yellow brown, medium plasticity, dump, heterogeness [1.1] [Sub of Investigation 1.]m 0415 0.7	Top of Casing Water Level Initial Static 1104 greens Screen: Dia Length Type/Size 1799/Size 179	Project	Riven	vood No	rth Rei	newal		Project I	No <u>41131</u>			COMMENTS	
Screen: Dis Length Type/Size Casing: Dis Length Type/Size Dill Co Ken Cde Method Driller Reary Log By T.Davis Date 24411(11) Permit # DESCRIPTION DESCRIPTION CARPAS CONER FILL: Sity Clay, brann, law plasticity, damp, reterogeness with inclusions resided, large quantity on Acm Fagnetis Sity Clay, yellar brain, median plasticity, damp, heterogeness Screen: Die Length Type/Size Casing: Die Length Type/Size Drill Co Ken Cale Method Driller Racky Log By T.Davis Date 224/11/10 Permit # Harring Die Length Type/Size Method Date 224/11/10 Permit #	Total H	ole Depi	:h		Northing	l		Easting			Neu-		
Casing: Dis Length Drill Co Ken ede Method Driller Reacy Log By T.Davis Description 19	Casing: Die Length Type/Size Method Driller Rady Log By IDavis Date 24/11/10 Permit # DESCRIPTION DESCRIP	Top of	Casing _			v	Vater Leve	l Initial		_ Static		1104 9	(C)
Driller Reary Log By I Davis Date 224/11/10 Permit #	Description Differ Reserve Log By T. Davis Description Reserve Log By T. Davis Description Description CTRASS CONER FILL: Sith Clay, brown, la plasticity, damp, reterogeneous with inclusion roches on the inclusion of the plasticity, damp, reterogeneous with inclusion roches on the inclusion of the plasticity, damp, reterogeneous with inclusion roches on the inclusion of the plasticity, damp, reterogeneous with inclusion roches on the inclusion of the plasticity, damp, reterogeneous with inclusion of the plasticity, damp, reterogeneous with inclusion of the plasticity, damp, reterogeneous with inclusion of the plasticity of the pl	Screen	: Dia _		_ Leng	ith		Type/Si	ze				
Driller Reary Log By I Davis Date 224/11/10 Permit #	Description Differ Reserve Log By T. Davis Description Reserve Log By T. Davis Description Description CTRASS CONER FILL: Sith Clay, brown, la plasticity, damp, reterogeneous with inclusion roches on the inclusion of the plasticity, damp, reterogeneous with inclusion roches on the inclusion of the plasticity, damp, reterogeneous with inclusion roches on the inclusion of the plasticity, damp, reterogeneous with inclusion roches on the inclusion of the plasticity, damp, reterogeneous with inclusion of the plasticity, damp, reterogeneous with inclusion of the plasticity, damp, reterogeneous with inclusion of the plasticity of the pl	Casing:	Dia		_ Lengt	:h		_ Type/Siz	ze				
Driller Reary Log By T.Davis Date 244/1/11 Permit # Company Description	Description Descr	Drill	Co	Ker	_ <	حد		Method	ł				
DESCRIPTION CTRASS COVER Fill: 51th Clay, brown, la plasticity, damp, reterogeneous unterindusions fragments O.1-0.2 Silty Clay, tellar brown, median plasticity, damp, heterogeneous Silty Clay, tellar brown, median plasticity, damp, heterogeneous III	Description Description Description Description Description Description Description CTRASS COVER Fill: Sith Clay, brain, low planticity, dawnp, neterogeneous unter inclusion contains of the containing and the conta	Driller	ROP	<u></u>	!	Log By	T.Davis		_ Date	UIO_Permit	:#		
CTRASS COVER FILL SITY Clay, brown, low plasticity, damp, neterogeness with inclusions rootlets, large quantity on Acm fagnets Sitty Clay, rellaw brown, median plasticity, damp, heterogeness 111 END OF INVESTIGATION (1)m OLIS O.7	CTRASS COVER FILL: SiHy clay, brann, la plasticity, damp, neterogeness unth inclusion rathets, large quantity on Acm (agreets) SiHy clay, yellow brann medium plasticity, damp, neterogeness SiHy clay, yellow brann medium plasticity, damp, neterogeness SiHy clay, yellow brann medium plasticity, damp, neterogeness SiHy clay, yellow brann medium plasticity, damp, neterogeness, damp sint morphistic morphistic medium democratic medium democr					T	1		<u> </u>				
Fill: Sity clay, brown, la plasticity, damp, reterogeneous with inclusions rootlets, large quantity on Acm Fagnets Sity clay, yellow brown, median plasticity, damp, heterogeneous III END OF INVESTIGATION (III) 1.7 O.77	COT Color Struture Moisture Cohesive Soils Sand & Gravel Moisture Cohesive Soils Sand & Gravel Color Control Color Co	DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	(INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCR	RIPTION		, , , , , , , , , , , , , , , , , , , ,		
Silty Clay, yellow brown, median planticity, dump, heterogeness	Description Colour Structure FILL CLAY CLAY AND PRODUCTION PRODUCTION AND OLLS ON ON OLLS SITY CLAY AND PRODUCTION PRODUCTION AND OLLS ON ON OLLS SITY OLLS SITY ON OLLS COLORS COLORS SOM OLLS SITY ON OLLS COLORS COLOR							- C	RASS (COVER	No art hills style memority or account on a succession account or a succession account or a succession account	aasteri er eaan kissaa ir ir ir ir ir ir aasteriaan si tiri eressä (ir i	enterative state to the control of t
Silty Clay, yellow brown, median planticity, dump, heterogeness	Description Colour Structure FILL CLAY CLAY AND PRODUCTION PRODUCTION AND OLLS ON ON OLLS SITY CLAY AND PRODUCTION PRODUCTION AND OLLS ON ON OLLS SITY OLLS SITY ON OLLS COLORS COLORS SOM OLLS SITY ON OLLS COLORS COLOR							FIN	: Sitty	clay, 1	oran,	10 p	lasticity,
Silty clay, yellow brown, medium plasticity, dump, heterogeness [1.1] END OF INVESTIGATION 1.7m 04+5 0.7	Description Colour Structure Moisture Cohesive Soils FILL SIND OF INVESTIGATED (1) O.7 FILL SIND OF INVESTIGATED (1) O						-	- dav	~p,√ē	teroge	, oden	noten.	~
Silty clay, yellow brown, medium plasticity, dump, heterogeness [1.1] END OF INVESTIGATION 1.7m 04+5 0.7	Description Colour Structure Moisture Cohesive Soils FILL SIND OF INVESTIGATED (1) O.7 FILL SIND OF INVESTIGATED (1) O			0.1-	0.2				lets 1	inse an	iantety	na Ar	· •.•3,000
Silty clay, yellow brown, medium plasticity, dump, heterogeness [1.1] END OF INVESTIGATION 1.7m 04+5 0.7	Description Colour Structure Moisture Cohesive Soils FILL SIND OF INVESTIGATED (1) O.7 FILL SIND OF INVESTIGATED (1) O							Con	100 F	an A.	1		4 (
Silty Clay, yellow brown, median plasticity, damp, heterogeness [1.1] [NO OF INVESTIGATION 1.7m 0445 0.7	Description Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sall Sall Sall Sall Sall Sall Sal						<u> </u>	- 46 to	رن دسه ۱				
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Silty Clay, yellow brown, median plasticity, damp, heterogeness [1.1] [NO OF INVESTIGATION 1.7m 0445 0.7	Description Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sand & Gravel Oct. Colour Structure Moisture Cohesive Salls Sall Sall Sall Sall Sall Sall Sal	******* ·	04				 						
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END OF INVESTIGATION I.IM OHS ON	Description Colour Structure Moisture Cohesive Soils CLAY Silty Sandy vellow white SILT SAND GRAVEL Gravel brown gravelly GRAVEL Gravel brown gravelly GRAVEL organic Gravel brown gravel proving GRAVEL GRAVEL TOPSOIL] sil	ty cla	yell yell	می کی	swh w	vedlija.	
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END OF INVESTIGATION I.IM OHS ON	Description Colour Structure Moisture Cohesive Soils CLAY Silty Sandy vellow white SILT SAND GRAVEL Gravel brown gravelly GRAVEL Gravel brown gravelly GRAVEL organic Gravel brown gravel proving GRAVEL GRAVEL TOPSOIL		NS			<u> </u>	1 80	suces,	amp	, hete	-690-er		
	Description Colour Structure Moisture Cohesive Soils Sand & Gravel Clay Silty yellow silty yellow white stratified sandy GRAVEL organic GRAVEL organic GRAVEL organic TOPSDIL						<u> </u>						
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	Description Colour Structure Moisture Cohesive Soils Sand & Gravel Clay Silty yellow silty yellow white stratified sandy GRAVEL organic GRAVEL organic GRAVEL organic TOPSDIL						<u> </u>	7 6	$n\rho$ ob	INVEST	16,ATOW	Lilm	
	Description Colour Structure Moisture Cohesive Soils Sand & Gravel Clay Silty yellow silty yellow white stratified sandy GRAVEL organic GRAVEL organic GRAVEL organic TOPSDIL								12	<i>U+</i> +2	1		
Description Colour Structure Moisture Cohesive Soils Sand & Gravel Secondary	FILL clayey red homogenous dry very soft low plasticity sandy gravelly organic TOPSDIL root holes grey root holes damp root holes dry very soft saturated low plasticity organic root holes root for homogenous dry very soft low plasticity low plasticity medium dense coarse gravel (well graded) some (20-35%) some (20-35%) well sorted little (10-20%) trace (0-10%) root holes root holes for homogenous damp soft low plasticity medium dense coarse gravel fine gravel (poorly trace (0-10%) graded) SILT sandy white stratified muist firm mod plasticity high plasticity high plasticity very dense very dense root holes for modely proving from the proving fr								(0.7		
Description Colour Structure Moisture Cohesive Soils Sand & Gravel Secondary	FILL clayey red homogenous dry very soft low plasticity sandy gravelly organic TOPSDIL root holes grey root holes damp root holes dry very soft saturated low plasticity organic root holes root for homogenous dry very soft low plasticity low plasticity medium dense coarse gravel (well graded) some (20-35%) some (20-35%) well sorted little (10-20%) trace (0-10%) root holes root holes for homogenous damp soft low plasticity medium dense coarse gravel fine gravel (poorly trace (0-10%) graded) SILT sandy white stratified muist firm mod plasticity high plasticity high plasticity very dense very dense root holes for modely proving from the proving fr				İ		<u> </u>			— í			
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Description Colour Structure Moisture Cohesive Soils Sand & Gravel Secondary	FILL clayey red homogenous dry very soft low plasticity sandy gravelly organic TOPSDIL root holes grey root holes damp root holes dry very soft saturated low plasticity organic root holes root for homogenous dry very soft low plasticity low plasticity medium dense coarse gravel (well graded) some (20-35%) some (20-35%) well sorted little (10-20%) trace (0-10%) root holes root holes for homogenous damp soft low plasticity medium dense coarse gravel fine gravel (poorly trace (0-10%) graded) SILT sandy white stratified muist firm mod plasticity high plasticity high plasticity very dense very dense root holes for modely proving from the proving fr						<u> </u>	-					
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Description Colour Structure Moisture Cohesive Soils Sand & Gravel Secondary	FILL clayey red homogenous dry very soft low plasticity sandy gravelly organic TOPSDIL root holes grey root holes damp root holes dry very soft saturated low plasticity organic root holes root for homogenous dry very soft low plasticity low plasticity medium dense coarse gravel (well graded) some (20-35%) some (20-35%) well sorted little (10-20%) trace (0-10%) root holes root holes for homogenous damp soft low plasticity medium dense coarse gravel fine gravel (poorly trace (0-10%) graded) SILT sandy white stratified muist firm mod plasticity high plasticity high plasticity very dense very dense root holes for modely proving from the proving fr						- -						
	CLAY SILTy sandy SILTy sandy gravelly GRAVEL TOPSDIL T		· · · · · · · · · · · · · · · · · · ·							Sand & Gravel			Secondary
CLAY silty yellow heterogeneous damp soft low-plasticity loose cobbles (well graded) some (20-35%)	SILT sandy white stratified moist firm mod plasticity medium dense coarse gravel well sorted little (10-20%) SAND gravelly black laminated wet stiff high plasticity dense fine gravel (poorly trace (0-10%) TOPSDIL grey root holes saturated to roughly graded) Contamination	CLAY	silty	yellow	hetero	geneous	damp	soft	low plasticity	loose	cobbles	(well graded)	some (20-35%)
SILT sandy white stratified moist firm mod plasticity medium dense coarse gravel well sorted little (10-20%) SAND gravelly black laminated wet stiff high plasticity dense fine gravel (poorly trace (0-10%)	TOPSDIL grey root holes hard Contamination	SAND	gravelly	black	lamina		wet	stiff		dense	fine gravel	(poorly	little (10-20%)
TOPSDIL grey root holes hard Contamination	niotteo occasional	TOPSOIL	organic	grey	root h		saturated			very dense	coarse sand	graded)	Contamination
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Project _.	Riverv	vood Nor	th Ren	iewal		Project I	No <u>41131</u>		***************************************	COMMENTS	
										INCE	
								_ Static		1022	Sterra
Screen:	Dia	······	Leng	th		Type/Si	ze				
	Dia _	· ·	Lengt	h \		_ Type/Siz	ze	. 1 .			
Drill							EXCAU		***************************************		
Driller	KOR	7	L	og By	T.Davis		_ Date	(11/10) Permit	#		
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESCR	RIPTION				
						- G	RASS (COVER			
		0.1-	-0.2			Fill dar of	i sity up, he' routle	clay, reoge ts, nu	brown ners	· · la ·	plasticity inclusions frequent
	0.9	NS				Silt pla	ry chr struty.	J, pel, damp	lor 6, hote	roun, '	medium -00
National Control of Co	.1.2					-	(1.2)	0,42 120/21	10.8	O- 1,2	4~
Andrews Versions)		
Description	· · · · · · · · · · · · · · · · · · ·	Colour	Structu		Moisture	Cohesive So	·	Sand & Gravel			Secondary
FILL CLAY SILT SAND	clayey silty sandy gravelly	red yellow white black	stratifie Iaminal	geneous ed	dry damp moist wet	very soft soft firm stiff	non-plastic low plasticity mod plasticity high plasticity	very loose loose medlum dense dense	boulders cobbles coarse gravel fine gravel	poorly sorted (well graded) well sorted (poorly	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL PEAT	organic	brown grey	lens root ho		saturated	very stiff hard		very dense	coarse sand	graded)	Contamination
LEWI		mottled	occasio	aldi			***				odour



Total Ho Top of G Screen: Casing: Drill	ole Depl Casing _ Dia _ Dia _ Co	th_	Leng Lengt	Northing v th	Vater Leve	Initial Type/Siz Type/Siz	Ze EXCAV	Static		COMMENTS 288	grams
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESC	RIPTION				
	J.O.	0.1-	0.2		Moistura	FUIL DIEN	ND OF	Clay, leoger 3, non	on boo	un, we erosew	
Description FILI. CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey sility sandy gravelly organic	Colour red yellow white black brown grey mottled		enous geneous ed ited	Moisture dry damp moist wet saturated	Cohesive So very soft soft firm stiff very stiff hard	ilis non-plastic low plasticity mod plasticity high plasticity	Sand & Gravel very loose loose medium dense dense very dense	boulders cobiles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	Secondary and (35-50%) some (20-35%) little (40-20%) trace (0-10%) Contamination



Borehole # 1731

Total H Top of Screen: Casing:	ole Depi Casing _ : Dia _ Dia _ Co	th	Length _	ning Water Leve	Project No 41131 COMMENTS					na
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	USCS CLASS	DESC	RIPTION				
	رز. «	0.6-0),2		Fill	RASS (F) Not Hets A END O	clay, terogen four A	ers h	roun,	plooticity clusions medium as
Description	clayey	Colour red	Structure	Moisture	Cohesive S		Sand & Gravel	Lippulder	- Docky Corted	Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	silty sandy gravelly organic	red yeilow white black brown grey mottled	homogenou heterogene stratified laminated lens root holes occasional		very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination



Project_	River	wood Nor	th Renewal		Project I	No <u>41131</u>			COMMENTS	
						Easting			20	
Top of	Casing _			Water Leve	l Initial		_Static		23 gr	2000
Screen:	: Dia _		Length		_ Type/Si	ze				
Casing:	Dia _		Length		Type/Si:	ze		~~~~		
Drill	Co	<u> </u>	<u>cde</u>		Metho	d				
Driller	ROG	<u>~}</u>	Log By	T.Davis		Date 24	<u>\\ \\ O</u> Permit	: #		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE) PID (PPM)	USCS CLASS	DESC	RIPTION				
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Description FILL		Colour	Structure	Moisture	Cohesive So		Sand & Gravel			Secondary
CLAY SILT	clayey silty sandy	yellow white	homogenous heterogeneou stratified	dry damp moist	very soft soft firm	non-plastic low plasticity	very loose loose medium dense	boulders cobbles	poorly sorted (well graded)	and (35-50%) some (20-35%)
SAND GRAVEL	gravelly organic	black brown	laminated lens	wet saturated	stiff very stiff	mod plasticity high plasticity	dense	coarse gravel fine gravel	well sorted (poorly	little (10-20%) trace (0-10%)
TOPSOIL PEAT	organic	grey mottled	root holes occasional	Sernigran	hard		very dense	coarse sand	graded)	Contamination
		,sujeu	30003.01101							odour



Project	Rivery	wood_Nor	<u>th Rene</u>	ewal		Project N	lo <u>41131</u>			COMMENTS	
Total H	ole Dept	:h	N	orthing	***************************************		Easting			-	
Top of	Casing _			W	/ater Level	Initial		Static		727	grevy
Screen	: Dia _		_ Lengti	h	***************************************	Type/Siz	e				
	Dia		Length	1		Type/Siz	e				
Drill	Co	Ken	cde			Method	Excarc	-tor			
Driller	ROR		Lc	og By _	T.Davis		Date 24/	<u> </u>	#		
		-			1		•			·····	
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESCR	IPTION				
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Description		Colour	Structur		Moisture	Cohesive So		Sand & Gravel			Secondary
FILL CLAY SILT	clayey	red yellow	homoge heteroge	eneous	dry damp moist	very soft soft	non-plastic low plasticity	very loose loose	boulders cobbles	poorly sorted (well graded)	and (35-50%) some (20-35%)
SAND GRAVEL	sandy gravelly organic	white black brown	stratified laminate lens		moist wet saturated	firm stiff	mod plasticity high plasticity	medium dense dense	coarse gravel fine gravel	well sorted (poorly	little (10-20%) trace (0-10%)
TOPSOIL PEAT	organic	grey	root hole occasion		307019(60	very stiff hard		very deлse	coarse sand	graded)	Contamination
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	L				I	·					



Project _.	Riven	wood Nor	th Renev	val		Project 1	No <u>41131</u>			COMMENTS	
										1017	
								_Static		c 2101	Como
Screen:	: Dla _		Length			Type/Siz	ze				
Casing:	Dia _		Length			Type/Siz	e				
Drill	Co	Ken	<u> </u>	<u>e</u>		Method	EXCAVA	40			
Driller	ROBY	7	Log	ву_	T.Davis		_ Date <u> </u>	N/ND Permit	#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS		RIPTION				
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Description FILL	clayey	Colour red	Structure homogeni		Moisture dry	Cohesive So	:	Sand & Gravel	hauldom	nond: : cart = 4	Secondary
CLAY SILT	silty sandy	yellow white	heterogen stratified	neous	damp moist	very soft soft firm	non-plastic low plasticity mod plasticity	very loose loose medium dense	boulders cobbles coarse gravel	poorly sorted (well graded) well sorted	and (35-50%) some (20-35%)
SAND GRAVEL	gravelly organic	black brown	laminated lens		wet saturated	stiff very stiff	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	little (10-20%) trace (0-10%)
TOPSOIL PEAT		grey mottled	root holes occasiona			hard		,		J/	Contamination
											odour



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Drill	Co _	Kew '	COLE		Method	· =		 		
Driller	200		Log By	T.Davis	, , , , , ,	Date 241	1110 Permit	#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC	REFERENCE) PID (PPM)	USCS CLASS		IPTION				
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Description		Colour	Structure	Moisture	Cohesive So		Sand & Gravel	1		Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL	clayey silty sandy gravelly organic	red yellow white black brown grey	homogenous heterogeneous stratified laminated lens root holes	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination
PEAT		mottled	occasional							odour
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Project	Rivery	vood_No	orth_Re	newal		Project N	lo <u>41131</u>		······································	COMMENTS	
Total H	ole Dept	:h		Northing			Easting	J		270	7 a.a.
Top of	Casing _			v	Vater Level	Initial		_ Static		279	الوسي
Screen:	: Dia _		_ Leng	yth	***************************************	Type/Siz	e				
Casing:	Dia _		Leng	th		Type/Siz	e				
Drill	Co	Ke	in a	_ عاد		Method	<u> </u>				
Driller	<u> M</u>	LK		Log By	T.Davis		_ Date <u>75/</u>	11 10 Permit	#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	(INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCR	IPTION				
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Description	•••••	Colour	Struc		Moisture	Cohesive So		Sand & Gravel			Secondary
FIŁL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	heter strati lamin lens root l	ated 10les	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination
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Project _.	Riven	vood North	Renewal		Project N	lo <u>41131</u>		***************************************	COMMENTS	
Total H	ole Depi	:h	Northing			Easting			790	
Top of	Casing _	***************************************	\	Vater Level	Initial		Static		· ·	1
Screen:	Dia _	L	ength		Type/Siz	e			800	
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		***************************************	Log By	T.Davis		Date	Permit	#	2.329	leca
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC RFEER EN/CF)	PID (PPM)	USCS CLASS	DESCR	RIPTION			_	
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Description FILL	clayey		tructure omogenous	Moisture dry	Cahesive So very soft	ils non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT SAND	silty sandy gravelly	yeilow h white s black li	eterogeneous tratified iminated	damp moist wet	soft firm stiff	flow plasticity mod plasticity high plasticity	loose medium dense dense	cobbles coarse grave! fine grave!	(well graded) well sorted (poorly	some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic	grey r	ens oot holes	saturated	very stiff hard		very dense	coarse sand	graded)	Contamination
PEAT		mottled a	ccasional							adour
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Borehole # TPLIO

						No <u>41131</u>			COMMENTS	
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Driner	1 000	~	LOY BY	I.Davis		_ Date _ <u>11</u>	rr re Permit	#		0, ,
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCR	EIPTION				
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Description		Colour Si	тистиге	Moisture	Cohesive So	ils	Sand & Gravel			Secondary
FILL CLAY	clayey silty	red ho	mogenous eterogeneous	dry damp	very soft	non-plastic low plasticity	very loose loose	boulders cobbles	poorly sorted (well graded)	and (35-50%) some (20-35%)
SILT SAND	sandy gravelly	white st	ratified minated	moist wet	firm stiff	mod plasticity high plasticity	medium dense dense	coones coarse gravel fine gravel	(well graded) well sorted (poorly	some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic	brown le grey ro	ns ot holes	saturated	very stiff hard		very dense	coarse sand	graded)	Contamination
PEAT		mottled or	casional							odour
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Project	_River	vood Nort	th Renew	al		Project N	lo <u>41131</u>			COMMENTS	
Total H	ole Dept	:h	Nor	thing			Easting				
Top of	Casing _	***************************************		Wate	r Level	Initial		Static	***************************************	195 90	amy
Screen:	Dia _		Length			Type/Siz	:e				
Casing:	Dia _		Length ,			Type/Siz	e				
Drill	Co	Kon	حصاف			Method	! <u>_</u>	<u> </u>			
Driller	MUL	κ	Log	Ву <u>Т.С</u>	avis		_ Date 25/1	\\\\lambda\\\\\lambda\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	(PPM)	ISCS CLASS	DESCR	IPTION				
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Description		Colour	Structure	Mo	isture	Cohesive So	ils	Sand & Gravel			Secondary
FILL CLAY	clayey silty	red yellow	homogeno heterogena	us dry		very soft soft	non-plastic low plasticity	very loose loose	boulders cobbles	poorly sorted (well graded)	and (35-50%) some (20-35%)
SILT SAND	sandy gravelly	white black	stratified laminated	mo we	ist	firm stiff	mod plasticity high plasticity	medium dense dense	coones coarse gravel fine gravel	well sorted (poorly	some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic	prown	lens root holes		urated	very stiff hard	g.r prastiaty	very dense	coarse sand	graded)	Contamination
PEAT		mottled	occasional			··-·					
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Project_	<u>Riven</u>	vood Nort	h Rei	newal		Project N	No <u>41131</u>			COMMENTS	ł
Total H	ole Dept	:h		Northing			Easting	-			
Top of (Casing _			V	ater Leve	Initial		Static		410	gams
Screen:	Dia _		Leng	jth		Type/Siz	ze				0
Casing:	Dia		Lengt	th		_ Type/Siz	e				
Driller				Loa By	T.Davis		 _ Date2 <u>5/1</u>	/10 Permit	#		
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. OA/OC	REFERENCE)	PID (PPM)	USCS CLASS	DESCR	LIPTION				
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Description		Colour	Struct	ture	Moisture	Cohesive So	ils	Sand & Gravel			Secondary
FILL CLAY	clayey silty	red yellow	homo	genous ogeneous	dry damp	very soft	non-plastic low plasticity	very loose loose	boulders cobbles	poorly sorted	and (35-50%)
SILT SAND	sandy gravelly	white black	stratif iamin	led .	moist wet	firm stiff	mod plasticity high plasticity	medium dense dense	coones coarse gravel fine gravel	(well graded) well sorted (poorly	some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic	brown grey	lens root h		saturated	very stiff hard	mgn piasticity	very dense	coarse sand	graded)	Contamination
PEAT		mottled	occasi			,,,,,,					
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-			h Renewal		•				COMMENTS	
						Easting			29 90	**~ 6
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Casing:	Dia _		Length		Type/Siz	e				
Drill	Co				Method		·-,			
Driller ,			Log By .	T.Davis		Date <u>25/1</u>	<u>//() </u>	#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC	REFERENCE) PID (PPM)	USCS CLASS	DESCR	IPTION				
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Description FILL	clayey	Colour red	Structure homogenous	Moisture dry	Cohesive So very soft	ils non-plastic	Sand & Gravel very loose	bouiders	poorly sorted	Secondary and (35-50%)
CLAY SILT SAND GRAVEL	silty sandy gravelly organic	yellow white black brown	heterogeneous stretified laminated lens	damp moist wet saturated	soft firm stiff very stiff	low plasticity mod plasticity high plasticity	loose medium dense dense very dense	cobbles coarse gravel fine gravel coarse sand	(well graded) well sorted (poorly graded)	some (20-35%) little (10-20%) trace (0-10%)
TOPSOIL PEAT		grey mottled	root holes occasional		hard					
]	<u> </u>								odour



Total He	ole Dept	th	r	Northing			No_41131 Easting	***************************************		comments 27 gr	:v~s
Screen: Casing:	: Dia _ Dia _	Ken	Leng Lengt اکت	gth th	***************************************	Type/Siz	ze ze	***************************************			
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. OA/OC	REFERENCE)	PID (PPM)	USCS CLASS	DESCF	RIPTION				
							ZASS C	***************************************		nannamurug a manimurus bahka kalana a amanimura k	Access Agency Committee Control of Control o
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Description FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic			igenous ogeneous fied lated noles	Moisture dry damp moist wet saturated	Cohesive Solvery soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	Sand & Gravel very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	Secondary and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination



Project	Riven	<u>noN_boow</u>	th Ren	iewal		Project N	No <u>41131</u>			COMMENTS	
Total H	ole Depi	th		Northing			Easting			lata a	
Top of	Casing .			V	Vater Leve	Initial		Static	***************************************	66 g	-ems
Screen:	: Dia _		Leng	th	***************************************	Type/Siz	ze				
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Driller			L	og By	T.Davis		Date <u>25/1</u>	i/IO Permit	#		
		γ			.,						
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	(INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCR	RIPTION				
						G	rrass ,	cover			
	0.75	0.1-	0.2			aar of	rostlet	teroger 3		with 11	-stacity, nelvisións , mediun
Description FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	Colour red yellow white black brown grey mottled	Structi homog hetero stratifi lamina lens root ho occasic	jenous geneous ed ited	Moisture dry damp moist wet saturated	Cohesive So very soft soft firm stiff very stiff hard	nils non-plastic low plasticity high plasticity	0.45		poorly sorted (well graded) well sorted (poorly graded)	Secondary and (35-50%) some (20-35%) iittle (10-20%) trace (0-10%) Contamination
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Project	Riven	vood_Nor	th Ren	iewal		Project 1	No <u>41131</u>			COMMENTS	
Total H	ole Depi	h	ħ	Northing			Easting	****		<i>(</i>	
Top of	Casing _			v	ater Level	Initial		_ Static		60 1	ramy
Screen	: Dia _		Leng	th		Type/Siz	ze	***************************************			
Casing	Dia	***************************************	Lengt	h		_ Type/Siz	ze				
Drill	Co	Ken	. പ	2		Method	i				İ
Driller	MU	< .	L	og By	T.Davis		Date <u>25/1</u>	\/\O _{Permit}	:#		
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESCF	RIPTION				
						Cef	2PH6 C	OVER			
	0.5	D.1-().2			Silk	Sitty Np, Ne's ACM F as	, yello	- 6ra	m, me	
Description FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	Colour red yellow white black brown grey mottled	Structi homog hetero stratifi lamina jens roat he occasio	genous geneous ed ited	Moisture dry damp moist wet saturated	Cohesive So very soft soft firm stiff very stiff hard	1.1	Sand & Gravel very loose loose medium dense dense very dense		poorly sorted (well graded) well sorted (poorly graded)	Secondary and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination



Borehole # <u>TP55</u>

Project_	Riven	vood Nort	h Renew	al		Project N	lo <u>41131</u>			COMMENTS	
Total H	ole Dept	:h	Nor	thing			Easting				
Top of	Casing _			w	ater Level	Initial		Static		44 gr	هسمه
Screen:	Dia		Length			Type/Siz	e				
							е				
Drill	Co	Ken	cole			Method					
Driller	MIC	K	Loa	Bv `	T.Davis		Date <u>25/1</u>	1/10 Permit	#		
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESCR	IPTION				
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Description FILL	clayey	Colour	Structure homogeno	us	Moisture dry	Cohesive So very soft	ils non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary end (35-50%)
CLAY 51LT	silty sandy	yellow white	heterogen stratified		damp moist	soft firm	low plasticity mod plasticity	loose medium dense	cobbles coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
SAND GRAVEL TOPSOIL	gravelly organic	black brown	laminated lens root holes		wet saturated	stiff very stiff hard	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%) Contamination
PEAT		grey mottled	occasional			4101 U					
	<u></u>										odour



Project _.	River	vood No	rth_Re	newal		Project N	lo <u>41131</u>			COMMENTS	
Total H	ole Dept	:h <u> . r</u>	<u>~</u>	Northing			Easting				
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Driller	NU	<u></u>		Loa By	T.Davis		_ Date <u>25/</u>	11/10 Permit	#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	(INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCR	IPTION				
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Description FILL	clayey	Colour	Struct	ure genous	Moisture dry	Cohesive So very soft	ils non-plastic	Sand & Gravel very loose	boulders	BRONY CONTON	Secondary
CLAY SILT	silty	yellow white		geneous	damp moist	soft firm	low plasticity mod plasticity	loose medium dense	cobbles coarse gravel	poorly sorted (well graded) well sorted	and (35-50%) some (20-35%) little (10-20%)
SAND GRAVEL	gravelly organic	black	lamin lens		wet saturated	stiff very stiff	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%)
TOPSOIL PEAT	•	grey mottled	root h			hard				3.2247	Contamination
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Borehole # <u>1057</u>

Total He Top of (Screen: Casing: Drill	ole Dept Casing _ : Dia _ : Dia _ Co	.h	Leng	Northing V gth th Log By	Vater Leve	I Initial Type/Siz Type/Siz	To 41131 Easting Ze Ze Date 26	Static		COMMENTS	grams
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	(INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLAS	DESCF	RIPTION				
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Description FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottle	homo heter stratii lamin lens root h	genous ogeneous lied ated	Moisture dry damp moist wet saturated	Cohesive Solvery soft soft firm stiff very stiff hard	oils non-plastic low plasticity mod plasticity high plasticity	Sand & Gravel very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	Secondary and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination



Project_	Rivery	<u>vood Nort</u>	h Ren	ewal		Project N	lo <u>41131</u>			COMMENTS	
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	(PPM)	JSCS CLASS	DESCR	LIPTION				
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Description FILL	clayey	Colour	Struct	ure genous	Moisture dry	Cohesive So very soft	non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT	silty	yellow white		geneous	damp moist	soft firm	low plasticity mod plasticity	loose medium dense	cobbles coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
SAND GRAVEL	gravelly organic		lamina lens		wet saturated	stiff very stiff	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%)
TOPSOIL PEAT	Signific	grey mottled	root h		Saraieren	hard		-cry dense	20012E 20110	3,0000/	Contamination
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Project_	River	vood Nort	th Rer	newal		Project N	lo <u>41131</u>			COMMENTS	
Total He	ole Dept	h		Northing			Easting				
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Screen:	Dia _	`	Leng	ith		Type/Siz	e				٠,٠٠
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Driller	MICH			Loa Bv	T.Davis		Date 26/	1/10 Permit	#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESCR	IPTION		e de la companya de l		
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Description FILL	clayey	Colour	Struc	ture genous	Moisture dry	Cohesive So very soft	ils non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT	silty sandy	yellow white	heter stratii	ogeneous Ned	damp moist	soft firm	low plasticity mod plasticity	loose medium dense	cobbles coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
SAND GRAVEL TOPSOIL	gravelly organic	black brown grey	lamin lens root l		wet saturated	stiff very stiff hard	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%) Contamination
PEAT		mottled	occas			1100					
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Total Hole Depth Northing Water Level Initial State Screen: Dia Length Type/Site Gasting Water Level Initial State Screen: Dia Length Type/Site Gasting	Project _.	Rivery	vood Nort	h Renewal		Project N	lo <u>41131</u>			COMMENTS	
Screen: Ola Length Type/Size Casing: Ola Length Type/Size Drill Co Kein Cole Method Exconstar Method	Total H	ole Dept	:h	North	ing		Easting			_	
Screen: Ola Length Type/Size Casing: Ola Length Type/Size Drill Co Kein Cole Method Exconstar Method	Top of	Casing _			_ Water Leve	l Initial		Static		63 a	como
Casing: Dia Length Type/Size Method Excendent	Screen:	Dia		Length _		Type/Siz	.e			- 0	
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Description Descr		Co _	Keni	_ماعد _		- , Method	EXCEN	16tor			
DESCRIPTION DESCR									#		1
CRASS COCEA FILL SITY Clay, Gran, Ton photocity adamp, heterogeness not including of Acm fragments, glass, ratlets O.G. Sity Clay, Yellow brown, medium planticity, damp, heterogeness I.Om Exo of Investication and Joseph Valley sandy sold and posty sold and sold posty sold sold and posty sold sold sold posty sold sold sold posty sold sold sold posty sold sold sold posty sold sold sold sold sold posty sold sold sold sold sold sold sold sold	Drine:				1100110			12,1111	"		
Calcy Sity Clay, Gram, Ion phaticity, damp, heterogeness with inclinary of Acm fragments, glass, radiates O.G. Sity Clay, Gram, Ion phaticity, damp, heterogeness with inclinary of Acm fragments, glass, radiates Sity Clay, yellow brown, medium planticity, damp, heterogeness of phaticity, damp, heterogeness of phaticity, damp, heterogeness of phaticity, damp, heterogeness of phaticity, damp, heterogeness of phaticity, damp, heterogeness of phaticity, damp, heterogeness of phaticity, damp, heterogeness of phaticity, damp, heterogeness of phaticity, damp, heterogeness of phaticity, damp, heterogeness of phaticity, damp, heterogeness, damp, and phaticity, damp, heterogeness, damp, heterogeness, damp, and heterogeness, damp, and heterogeness, damp, and heterogeness, damp, and heterogeness, damp, and heterogeness, damp, and heterogeness, damp, and heterogeness, damped, and heterogeness, damp, and heterogeness, damped, and heterog	DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. OA/OC	ŘEFERENCE) PID (PPM)	USCS CLASS	DESCR	LIPTION				
Description NS Sitty CLay, Yellow brown, medium Planticity, damp, haterogeneous 1.0m END of INVESTIGATION 1.0m OLYS 1.2 O.6 Secondary Very Soft Soft Soft Soft Soft Soft Soft Soft					-		TRP65	COVER			
Description NS Sitty CLay, Yellow brown, medium Planticity, damp, haterogeneous 1.0m END of INVESTIGATION 1.0m OLYS 1.2 O.6 Secondary Very Soft Soft Soft Soft Soft Soft Soft Soft						F'//	: Silty	day,	Grow	, low p	lasticity,
Description NS Sitty CLay, Yellow brown, medium Planticity, damp, haterogeneous 1.0m END of INVESTIGATION 1.0m OLYS 1.2 O.6 Secondary Very Soft Soft Soft Soft Soft Soft Soft Soft	 		O.1 - C).7	 -	- dav	mp, he	teroper	es u	worth in	What!
Description NS Sitty Clay, Yellow Grave, medium planticity, damp, haterogeneous letters of the strong normal strong normal strong of the strong normal strong of the strong normal strong of the strong normal s							Acr.	Com 412 an	ale .	10.63	الماردات
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Description Clayey CLAY Silty Silty Silty SAND GRAVEL TOPSOIL					-	. ام	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, , , , , , , , , , , , , , , , , , ,	. \		
Description Colour Structure Moisture Cohesive Soils Sand & Gravel CLAY Silty Sandy Gravelly black brown TOPSDIL PEAT Colour Structure Moisture Moisture Cohesive Soils Soil Soil Soil Soil Soil Soil Soil Soil			N 2				oualy,	camp.	hater	rdener	,
Description Colour Structure Moisture Cohesive Soils Sand & Gravel CLAY Silty Sandy Gravelly black brown TOPSDIL PEAT Colour Structure Moisture Moisture Cohesive Soils Soil Soil Soil Soil Soil Soil Soil Soil											
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Description Colour Structure Moisture Cohesive 5oils Sand & Gravel Torspoll GRANEL TORSpoll PEAT Colour Structure Moisture Moisture Moisture Cohesive 5oils Sand & Gravel Very soit soit moist soit firm moist laminated lens grey mottled root holes prot homogenous heterogeneous strailfied laminated lens grey mottled root holes prot holes gravelly root holes mottled prot homogenous heterogeneous strailfied laminated lens grey mottled root holes mottled root holes mottled root holes prot homogenous heterogeneous strailfied laminated lens grey mottled root holes mottled root hole						<u> </u>	MD DC	INVESTICA	ATVIN I	Óν~	
Description Colour Structure Moisture Cohesive Soils Sand & Gravel FILL CLAY Silty Sandy Gravelly Dragnic GRAVEL TOPSOIL PEAT Cohesive Soils Sand & Gravel Very dense Soft Soils Some (20-35%) Some (2							,,,,	(, - 0 00 . , - 0,		,,,,,,	. • 🔻 .
Description Colour Structure Moisture Cohesive Soils Sand & Gravel FILL CLAY Silty Sandy Gravelly Dragnic GRAVEL TOPSOIL PEAT Cohesive Soils Sand & Gravel Very dense Soft Soils Some (20-35%) Some (2											I "
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Description Colour Structure Moisture Cohesive Soils Sand & Gravel FILL clayery silty sandy sandy gravelly Drawn GRAVEL TOPSOIL PEAT PATE TOPSOIL PEAT PATE TO TOPSOIL PEAT PATE					<u> </u>	_	1.2		6		
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FILL clayey silty silty sandy SILT SAND GRAVEL TOPSDIL PEAT		j	1 _ ;		—	1		· · · · · ·			
CLAY Silty yellow white stratified sandy GRAVEL TOPSDIL PEAT			_}						boulders	poorly sorted	
SAND gravelly black laminated wet stiff high plasticity dense fine gravel (poorly trace (0-10%) property for the property for	CLAY	silty	yellow	heterogeneo	us damp	soft	low plasticity	loose	cobbles	(well graded)	some (20-35%)
TOPSDIL grey root holes hard Contamination	SAND	gravelly	black	laminated	wet	stiff		dense	fine gravel	(poorly	
	TOPSDIL		grey	root holes				•		_ ′	Contamination
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Project_	Riven	vood Nort	h Renew	<u>ıl</u>	F	Project N	lo <u>41131</u>			COMMENTS	
Total He	ole Depl	th	Nort	hing			Easting			11.	
Top of 6	Casing _			Water	Level	Initial		Static		14	grams
Screen:	Dia _		Length			Type/Siz	e				
Casing:	Dia _		Length _			Type/Siz	e				
Drill	Со					Method					
Driller .			Log	By <u>T.Da</u>	vis		_Date <u>~61</u> 1	१ ∕१४ Permit	#		
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DEPTH (METRES)	WELL	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESCR	IPTION				
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Description FILL	cłayey	Colour red	Structure homogeno	Moist us dry	nse	Cohesive So very soft	ils non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT	silty sandy	yellow white	heterogene stratified			soft firm	low plasticity mod plasticity	loose medium dense	cobbles coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
SAND GRAVEL	gravelly organic	black	laminated lens	wet satur		stiff very stiff	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%)
TOPSOIL PEAT	5.90.11	grey	root holes occasional	35.00		hard		. cry serials	202132 30110	5,00007	Contamination
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Project _.	Riven	vood Nortl	h Renewal		Project N	lo <u>41131</u>			COMMENTS	
Total H	ole Dept	h <u>⊃.8 -</u>	Northing			Easting	-		200	
Top of	Casing _		v	ater Level	Initial		Static		323 9	3000
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DEPTH (METRES)	WELL	SAMPLE ID (INCL. QA/QC	REFERENCE)	USCS CLASS		IPTION				
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Description	<u> </u>	Colour	Structure	Moisture	Cohesive So	ils	Sand & Gravel			Secondary
FILL CLAY	clayey	red yellow	homogenous heterogeneous	dry damp	very soft soft	non-plastic low plasticity	very loose loose	boulders cobbles	poorly sorted (well graded)	and (35-50%) some (20-35%)
SILT SAND	sandy gravelly	white black	stratified laminated	moist wet	firm stiff	mod plasticity	medium dense	coarse gravel	well sorted	little (10-20%)
GRAVEL TOPSOIL	organic	brown	lens root holes	saturated	very stiff	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%) Contamination
PEAT		grey mottled	occasional		hard					Contamination
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Project	Rivery	vood Na	rth Rer	newal		Project N	lo <u>41131</u>			COMMENTS	
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DEPTH (METRES)	o WELL CONSTRUCTION		(INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	E-II	IPTION Careass clay bre	- 0.0	ro clam	s firm	
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Description FILL	clayey	Colour red		genous	Moisture dry	Cohesive So very soft	non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT	silty sandy	yellow white		ogeneous	damp moist	soft firm	low plasticity mod plasticity	loose medium dense	cobbles coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
SAND GRAVEL	gravelly organic	black brown	lamin: lens	ated	wet saturated	stiff very stiff	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%)
TOPSOIL PEAT		gray mottled	root h occasi			hard					Contamination
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Project _.	Rivery	vood Nort	th_Renewal_		Project P	No <u>41131</u>			COMMENTS	
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DEPTH (METRES)	WELL. CONSTRUCTION	SAMPLE ID	REFERENCE) PID (PPM)	USCS CLASS	DESCR	IPTION				
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Description		Calaur	Structure	Moisture	Cohesive So		Sand & Gravel			Secondary
FILL CLAY SILT SAND	ciayey silty sandy gravelly	red yellow white black	homogenous heterogeneous stratified laminated	dry damp moist wet	very soft soft firm stiff	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense	boulders cobbles coarse gravel	poorly sorted (well graded) well sorted	and (35-50%) some (20-35%) little (10-20%)
GRAVEL TOPSOIL	organic	brown grey	lens root holes	saturated	very stiff hard	rogo prosucity	very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%) Contamination
PEAT	İ	mottled	occasional		1,,,,,					
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Description		Сојоиг	Structure	Moisture	Cohesive So	de la la la la la la la la la la la la la	Sand & Grave)	<u> </u>		Secondary
FILL	clayey	red	homogenous	dry	very soft	non-plastic	very loose	boulders	poorly sorted	and (35-50%)
CLAY SILT	silty sandy	yellow white	heterogeneous stratified	damp moist	soft firm	low plasticity mod plasticity	loose medium dense	cobbles coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
SAND GRAVEL TOPSOIL	gravelly organic	black brown grey	laminated lens root holes	wet saturated	stiff very stiff hard	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%) Contamination
PEAT		mottled	occasional							
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Project _.	Riven	wood Nor	<u>th_Renewa</u>	<u> </u>	Project i	No <u>41131</u>			COMMENTS	
Total H	ole Depi	th	Nortl	ning		Easting	J		609	er eria e
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	rto (rrm) USCS CLASS	DESCI	RIPTION				
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Description FILL	clayey	Colour red	Structure homogenous	Moisture dry	Cohesive So very soft		Sand & Gravel	haulders	Esselv carra	Secondary
CLAY	silty sandy	yellow white	heterogened stratified		soft firm	non-plastic low plasticity	very loose loose	cobbles	poorly sorted (well graded)	and (35-50%) some (20-35%)
SAND GRAVEL	gravelly organic	black brown	laminated lens	wet saturated	stiff	mod plasticity high plasticity	medium dense dense	coarse gravel	well sorted (poorly	little (10-20%) trace (0-10%)
TOPSOIL PEAT	organic.	grey	root holes occasional	30(0) 2(0)	very stiff hard		very dense	coarse sand	graded)	Contamination
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Borehole # <u>+1775</u>

Project _.	River	wood Nor	th_Rei	newal		Project N	No <u>41131</u>		·····	COMMENTS	
Total H	ole Dep	th		Northing			Easting		·····		
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Screen	: Dia _		Leng	jth		Type/Siz	e		***		
Casing:	Dia _		Lengl	th		_ Type/Siz	'e				
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESCR	EIPTION				
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Description	1	Colour	Struct	ture	Moisture	Cohesive So	ils	Sand & Gravel			Secondary
FILL CLAY	ciayey silty	red yellow	homo	genous	dry	very soft	non-plastic	very loose	boulders	poorly sorted	and (35-50%)
SILT SAND	silty sandy gravelly	white black	stratif lamin		damp moist wet	firm stiff	low plasticity mod plasticity high plasticity	loose medium dense dense	cobbles coarse gravel fine gravel	(well graded) well sorted (poorly	some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic	brown grey	lens root h		saturated	very stiff hard	mgn piesulity	very dense	coarse sand	graded)	Contamination
PEAT		mottled	occasi			-		•			
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					Project No. 41131 COMMENTS
					EastingInitialStaticIGS grows
					Type/Size
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					CRASS COVER
		0.1-0.2			Fill: Silty clay, yellow sounge, low plasticity, damp, with inclusions of Acm fragments
	- 03≾	0.4-0.5			Silty Clay, yellow orange, medium plusticity, damp, neterogeneous
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Description	,		ture	Moisture	Cohesive Soils Sand & Gravel Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	yellow hete white strat black lamin brown lens grey root	ogenous rogeneous ified pated holes sional	dry damp moist wet saturated	very soft soft low plasticity mod plasticity high plasticity hard low loss loose wery dense loose wery dense loose wery dense loose to cobbles cobbles coarse gravel fine gravel coarse sand loose well sorted (poorly graded) trace (0-10%) trace (0-10%) contamination loodour



Project _.	Riven	vood_N	orth Re	newal		Project f	No_41131			COMMENTS	
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Top of	Casing _			V	Vater Level	Initial		_ Static		286	ع رحم
Screen:	: Dia _		Leng	gth		Type/Siz	ze				
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	(INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCR	RIPTION				
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Description FILL	clayey	Colour red	Struc	ture Igenous	Moisture dry	Cohesive So very soft	ils non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY	silty	yellow white		ogeneous	damp moist	soft firm	low plasticity mod plasticity	loose medium dense	cobbles coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
SAND GRAVEL	gravelty organic	black brown	lamin lens		wet saturated	stiff very stiff	high plasticity	dense very dense	fine gravel coarse send	(poorly graded)	trace (0-10%)
TOPSOIL PEAT		grey mottle	root i			hard		,		,	Contamination
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Project.	Riven	vood Nor	th Re	newal		Project N	lo <u>41131</u>			COMMENTS	
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Driller		***************************************		Ing By	T Davis		Date 30/	1/10 Permit	#		
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DEPTH (METRES)	김왕	SAMPLE ID	₫ Ë	PID (PPM)	JSCS						
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Description		Colour	Struc	ture	Moisture	Cohesive So	ils	Sand & Gravel			Secondary
FILL	clayey	red	homo	genous	dry	very soft	non-plastic	very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT	silty sandy	yellow white	stratii		damp moist	soft firm	low plasticity mod plasticity	loose medium dense	cobbles coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
SAND GRAVEL	gravelly organic	black brown	lamin lens		wet saturated	stiff very stiff	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%)
TOPSOIL PEAT		grey mottled	root h occas			hard					Contamination
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Project	River	vood No	orth Re	newai		Project 1	No <u>41131</u>			COMMENTS	
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DEPTH (METRES)	WELL	SAMPLE ID	(INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS		RIPTION				
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Description FILL	clayey	Calour red	Struct	ore genous	Moisture dry	Cohesive So very soft	ilis non-plastic	Sand & Gravel	houldes	poorly sector	Secondary
CLAY SILT SAND GRAVEL TOPSOIL	silty sandy gravelly organic	yellow white black brown grey	heten stratii lamin lens root h	ogeneous Ted ated oles	damp moist wet saturated	soft firm stiff very stiff hard	iow plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
PEAT		mottled	occasi	ional							



Project_	Riven	wood N	orth_Re	newal		Project 1	lo <u>41131</u>			COMMENTS	
							Easting				
Top of (Casing _			v	Vater Leve	Initial		_Static		a.	
Screen:	Dia _		Len	gth		Type/Siz	re			9 9-	علاسن
Casing:	Dia _		Leng	th		_ Type/Siz	.e				
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ES)	WELL CONSTRUCTION	E ID	(INCL. QA/QC REFERENCE)	РМ)	CLASS	DESCR	IPTION				:
DEPTH (METRES)	WELL CONS	SAMPLE ID	(INCL. REFER	PID (PPM)	uscs						
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Description	l	Colour	Struc	tura	Maisture	Coharino	ile	Fand & Crount			Sagandus:
FILL	cłayey	red	homo	genous	Maisture dry	Cohesive So very soft	non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT	sifty sandy	yellow white	strati		damp moist	soft firm	low plasticity mod plasticity	loose medium dense	cobbles coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
SAND GRAVEL	gravelly organic	black brown	lamir lens		wet saturated	stiff very stiff	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%)
TOPSOIL PEAT		grey mottle	root l occas			hard		:			Contamination
											Oqoni



Project_	Riven	vood Nort	:h Renewal		Project N	lo <u>41131</u>			COMMENTS	
Total He	ole Depl	:h	North	ing		Easting	-		, _	
Top of (Casing _			_ Water Leve	l Initial		Static		435	grous
Screen:	Dia _		Length		Type/Siz	е			_	U
						e				
Dallia	Co		1 D	T Davie	MECHOL	Date 20/1	10 -			
Driller .			Log B	y <u>I.Davis</u>		_ Date	Permit	: #		
DEPTH (METRES)	WELL	SAMPLE ID	REFERENCE)	USCS CLASS	DESCR	IPTION				
	.). :S	₩S	0.2		FIII dar of Ac	my, he small m fra	clay, teoger amou gnests	horan eas c nts of , shale inge c , hotan	ash/she preces	ジ /
Daccription		Lolow	Structure	And the second s	- Constitut So	ile.	1.10	0.45		
Description FILL	clayey	Colour red	Structure homogenous	Moisture dry	Cohesive So very soft	ils non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT SAND GRAVEL TOPSOIL PEAT	slity sandy gravelly organic	yellow white black brown grey mottled	heterogeneo stratified laminated lens root holes occasional		soft firm stiff very stiff hard	low plasticity mod plasticity high plasticity	loose loose medium dense dense very dense	cobbles coarse gravel fine gravel coarse sand	(well graded) well sorted (poorly graded)	some (20-35%) little (10-20%) trace (0-10%) Contamination
	l	1	1	1	1 1			I	I	



Project _.	River	vood_No	rth Re	newal		Project !	No <u>41131</u>		***************************************	COMMENTS	
Total H	ole Depi	:h		Northing	l		Easting	J		(07)	
Top of	Casing _			v	Vater Leve	l Initial		_ Static	·····	107 5), U = 0
Screen	: Dia _		Leng	gth		_ Type/Si:	ze		*****		
Casing:	Dia		_ Leng	th		Type/Siz	ze	····			
Drill	Co					Method	d		******		
Driller		···········		Log By .	T.Davis		_ Date _ 30 [1110 Permit	#		
	Ιz	***************************************		1		T.					
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	(INCL. QA/QC REFERENCE)	PID (PPM)	JSCS CLASS	DESCF	RIPTION				
						······	2045 CO				
		0.1-	0.2			FIII dar	: Silty,	clay, a eogen	fragne	lo pla	which,
***************************************	0-4					₫	Cootlets	, ACM	fragne	urts	
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		7	5		<u> </u>	b/a	astrony	, dam	ullow ora	vogever	~ <u>></u>
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	l					_					
					 	-					
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Description	l.	Colour	Struct	иге	Moisture	Cohesive So	ils	Sand & Gravel			Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	heterd stratifi lamina lens root h	ated oles	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel warse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination
											odaur



Borehole # 1787

Project_	River	wood No	rth Re	newal		Project N	Vo <u>41131</u>			COMMENTS	
Total Ho	ole Dept	th		Northing							
Top of (Casing _			v	Vater Level	Initial		Static		2695	cv-
Screen:	Dia _		_ Leng	th		Type/Siz	ze				
Casing:	Dia _		_ Leng!	th		Type/Siz	e				
Drill	Co					Method	ſ				
Driller .				Log By	T.Davis		Date 30/1	10 Permit	#		
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	(INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCR	IPTION				
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Description		Colour	Struc		Moisture	Cohestve So		Sand & Gravel			Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy graveily organic	red yellow white black brown grey mottled		ated noles	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination



							lo_41131			COMMENTS	
		epth Northing Easting g Water Level Initial Static Length Type/Size									
									1	NO AL	1
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Drill							e				
	MI	L		na Bv	T Davis	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Date 25/11	10 Permit	#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESCR	IPTION				
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	*	Ð√ -	0.2			Fill.		clay, of	bran,	la p	lastikaty,
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		NS				SIH	5 che	y, yeld, damp	lla bo , hote	oun, b	redium,
						Alacidin.					
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$\bar{\ }$						_]					
Description	i	Colour	Structi	иге	Moisture	Cohesive So	ils	Sand & Gravel			Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	ciayey silty sandy gravelly organic	red yellow white	homog	genous geneous ed ited	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination
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Borehole # TDQ

									COMMENTS		
							Static				
Screen	: Dia		Length		Type/Siz	ze					
Casing:	Dia _	L	ength		Type/Siz	'e					
Drill	Co				Method	l,	,				
Driller			Log By .	T.Davis		_ Date <u>23/</u>	MD_Permit	#			
				T							
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC	REFERENCE) PID (PPM)	USCS CLASS	DESCR	IPTION					
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		_			FIII	: Sitty	Clay,	bou	n, bow	plasticit	, ,
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Description	-,		Structure		Cohesive So		Sand & Gravel			Secondary	
FILL CLAY SILT SAND	ciayey silty sandy gravelly	yellow white black	homogenous heterogeneous stratified laminated		very soft soft firm stiff	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense	boulders cobbles coarse gravel fine gravel	poorly sorted (well graded) well sorted (poorly	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)	
GRAVEL TOPSOIL	organic	grey	lens root holes		very stiff hard	<u> </u>	very dense	coarse sand	graded)	Contamination	
PEAT		mottled	occasional							odaur	



							No <u>41131</u> Easting		1	COMMENTS	
							ze				
Drill	Со	Ken	<u>. č</u>	0e		Method	ze d				
Driller	ROF	21-y	***************************************	Log By _	T.Davis		Date 23/	1/10_Permit	#		
			W			-1					
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESCF	RIPTION				
						<u></u>	rrass	COVE	P	- Name - Artistante - Artistante - Artistante - Artistante - Artistante - Artistante - Artistante - Artistante	
		0.1	-0.2			FIII	: sitty	clay,	brown	~,10~	plasticity
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Description	1	Colour	Struct	ture	Moisture	Cohesive So	ils	Sand & Gravel			Secondary
FILL CLAY	clayey silty	red yellow	homo	genous ogeneous	dry damp	very soft soft	non-plastic low plasticity	very loose loose	boulders cobbles	poorly sorted (well graded)	and (35-50%) some (20-35%)
SILT SAND	sandy gravelly	white	stratif lamin	?ed	moist wet	firm stiff	mod plasticity high plasticity	medium dense dense	coarse gravel fine gravel	well sorted (poorly	little (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic	brown grey	lens root h		saturated	very stiff hard		very dense	coarse sand	graded)	Contamination
PEAT		mottled	occasi	lenoi			-				odour



MProject Rozatlachon

Reports | Rozatlachon

Borehole # TP2

	wood North Re							COMMENTS	
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	Ler							181 g	لحابس
	Len								
Drill Co	Ken co	ole		Method	I				
Driller Note	1	Log By <u>T.</u> E	Davis		_ Date	1)10 Permit	#		
Depth (Metres)		(Wada) QIId	USCS CLASS	FIII dar Of Ple 100	isity p, he some co, F m², r	Clay teroger ashIsla for fro sollets	oran	with ineo t cos form	
<u></u>									
Description				ohesive So		Sand & Gravel	L		Secondary
FILL Clayey CLAY SILT Sandy SAND gravell GRAVEL TOPSDIL PEAT	yellow hete white stra y black lam brown lens grey root	inated we	mp s dist fi it s turated v	ery soft oft irm tiff ery stiff ard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fina gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination



							No <u>41131</u>			COMMENTS	
							Easting			4 90	n
							ze			<i>(, J</i>	_
							ze				
Drill	Co	Keen	601	a-		Method	<u></u> _				
Driller	808	7		Log By ₋	T.Davis		_ Date <u>23/N</u>	10 Permit	#		
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	РІБ (РРМ)	USCS CLASS	DESCF	RIPTION				
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Description FILL	clayey	Colour red	Struc	ture genous	Moisture dry	Cohesive So very soft	oils non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary
CLAY SILT SAND	silty sandy gravelly	yellow white black		ogeneous Red	damp moist wet	soft firm stiff	low plasticity mod plasticity high plasticity	loose medium dense dense	cobbles coarse gravei fine gravei	(well graded) well sorted (poorly	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL PEAT	organic	brown grey mottled	lens root l	ioles	saturated	very stiff hard	g plusticity	very dense	coarse sand	graded)	Contamination
PEMI		mottlett	occas	10(10)							odour



Project	River	vood Nort	h Renewal		Project No <u>41131</u>		COMMENTS
Total H	ole Dept	:h	Northin	9	Easting	A	
Top of	Casing _		······	Water Level	Initial	Static	4 grans
Screen	: Dia _		Length		Type/Size		" 3"
Drill	Co _	Keln	40 = T		Type/Size	00	
Driller	RUG		Loo By	T Davie	Date 23/11	10 Parmit #	
Dillie	, 0,	<u> -i </u>	cog by	1.00413	Date <u>223, 11</u>		
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. OA/OC	REFERENCE) PID (PPM)	USCS CLASS	DESCRIPTION		
					CIRASS C	0UER	
	0.5	0.1-	0.2				n, la plasticity with includes to, few AKM
		NS			Sitty cha Plasticity,	y, yellow 'damp, note	brown, medium Dyeness
Description FILL CLAY SILT	clayey silty sandy	Colour red yellow white	Structure homogenous heterogeneous stratified	Moisture dry damp moist	Cohesive Solls very soft non-plastic soft low plasticity firm mod plasticity	Sand & Gravel very loose loose cobbles cobbles coarse gravel	poorly sorted and (35-50%) (well graded) some (20-35%) well sorted little (10-20%)
SAND GRAVEL TOPSOIL PEAT	gravelly organic		laminated lens root holes occasional	wet saturated	stiff high plasticity	dense fine gravel very dense coarse sand	(poorly trace (0-10%) graded) Contamination odour



Borehole # TOIL

Project_	Rivery	ood Nort	h Renewal	P	roject N	lo <u>41131</u>			COMMENTS	
Total H	ole Dept									
Top of	Casing _	ng Water Level Initial Static 39 a Length Type/Size								
Screen:	Dia _		Length		Type/Siz	e			- 0	
Casing:	Dia _		Length		Type/Siz	e				
Drill	Со	Ken	_ coller		Method					
Driller	206	24	Log By	T.Davis		Date 23/1	10 Permit	#		
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/OC	REFERENCE) PID (PPM)	USCS CLASS	DESCR	IPTION				
	•				Gre	RPSS C	svea	in a common of the last ball delegation of the last ball	decided the second decided to the second dec	
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Description		Colour	Structure	Moisture	Cohesive So		Sand & Gravel		······	Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root heles occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination
L	I	1		1				l	I	1



Project_	Riverv	vood_Norl	th Rer	newal		Project N	lo <u>41131</u>	······		COMMENTS	
Total H	ole Dept	:h	Northing Easting 991 6								
Top of	Casing _			w	ater Level	Initial		Static	***************************************	941 0	rams
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							:e				
Drill	C0	Ken	. cc	le		Method	. — <u>————</u>				
Driller	ana		 1	on By	T Davic	1100.700	Date 23/11	110 Permit	#		
		- f	· '	LOG DY _	1.00113		_ Date <u></u>	remine	<i>π</i>		
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESCR	IPTION				
							2 _{ms}	COVER			
	ľO	0.1-	0.2			+1/10 +1/10		lidan elision en fre	p, he of consumer	teroge plass 3. #	veneas fragneuts medium ras
Description	ciayey	Calour		genous	Moisture	Cohesive So	ποn-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT SAND GRAVEL TOPSOIL PEAT	silty sandy gravelly organic	yellow white black brown grey mottled		ogeneous Ted ated oles	damp moist wet saturated	soft firm stiff very stiff hard	low plasticity mod plasticity high plasticity	loose medium dense dense very dense	cobbles coarse gravel line gravel coarse sand	(well graded) well sorted (poorly graded)	some (20-35%) little (10-20%) trace (0-10%) Contamination



Project	Riven	wood Nor	th Re	newal		Project	No_41131			COMMENTS	
Total H	ole Depi	th		Northing	-		Easting				
Top of	Casing _			v	/ater Level	Initial		Static		58 J	an
Screen	: Dia _		Leng	th		Type/Si	ze			G	
							ze				
Drill	Co	Ker	ب د	ole		Metho	d Exeau	dear			
Driller							_ Date <u>24</u> /		#		
		1					-				
DEPTH (METRES)	WELL	SAMPLE ID	(INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCI	RIPTION				
						G	RASS C	OWR	HET FERSTEN IN SET SINGHAM ON AN OLGANISM AND AN OLGANISM AND AND AN OLGANISM AND AND AND AND AND AND AND AND AND AND	#77/ph/sight-Million Sight-Sig	- Parket Walter & Market & Mar
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						Pic		, dan			
							1.3	0.6	0.7		
Description FILL	clayey	Cotour	Struct		Moisture dry	Cohesive S		Sand & Gravel	boulders	nond	Secondary
CLAY SILT SAND	silty sandy gravelly	yellow white black	heteri stratif lamin		damp moist wet	very soft soft firm stiff	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense	boulders cobbles coarse gravel fine gravel	poorly sorted (well graded) well sorted (poorly	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic	grey grey	lens root h		saturated	very stiff hard		very dense	coarse sand	graded)	Contamination
PEAT		mottled	occasi	onai							odour
	1										f



Project _.	<u>Riven</u>	wood No	rth_Rei	newal		Project I	No <u>41131</u>			COMMENTS	
Total H	ole Dept	th		Northing			Easting	l			
							74 9	J. com			
Screen:	: Dia _		_ Leng	th	***************************************	Type/Si	ze	···		Ī	
Casing:	: Dia _		_ Leng!	th		_ Type/Si	ze				
Drill	Co	- Kerr	· ci	olc_		Method	d	····			
Driller	<u> P.00</u>			Log By	T.Davis		Date <u>24/</u>	IV/VO Permit	:#		
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	WELL CONSTRUCTION		ပ္ပင္		s						
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DEPTH (METRES)	필증	SAMPLE ID	(INCL, QA/QC REFERENCE)	PID (PPM)	JSCS						
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Description FILL	clayey	Colour red	Struct homo	ure genous	Moisture dry	Cohesive So very soft	ils non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT	silty sandy	yellow white		ogeneous	damp moist	soft firm	low plasticity mod plasticity	loose medium dense	cobbles coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
SAND GRAVEL	gravelly organic	bíack brown	lamina lens		wet saturated	stiff very stiff	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%)
TOPSOIL PEAT		grey mottled	root h occasi			hard				-	Contamination
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Borehole # 1033

Project _.	Riverv	vood Nort	h Renewa	l	P	roject N	lo <u>41131</u>			COMMENTS	
Total H	ole Dept	h	Nort	ning			Easting				
Top of	Casing _			Water	Level I	nitial	***************************************	Static			
Screen:	Dia _		Length			Type/Siz	:e				
Casing:	Dia _		Length _			Type/Siz	:e				
Drill	Co	Kell	<u>cae</u>			Method	e	14tor			
Driller	ROD	25-7	Log	By <u>T.Da</u>	ıvis		_ Date <u>24/</u>	<u>II//O</u> Permit	#		7
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. 0A/OC	REFERENCE)	rib (rrhi)	USCS CLASS	DESCR	IPTION				
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Description		Colour	Structure	Mois	ture	l Cohesive So	ils	Sand & Gravel			Secondary
FILL CLAY	clayey silty	red yellow	homogenoi heterogene			very soft soft	non-plastic low plasticity	very loose loose	boulders cobbles	poorly sorted (well graded)	and (35-50%) some (20-35%)
SILT SAND	sandy graveliy	white black	stratified laminated	mois wet		firm stiff	mod plasticity high plasticity	medium dense dense	coarse gravel fine gravel	well sorted (poorly	#ttle (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic	brown grey	lens root holes	satu		very stiff hard		very dense	coarse sand	graded)	Contamination
PEAT		mottled	occasional								Odaur



Total Ho Top of O Screen: Casing: Drill	ole Dept Casing _ : Dia _ Dia _ Co	h	Lengt	Northing W th h	Project No. 41131 Easting /ater Level InitialStatic Type/SizeType/Size Method T.Davis Date 2 11/10 Permit #						COMMENTS Line gr 2C+	rms
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS		DESCR	IPTION				
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Description FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	Colour red yellow white black brown grey mottled		genous ogeneous ied oted oles	Moisture dry damp moist wet saturated	so fii st	ohesive So ery soft oft rm tiff ery stiff ard	1.1	Sand & Gravel very loose loose medium dense dense very dense	boulders cobbles coarse gravei fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	Secondary and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination odour



Total Ho Top of G Screen: Casing: Drill	Dia Co	hI	Northing Northing W Length Length	Project No_41131 Ing Easting Water Level Initial Static Type/Size Type/Size Method Excensive / T.Davis Date 25/11/10 Permit #					COMMENTS 1355 1175 1058 917 1171 980	and the
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC	REFERENCE) PID (PPM)	USCS CLASS	DESCR	IPTION			912 7.568	- Kg
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Description FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	Colour red yellow white black brown grey mottled	Structure homogenous heterogeneous stratified laminated lens root holes occasional	Moisture dry damp moist wet saturated	Cohesive So very soft soft firm stiff very stiff hard	1,3	Sand & Gravel very loose loose medium dense dense very dense		poorly sorted (well graded) well sorted (poorly graded)	Secondary and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination



Project Riverwood North Renewal Project No_41131 CC	
Total Hole Depth Northing Easting	Jeit
Screen: Dia Length Type/Size ,	125 grans
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Driller MULE Log By T.Davis Date 25/11/10 Permit #	
DEPTH (METRES) WELL CONSTRUCTION SAMPLE ID (INCL. QA/QC REFERENCE) PID (PPM) PID (PPM) OLICIAL	
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END OF INVESTIGATION	v 1,2m
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Description Colour Structure Moisture Cohesive Soils Sand & Gravel	Secondary
CLAY silty yellow heterogeneous damp soft low plasticity loose cobbles (w	oorly sorted and (35-50%) well graded) some (20-35%)
SAND gravelly black laminated wet stiff high plasticity dense fine gravel (po	ell sorted little (10-20%) coorly trace (0-10%)
TOPSOIL grey root holes hard	raded) Contamination
PEAT mottled accasional	odour



			h Renewal Northin						COMMENTS	
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Drill	Co	Ken	<u>cde</u>		Method	excar	of C			
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Description FILL	clayey	Colour red	Structure homogenous	Moisture dry	Cohesive So very soft	ils non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT	silty sandy	yellow white	heterogeneous stratified	damp moist	soft firm	low plasticity mod plasticity	loose medium dense	cobbles coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
SAND GRAVEL TOPSOIL	gravelly organic	black brown grey	laminated lens root holes	wet saturated	stiff very stiff bard	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%) Contamination
PEAT		mottled	occasional							odour
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Project	Rivery	vood Nor	th Re	newal		Project N	lo <u>41131</u>			COMMENTS	
Total H	ole Dept	h	***************************************	Northing				aa.			
Top of	Casing _			v	ater Level	Initial		Static	····	99 g=	ms
Screen:	Dia _		_ Leng	gth		Type/Siz	.e			I	
Casing:	Dia _		_ Lengi	th		Type/Siz	e				
Drill	Co	Ken	<u>, cd</u>			Method	EXCAU	A+10@_			
Driller	MIL	<u>K</u>		Log By	T.Davis		Date 25/11	10 Permit	#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	(INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCR	IPTION				
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Description	,	Colour	Struct		Molsture	Cohesive 50		Sand & Gravel	L C		Secondary
FILL CLAY	clayey silty	red yellow	heten	genous ogeneous	dry damp	very soft soft	non-plastic low plasticity	very toose loose	boulders cobbles	poorly sorted (well graded)	and (35-50%) some (20-35%)
SILT SAND	gravelly	white black	stratif lamin		moist wet	firm stiff	mod plasticity high plasticity	medium dense dense	coarse gravel fine gravel	well sorted (poorly	little (10-20%) trace (0-10%)
GRAVEL TOPSOIL PEAT	organic	brown grey mottled	lens root h occasi		saturated	very stiff hard		very dense	coarse sand	graded)	Contamination
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Total Ho Top of O Screen: Casing: Drill	ole Dept Casing _ Dia _ Dia _ Co	h I.Im	Northin Length Length Length	g Water Level	Project No. 41131 COMMENTS Easting Initial Static Ingress Type/Size Method Excession Davis Date 25/11/10 Permit #						
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL, QA/QC		USCS CLASS		IPTION	, , , , , , , , , , , , , , , , , , , ,				
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Description FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	Colour red yellow white black brown grey mottled	Structure homogenous heterogeneous stratified laminated lens root holes occasional	Moisture dry damp moist wet saturated	Cohesive Soi very soft soft firm stiff very stiff hard	is non-plastic low plasticity mod plasticity high plasticity	Sand & Gravel very Joose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	Secondary and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination	



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Casing:	Dia	1.6 ->-	Length		_ Type/Siz	ze	-1 ~ =			
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Driller _	<u> </u>	<u>حور</u>	Log By	_I.Davis		_ Date <u>~</u>	trio_Permit	: #		
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. OA/OC	REFERENCE) PID (PPM)	USCS CLASS	DESCR	RIPTION				
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Description		Colour	Structure	Moisture	Cahesive So	ills	Sand & Gravel			Secondary
FILL CLAY SILT SAND GRAVEL	ciayey siity sandy gravelly organic	red yellow white black brown	homogenous heterogeneous stratified laminated lens	dry damp moist wet saturated	very soft soft firm stiff very stiff	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
TOPSOIL PEAT		grey mottled	root holes occasional		hard		,		, , , , , ,	Contamination
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Project	ect Riverwood North Renewal Project No 41131 COMMENTS										
Total H	ole Dep	th			_						
Top of	Casing .	··		W	/ater Level	Initial		Static		976	grans
Screen	: Dia _		Leng	ith		Type/Siz	ze			. , -	02
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Description FILL	clayey	Colour red	Struct	ture genous	Moisture dry	Cohesive Soft	non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT	silty	yellow white		ogeneous	damp moist	soft firm	low plasticity mod plasticity	loose medium dense	cobbles coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
SAND GRAVEL	gravelly organic	black	lamin lens		wet saturated	stiff very stiff	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%)
TOPSOIL PEAT		grey mottled	root h occasi			hard		,		- '	Contamination
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Drill	Co		_ 		***************************************		e EXZAN	م ۵ تیکمید			
Driller			L	og By	T.Davis		Date 266	1110 Permit	#		
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·	WELL CONSTRUCTION		ນຸດ		νΩ						
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Description	clayey	Colour	Struct	ure genous	Moisture dry	Cohesive So very soft	ils non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT	slity sandy	yellow white		geneous	damp moist	soft firm	low plasticity mod plasticity	laose medium dense	cobbles coarse gravel	(well graded) well sorted	and (35-50%) some (20-35%) little (10-20%)
SAND GRAVEL	gravelly organic	black brown	lamina lens	ated	wet saturated	stiff very stiff	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%)
TOPSOIL PEAT		grey moltied	root h occasi			hard					Contamination
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					Project No. 41131 COMMENTS
					Initial Static [4]
					Type/Size
Drill					Type/Size
	CU		Log By	T Davie	Method
Diffier .			LOG BY _	1.Davis	Date - WYTHY Permit #
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
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Description	-,		ructure	Moisture	Cohesive Soils Sand & Gravel Secondary
FILL CLAY SILT	clayey silty sandy	yeilow he	mogenous terogeneous atilied	dry damp moist	very soft non-plastic very loose boulders poorly sorted and (35-50%) soft low plasticity loose cobbles (well graded) some (20-35%) firm mod plasticity medium dense coarse gravel well sorted little (10-20%)
SAND GRAVEL	gravelly organic		ninated	wet saturated	stiff high plasticity dense coarse gravel (poorly trace (0-10%) very stiff very dense coarse sand graded)
TOPSOIL PEAT		grey ro	ot holes casional		hard Contamination
					odour



Project	Riven	wood Nor	th Rei	newal	Project No_41131					COMMENTS	
Total H	ole Depi	:h		Northing	g Easting						
										60 -	irams
Screen	: Dia _		Leng	th		Type/Siz	re				J
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Drill											
Driller				Log By _	1.Davis		Date <u>26 - w</u>	· (5 Permit	: #		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	ISCS						
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Description FILL	clayey	Colour	Struct	ure genous .	Moisture dry	Cohesive So very soft	ils non-plastic	Sand & Gravel very foose	boulders	noorly corted	Secondary and (35-50%)
CLAY SILT	silty	yellow	hetero	geneous	damp	soft	low plasticity	loose	cobbles	poorly sorted (well graded)	some (20-35%)
SAND	sandy gravelly	white black	stratif lamina		moist wet	firm stiff	mod plasticity high plasticity	medium dense dense	coarse gravel fine gravel	well sorted (poorly	little (10-20%) trace (0-10%)
GRAVEL TOPSDIL	organic	grey	lens root h		saturated	very stiff hard		very dense	coarse sand	graded)	Contamination
PEAT		mottled	occasi	lano							
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Project _.	River	wood_Nort	th Rer	newal		Project N	Vo_41131		 .	COMMENTS	
Total H	ole Dep	th		Northing			Easting				
Top of	Casing .			V	Vater Level	Initial		Static		67	greves
Screen:	: Dia _		Leng	th		Type/Siz	re				O
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	рір (ррм)	USCS CLASS	DESCR	RIPTION				
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Description	· · · · · · · · · · · · · · · · · · ·	Colour	Struct		Moisture	Cohesive So		Sand & Gravel	,		Secondary
FILL CLAY	clayey silty	red yellow	hetero	genous ogeneous	dry damp	very soft soft	non-plastic low plasticity	very loose loose	boulders cobbles	poorly sorted (well graded)	and (35-50%) some (20-35%)
SILT SAND	sandy gravelly	white black	stratif Iamina		moist wet	firm stiff	mod plasticity high plasticity	medium dense dense	coarse gravel fine gravel	well sarted (poorly	little (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic	grey brown	lens root h	ales	saturated	very stiff hard	- · · · ·	very dense	coarse sand	graded)	Contamination
PEAT		mottled	occasi			-					
									<u> </u>		odour



Project_	Riven	vood_Nortl	h_Renewal	F	roject N	lo <u>41131</u>			COMMENTS	
Total H	ole Depi	:h	Northing	J		Easting	<u> </u>			
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Screen:	Dia _		Length		Type/Siz	e			• • •	7. 4
Drill										
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Driller .			Log By	I.Davis		_ Date	rermit	#		
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC	REFERENCE) PID (PPM)	USCS CLASS		IPTION	cover.			
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Description FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	Colour red yellow white black brown grey mottled	Structure homogenous heterogeneous stratified laminated lens root hotes occasional	dry damp moist wet saturated	Cohesive 50 very soft soft firm stiff very stiff hard	ils non-plastic low plasticity mod plasticity high plasticity	Sand & Gravel very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	Secondary and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination



Borehole #

Project	Rivery	vood Nor	th Re	newal		Project 1	No <u>41131</u>			COMMENTS	
							Easting				
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Screen	: Dia		Leng	gth		Type/Siz	ze				3
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Drill	Co					Method	i				
Driller				Log By	T.Davis		Date 30/11	Permit	#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESCR	RIPTION				
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Description FILL	clayey	Colour red	Struct homo	ture genous	Moisture dry	Cohesive So very soft	ils non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT SAND GRAVEL TOPSOIL PEAT	silty sandy gravelly organic	yellow white black brown grey mottled		ogeneous Ted ated noles	damp moist wet saturated	soft firm stiff very stiff hard	low plasticity mod plasticity high plasticity	loose medium dense dense very dense	cobbles coarse gravel fine gravel coarse sand	(well graded) well sorted (poorly graded)	some (20-35%) little (10-20%) trace (0-10%) Contamination
		1									odour



Project	River	wood Nor	th Re	newal		Project	No <u>41131</u>			COMMENTS	
Total H	ole Dep	th		Northing	}		Easting				
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Screen:	: Dia _		Leng	gth		_ Type/Si	ze			_	C, J
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Drill							d				
Driller				Log By	T.Davis		_ Date _30/1	1/10 Permit			
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESC	RIPTION				
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Description	ela	Colour	Struct		Moisture	Cahesive So		Sand & Gravel			Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled		ated oles	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination



Total Ho Top of O Screen: Casing: Drill	ole Dept Casing _ Dia _ Dia _ Co	th	Leng	Northing V th h	Vater Level	Initial Type/Siz Type/Siz	ze	Static		COMMENTS		
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESCR	RIPTION					
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Description FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	calour red yellow white black brown grey mottled		genous geneous ed eted	Moisture dry damp moist wet saturated	Cohesive So very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	Sand & Gravel very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	Secondary and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination	



							No <u>41131</u>			COMMENTS	
							Easting				
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	Dia _		Length	·	***************************************	Type/Siz	e i Excay	~~n.@-			
Drill	Со				T. D ! .	Method	20/1	1/10 - "			
Driller .			LC	og By "	I.Davis		_ Date <u>30/1</u>	Permit	#		
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS		RPSS C) VER			
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Description		Colour	Shericking		Maichica	Cohoolio S	il.	Cood & Carret			Formula
FILL	clayey	red	Structur homoge	enous	Moisture dry	Cohesive So very soft	non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT SAND	silty sandy gravelly	yellow white black	heterog stratifie laminati	đ	damp moist wet	soft firm stiff	tow plasticity mod plasticity high plasticity	laose medium dense dense	cobbles coarse gravel fine gravel	(well graded) well sorted (poorly	some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic	brown grey	lens root hol		saturated	very stiff hard		very dense	coarse sand	graded)	Contamination
PEAT		mottled	occasion	nal							adour



Borehole # 1053

Project_	Riverw	ood North	Renewal	P	roject No	41131			COMMENTS	
Total Ho	ole Dept.	h	Northing			Easting				1
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Driller	MIK	<u> </u>	Log By	T.Davis	_	Date <u>25/1</u>	i∫}O Permit a	#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC	KEFEKENCE) PID (PPM)	USCS CLASS	DESCRI	PTION				
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Descriptio		Colour red	Structure homogenous	Moisture dry	Cohesive So very soft	ils non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	yellow white black	nomogenous heterogeneous stratified laminated lens root holes occasional	damp moist wet saturated	soft firm stiff very stiff hard	low plasticity mod plasticity high plasticity	loose medium dense dense very dense	cobbles coarse gravel fine gravel coarse sand	(well graded) well sorted (poorly graded)	some (20-35%) little (10-20%) trace (0-10%)
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									Static			
Casing: Drill												
Drillos	C 0 ,		1.0	na By	T Davie	1716	ָנווטט,	Date 26/1	il(\0_Permit	#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID INCL. QA/QC	REFERENCE)	JD (PPM)	ISCS CLASS	DI	ESCR:	IPTION				
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Description	<u> </u>	Colour	Structi	nte	Moisture	Cohe	sive So	ils	Sand & Gravel			Secondary
FILL CLAY SILT SAND	ciayey silty sandy gravelly	red yellow white black			dry damp moist wet	very soft firm stiff	soft	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense	boulders cobbles coarse gravel line gravel	poorly sorted (well graded) well sorted (poorly	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL PEAT	organic	brown grey mottled	lens root ho occasio	oles	saturated	very	stiff	_ , · · · · · · r	very dense	coarse sand	graded)	Contamination
												adont



Project_	Riverw	ood North	Renewal	F	roject N	o <u>41131</u>			COMMENTS	
						Easting				
Top of	Casing _		W	ater Level	Initial		Static			
						<u> </u>				
Casing:	Dia	L	ength		Type/Size					
Drill	Co ,				Method					
Driller .			Log By _	T.Davis		Date <u>2-6/11/</u>	10 Permit	#		
r					1					
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC	KEPEKENCE) PID (PPM)	USCS CLASS	DESCR.	IPTION				
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Descriptio	<u> </u>	Colour	Structure	Moisture	Cohesive 50	ils	Sand & Gravel			Secondary
FILL CLAY SILT	clayey silty sandy	red yellow white	homogenous heterogeneous stratified	dry damp moist	very soft soft firm	non-plastic low plasticity mod plasticity	very loose loose medium dense	boulders cobbles coarse gravel	poorly sorted (well graded) well sorted	and (35-50%) some (20-35%) little (10-20%)
SAND GRAVEL TDPSOIL	gravelly organic	błack brown grey	laminated lens root holes	wet saturated	stiff very stiff hard	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%) Contamination
PEAT		mottled	occasional							odour
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									COMMENTS	
Total H	ole Dept	h <u>1.35m</u>	Nort	ning		Easting			17-	
Top of	Casing _			Water Leve	l Initial		Static		125 g	cews
Screen:	Dia		Length _		_ Type/Size	<u> </u>			i	
Casing:	Dia _		Length _		Type/Size			<u> </u>		
Drill	Co	Kenc	das		Method_					
Driller	ROFE	-1	Log 6	By <u>T.Davis</u>		Date 23/1	110 Permit	#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. OA/OC	REFERENCE)	PID (PPM) USCS CLASS	DESCRI	PTION				
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Dag-t-t/		C-1	The section is	11.70	lener in		I salan sala			
Description FILL	clayey	Colour red	Structure homogenou		Cohesive Soil very soft	non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT SAND	silty sandy gravelly	yellow white black	heterogene stratified laminated	ous damp moist wet	soft firm stiff	low plasticity mod plasticity high plasticity	loose medium dense dense	cobbles coarse gravel fine gravel	(well graded) well sorted (poorly	some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic	brown grey	lens root holes	saturated	very stiff hard	3 [very dense	coarse sand	graded)	Contamination
PEAT		mottled	occasional							odour
		<u> </u>			<u> </u>				<u> </u>	



Total Hole Depth Northing	
Screen: Dia Length Type/Size	1
Screen: Dia Length Type/Size	E
Drill Co Ken cae Method	
Driller Rosey Log By T.Davis Date 23/11/10 Permit #	
DEPTH (METRES) WELL CONSTRUCTION SAMPLE ID (INCL. QA/QC REFERENCE) USCS CLASS USCS CLASS	
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Description Colour Structure Moisture Cohesive Soils Sand & Gravel Secondary	
Description Calour Structure Moisture Cohesive Soils Sand & Gravel Secondary FILL clayey red homogenous dry very soft soft low plasticity loose white stratified shall black laminated wet stiff hard lovery stiff hard lovery stiff hard lovery stiff hard lovery stiff hard lovery stiff sandy gravely gravely organic gravel gravel gravel gravel gravel coarse sand graded) Secondary Secondary Very soft non-plastic very loose cobbles (well graded) well graded) well sorted little (10-2 coarse gravel fine gravel (poorly trace (0-1 coarse sand graded)) Torsool Contaminated wet stiff hard lovery stiff hard lovery stiff land land land lovery stiff land land land land land land land land	1%) %) 6)



Project _.	<u>Riven</u>	wood Nor	th Rer	<u>newal</u>		Project N	No <u>41131</u>			COMMENTS	
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Top of	Casing .			v	Vater Level	Initial	***************************************	_ Static		732	ع رحم
Screen:	: Dia _		_ Leng	yth		Type/Siz	ze			1125	<u>.</u>
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Drill	Со	Ken	<u>ره</u> ک ر	ماح		Method	d			568	
Driller	ROP	<u>~</u>	1	Log By ,	T.Davis		_ Date <u>23/11</u>	10 Permit	#	480	
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	(JINCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCR	RIPTION			3.50	D kg
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Description		Colour	Struct	ture	Moisture	Cohesive Soi	oils	Sand & Gravel			Secondary
FILL CLAY	clayey silty	red γellow	homog	igenous ogeneous	dry damp	very soft soft	non-plastic low plasticity	very loose loose	boulders cobbles	poorly sorted (well graded)	and (35-50%) some (20-35%)
SILT SAND	sandy gravelly	white	stratifi lamina	fied	moist wet	firm stiff	mod plasticity high plasticity	medium dense dense	coorse gravel fine gravel	well sorted (poorly	little (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic	brown grey	lens root hi	ıoles	saturated	very stiff hard	///g// p.z	very dense	coarse sand	graded)	Contamination
PEAT		mattled	occasio					l		'	***************************************
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Borehole # TP5

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Casing						ize				
Drill	Co	Kor	<u> </u>	<u>'O</u>	_ Metho	d				
Driller	POR	7	Log	By <u>T.Davis</u>	l	Date 23/11	(O Permit	#		
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DEPTH (METRES)	WELL CONSTRUCTIO	SAMPLE ID	(INCL. QA/QC REFERENCE)	PID (PPM) USCS CLASS	DESC	RIPTION				
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Description FILL	clayey	Colour red	Structure homogeno	Moisture ous dry	Cohesive S very soft	oils non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary
CLAY 5ILT SAND	silty sandy gravelly	yellow white black	heterogen stratified laminated	leous damp moist wet	soft firm stiff	low plasticity mod plasticity high plasticity	loose medium dense dense	cobbles coarse gravel fine gravel	(well graded) well sorted (poorly	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL PEAT	organic	brown grey mottled	tens root holes occasional		l very stiff hard		very dense	cmarse sand	graded)	Contamination
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Borehole # TP6

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Driller ,	*****			Log By .	T.Davis		_ Date <u>とう[い</u>	Permit	. #		
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	WELL CONSTRUCTION	غ ۾	(INCL. QA/QC REFERENCE)		SS	ļ					
I (ES)	TRU	E I	ĄÄ	(PPM)	CLASS	DESCR	RIPTION				
DEPTH (METRES)	J.S.	SAMPLE ID	고照	°	SCS						
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Description		Colour	Struc	ture	Moisture	Cohesive So	nile	Sand & Gravel			Secondary
FILL CLAY	clayey	red yellow	homo	ogenous rogeneous	dry damp	very soft soft	non-plastic	very loose loose	boulders cobbles	poorly sorted (well graded)	and (35-50%)
SILT SAND	sandy gravelly	white	stratil lamin	ified	damp moist wet	soft firm stiff	low plasticity mod plasticity	medium dense	coarse gravel	(well graded) well sorted	some (20-35%) little (10-20%)
GRAVEL TOPSOIL	organic		lamin lens root l		wet saturated	very stiff hard	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	trace (0-10%) Contamination
PEAT		mottled		nores Sional		naru		1	'		Contamination
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Borehole #

		vood North							COMMENTS	
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Screen	: Dia _	Le	ength		Type/Si	ze			3	
Casing:	Dia _	Le	ngth		_ Type/Siz	ze				
Drill	Со	Ken c	<u>iole</u>		Method	d				
Driller	ROB	<u></u>	_ Log By	T.Davis		_ Date <u>23/</u>	i/IO_ Permil	t #		
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	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)		SS						
DEPTH (METRES)	≧	SAMPLE ID (INCL. QA/	(MPM)	CLASS	DESCR	RIPTION				
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Description	i	Colour St	ructure	Moisture	Cohesive So	ilis	Sand & Gravel			Secondary
FILL CLAY	clayey silty	yellow he	mogenous terogeneous	dry damp	very soft soft	non-plastic low plasticity	very loose loose	boulders cobbles	poorly sorted (well graded)	and (35-50%) some (20-35%)
SILT SAND	sandy gravelly	white str black lan	atified ninated	moist wet	firm stiff	mod plasticity high plasticity	medium dense dense	coarse gravel fine gravel	well sorted (poorly	little (10-20%) trace (0-10%)
GRAVEL TOPSOIL	organic		ot holes	saturated	very stiff hard		very dense	coarse sand	graded)	Contamination
PEAT		mottled oc	casional							odour
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Borehole # TPIO

Project_	Riven	vood_Nor	th_Rei	newal		Project N	lo <u>41131</u>			COMMENTS	
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Casing:	Dia _		Lengi	th	*****	Type/Siz	e				
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Driller	ROF	لب		Log By _	T.Davis		1_ _ Date 23/10	0/10 Permit	#		
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ES)	WELL	E ID	REFERENCE)	(Wd	CLASS	DESCR	IPTION				
DEPTH (METRES)	WELL	SAMPLE ID	REFER	PID (PPM)	nscs		· · ·				
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Description		Colour	Struc		Maisture	Cohesive So		Sand & Gravel			Secondary
FILL CLAY SILT	clayey silty sandy	red yellow white		genous ogeneous Sed	dry damp moist	very soft soft firm	non-plastic low plasticity mod plasticity	very loase loose medium dense	boulders cobbles coarse grave)	poorly sorted (well graded) well sorted	and (35-50%) some (20-35%)
SAND GRAVEL	gravelly organic	biack brown	lamin lens	ated	wet saturated	stiff very stiff	high plasticity	dense very dense	fine gravel coarse sand	(poorly graded)	little (10-20%) trace (0-10%)
TOPSOIL PEAT		grey mottled	root h occasi			hard					Contamination
	<u> </u>		<u> </u>								odour



Borehole # TO13

Project_	Riverv	vood Nort	h Renew	ıal		Project N	lo <u>41131</u>			COMMENTS	
Total He	ole Dept	h	Nor	thing			Easting		l	Personal	
Top of (Casing _			w	ater Level	Initial		Static		TO 9	よろり
Screen:	Dia _		Length			Type/Siz	e			701	
Casing:	Dia _		Length			Type/Siz	e				
Drill	Co	Ken	ر دے/و	2		Method					
Driller	ROP	5-1	Log	Ву	T.Davis		e	O Permit	#		
		*									
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESCR	IPTION				
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Description		Colour	Structure		Moisture	Cohesive So		Sand & Gravel			Secondary
FILL CLAY SILT SAND	clayey silty sandy gravelly		homogen heteroger stratified laminated	1eous	dry damp moist wet	very soft soft firm stiff	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense	boulders cobbles coarse gravel fine gravel	poorly sorted (well graded) well sorted (poorly	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL PEAT	organic	grey mottled	iens root holes occasiona		saturated	very stiff hard		very dense	coarse sand	graded)	Contamination
											odour



Borehole # TP15

							No <u>41131</u> Easting			COMMENTS		
							castilly			459	grains	
Screen:	Dia _		Leng	th		Type/Siz	ze	**********			3	
Casing:	Dia _	V ~ ^	Lengt	h		_ Type/Siz	re	atar				
							_ Date 23/1		#			
				.09 .07 .	1.00,10			17 VG T CHINE	<i>T</i>			
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESC	RIPTION					
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Description	Ĭ3	Colour	Struct	ure	Moisture	Cohesive 5c		Sand & Gravel	. 1	1, 3	Secondary	
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homog hetero stratifi lamina lens root ho occasio	geneous ed ited oles	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very foose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination	



Borehole # TP16

Project_	River	vood_Nort	th Ren	iewal		Pro	oject N	lo <u>41131</u>			COMMENTS	
Total H	ole Depi	:h	1	Northing				Easting			.	
									Static		2190	~- <u>_</u>
Screen:	: Dia _		Leng	th		_ T	ype/Siz	e				
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Driller			L	oa Bv	T.Davis	•		Date 23/iv	/IO_Permit	#		
					1-1-7-1-1-1-7							
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS		DESCR	IPTION				
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Description FILL CLAY	clayey silty	Colour red yellow	hetero	jenous geneous	Moisture dry damp	Ve SO		non-plastic low plasticity	Sand & Gravel very loose loose	baulders cobbles	poorly sorted (well graded)	Secondary and (35-50%) some (20-35%)
SILT SAND GRAVEL TOPSOIL PEAT	sandy gravelly organic	white black brown grey mottled	stratifi famina fens root ho occasio	ited oles	moist wet saturated	firi sti ve ha	ff ry stiff	mod plasticity high plasticity	medium dense dense very dense	coarse gravel fine gravel coarse sand	well sorted (poarly graded)	little (10-20%) trace (0-10%) Contamination adour



Borehole # TOPS

Project	Rivery	vood_Nor	th Rene	wal		Project	No <u>41131</u>			COMMENTS	
Total H	ole Dept	h	No	orthing	******		Easting				
Top of	Casing _		.	W	/ater Level	Initial _		_ Static		12 50	cons
Screen:	Dia _		Length	1	****	Type/S	ize			•	
	Dia _		Length			_ Type/S	ize				
		١	. 1						i		
Driller	ROA	<u> </u>	Lo	g By	T.Davis		od Date <u>23]</u>	11/10 Permit	:#		
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DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID	REFERENCE)	PID (PPM)	USCS CLASS	DESC	RIPTION				
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Description FILL	clayey	Colour red	Structure homoger		Molsture dry	Cohesive S very soft	non-plastic	Sand & Gravel very loose	boulders	poorly sorted	Secondary and (35-50%)
CLAY SILT SAND	silty sandy gravelly	yellow white black	heteroge stratified laminate	neous I	damp moist wet	soft firm stiff	low plasticity mod plasticity high plasticity	logse medium dense dense	cobbles coarse gravel fine gravel	(well graded) well sorted (poorly	some (20-35%) little (10-20%) trace (0-10%)
GRAVEL TOPSOIL PEAT	organic	grey mottled	lens root hole occasion		saturated	very stiff hard		very dense	coarse sand	graded)	Contamination
· .			3.511								odour



Appendix D

Laboratory Reports and Chain of Custody Documentation



Envirolab Services Pty Ltd

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CERTIFICATE OF ANALYSIS 48995

Client:

JBS Environmental Pty Ltd P.O. Box 940 MASCOT NSW 1460

Attention: Sumi Dorairaj / Tim Davis

Sample log in details:

Your Reference: 41131

No. of samples: 66 Soils, 2 Waters, 1 Material

Date samples received: 26/11/10, 30/11/10

Date completed instructions received: 30/11/10

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:

7/12/10 Date results requested by: Date of Preliminary Report: Not issued Issue Date: 7/12/10

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Accredited for compliance with ISO/IEC 17025.

Tests not covered by NATA are denoted with *.

Results Approved By:

M. Mausfield Matt Mansfield Approved Signatory

Reporting Supervisor

Nancy Zhang

Chemist

Envirolab Reference: 48995 Revision No:

R 00

TECHNICAL

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vTRH & BTEX in Soil						
Our Reference:	UNITS	48995-2	48995-6	48995-14	48995-18	48995-19
Your Reference		TP37	TP41	TP47	TP51	TP52
Depth		0.8-0.9	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	=	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	05/12/2010	05/12/2010	05/12/2010	05/12/2010	05/12/2010
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	%	104	109	107	114	108
vTRH & BTEX in Soil						
Our Reference:	UNITS	48995-26	48995-28	48995-30	48995-36	48995-40
Your Reference		TP58	TP59	TP61	TP66	TP69
Depth Date Sampled		0.1-0.2 26/11/2010	0.6-0.7 26/11/2010	0.1-0.2 26/11/2010	0.1-0.3 26/11/2010	0.1-0.2 26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	_	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date extracted Date analysed	-	05/12/2010	05/12/2010	05/12/2010	05/12/2010	05/12/2010
vTRH C6 - C9	-	<25	<25	<25	<25	<25
	mg/kg					
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	%	116	116	110	108	108
vTRH & BTEX in Soil						
Our Reference:	UNITS	48995-43	48995-46	48995-49	48995-52	48995-58
Your Reference		TP72	TP74	TP77	TP79	TP84
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.5-0.6	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	30/11/2010	30/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	05/12/2010	05/12/2010	05/12/2010	05/12/2010	05/12/2010
vTRH C6 - C9	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	116	111	112	79
-	1	1	I	I	I	I

vTRH & BTEX in Soil				
Our Reference:	UNITS	48995-61	48995-63	48995-65
Your Reference		TP86	QC3	QC5
Depth		0.5-0.6	-	-
Date Sampled		30/11/2010	26/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	05/12/2010	05/12/2010	05/12/2010
vTRH C6 - C9	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	%	114	110	110

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	48995-2	48995-6	48995-14	48995-18	48995-19
Your Reference		TP37	TP41	TP47	TP51	TP52
Depth		0.8-0.9	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
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	140	<100	120	120
Surrogate o-Terphenyl	%	104	121	108	101	109
oTDU in Soil (C40 C26)						
sTRH in Soil (C10-C36) Our Reference:	UNITS	48995-26	48995-28	48995-30	48995-36	48995-40
Your Reference		TP58	TP59	TP61	TP66	TP69
Depth		0.1-0.2	0.6-0.7	0.1-0.2	0.1-0.3	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
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 C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	100	96	96	103	100
aTDIL :a Cail (C40 C20)						
sTRH in Soil (C10-C36) Our Reference:	UNITS	48995-43	48995-46	48995-49	48995-52	48995-58
Your Reference		TP72	TP74	TP77	TP79	TP84
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.5-0.6	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	30/11/2010	30/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
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 C29 - C36	mg/kg	<100	<100	<100	<100	<100

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Surrogate o-Terphenyl

%

97

97

92

94

93

sTRH in Soil (C10-C36)				
Our Reference:	UNITS	48995-61	48995-63	48995-65
Your Reference		TP86	QC3	QC5
Depth		0.5-0.6	-	-
Date Sampled		30/11/2010	26/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100
Surrogate o-Terphenyl	%	88	94	89

PAHs in Soil						
Our Reference:	UNITS	48995-2	48995-6	48995-14	48995-18	48995-19
Your Reference		TP37	TP41	TP47	TP51	TP52
Depth		0.8-0.9	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	03/12/2010	03/12/2010	03/12/2010	03/12/2010	03/12/2010
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	0.1	0.2	<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	0.3	0.9	2.0	0.2
Anthracene	mg/kg	<0.1	<0.1	0.1	0.3	<0.1
Fluoranthene	mg/kg	<0.1	0.8	1.7	3.5	0.5
Pyrene	mg/kg	<0.1	0.8	1.7	3.4	0.5
Benzo(a)anthracene	mg/kg	<0.1	0.3	0.5	1.1	0.2
Chrysene	mg/kg	<0.1	0.3	0.6	1.2	0.2
Benzo(b+k)fluoranthene	mg/kg	<0.2	0.6	1.2	2.4	0.3
Benzo(a)pyrene	mg/kg	<0.05	0.4	1	1.8	0.2
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.3	0.6	1.3	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	0.3	0.7	1.4	0.2
Surrogate p-Terphenyl-d14	%	86	88	80	74	80

PAHs in Soil						
Our Reference:	UNITS	48995-26	48995-28	48995-30	48995-36	48995-40
Your Reference		TP58	TP59	TP61	TP66	TP69
Depth		0.1-0.2	0.6-0.7	0.1-0.2	0.1-0.3	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	03/12/2010	03/12/2010	03/12/2010	03/12/2010	03/12/2010
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	0.4	<0.1	<0.1	0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.7	<0.1	0.1	0.2	<0.1
Pyrene	mg/kg	0.7	<0.1	0.1	0.2	<0.1
Benzo(a)anthracene	mg/kg	0.2	<0.1	<0.1	0.1	<0.1
Chrysene	mg/kg	0.2	<0.1	<0.1	0.2	<0.1
Benzo(b+k)fluoranthene	mg/kg	0.4	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.3	<0.05	0.05	0.1	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<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	0.2	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d ₁₄	%	75	73	73	78	75

PAHs in Soil						
Our Reference:	UNITS	48995-43	48995-46	48995-49	48995-52	48995-58
Your Reference		TP72	TP74	TP77	TP79	TP84
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.5-0.6	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	30/11/2010	30/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	03/12/2010	03/12/2010	03/12/2010	03/12/2010	03/12/2010
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	0.06	<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-d14	%	74	78	73	75	72

PAHs in Soil				
Our Reference:	UNITS	48995-61	48995-63	48995-65
Your Reference		TP86	QC3	QC5
Depth		0.5-0.6	-	-
Date Sampled		30/11/2010	26/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	03/12/2010	03/12/2010	03/12/2010
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	0.2	<0.1
Pyrene	mg/kg	<0.1	0.2	<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	0.1	<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	%	71	73	71

Organochlorine Pesticides in soil						
Our Reference:	UNITS	48995-6	48995-14	48995-18	48995-19	48995-26
Your Reference		TP41	TP47	TP51	TP52	TP58
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled Type of sample		25/11/2010 Soil	25/11/2010 Soil	25/11/2010 Soil	25/11/2010 Soil	26/11/2010 Soil
Type of sample						
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
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	%	129	118	113	120	114

Organochlorine Pesticides in soil						
Our Reference:	UNITS	48995-30	48995-36	48995-40	48995-43	48995-46
Your Reference		TP61	TP66	TP69	TP72	TP74
Depth		0.1-0.2	0.1-0.3	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled Type of sample		26/11/2010 Soil	26/11/2010 Soil	26/11/2010 Soil	26/11/2010 Soil	26/11/2010 Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
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	114	116	114	113

Organochlorine Pesticides in soil					
Our Reference:	UNITS	48995-49	48995-58	48995-63	48995-65
Your Reference		TP77	TP84	QC3	QC5
Depth		0.1-0.2	0.1-0.2	-	-
Date Sampled		30/11/2010	30/11/2010	26/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010
НСВ	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	110	93	106

Organophosphorus Pesticides						
Our Reference:	UNITS	48995-6	48995-14	48995-18	48995-19	48995-26
Your Reference		TP41	TP47	TP51	TP52	TP58
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
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
Chlorpyriphos-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
Chlorpyriphos	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	%	129	118	113	120	114

Organophosphorus Pesticides						
Our Reference:	UNITS	48995-30	48995-36	48995-40	48995-43	48995-46
Your Reference		TP61	TP66	TP69	TP72	TP74
Depth		0.1-0.2	0.1-0.3	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
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
Chlorpyriphos-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
Chlorpyriphos	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	114	116	114	113

Organophosphorus Pesticides					
Our Reference:	UNITS	48995-49	48995-58	48995-63	48995-65
Your Reference		TP77	TP84	QC3	QC5
Depth		0.1-0.2	0.1-0.2	-	-
Date Sampled		30/11/2010	30/11/2010	26/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	110	93	106

PCBs in Soil						
Our Reference:	UNITS	48995-6	48995-14	48995-18	48995-19	48995-26
Your Reference		TP41	TP47	TP51	TP52	TP58
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	129	118	113	120	114
PCBs in Soil						
Our Reference:	UNITS	48995-30	48995-36	48995-40	48995-43	48995-46
Your Reference		TP61	TP66	TP69	TP72	TP74
Depth		0.1-0.2	0.1-0.3	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil

02/12/2010

02/12/2010

<0.1

< 0.1

<0.1

<0.1

< 0.1

<0.1

<0.1

110

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

%

02/12/2010

02/12/2010

<0.1

<0.1

<0.1

<0.1

<0.1

<0.1

<0.1

114

02/12/2010

02/12/2010

<0.1

< 0.1

<0.1

<0.1

< 0.1

<0.1

<0.1

116

02/12/2010

02/12/2010

<0.1

< 0.1

<0.1

<0.1

< 0.1

< 0.1

< 0.1

114

02/12/2010

02/12/2010

<0.1

<0.1

<0.1

<0.1

<0.1

<0.1

<0.1

113

Envirolab Reference: 48995 Revision No: R 00

Date extracted

Date analysed

Arochlor 1016

Arochlor 1221*

Arochlor 1232

Arochlor 1242

Arochlor 1248

Arochlor 1254

Arochlor 1260

Surrogate TCLMX

PCBs in Soil					
Our Reference:	UNITS	48995-49	48995-58	48995-63	48995-65
Your Reference		TP77	TP84	QC3	QC5
Depth		0.1-0.2	0.1-0.2	-	-
Date Sampled		30/11/2010	30/11/2010	26/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	110	93	106

Acid Extractable metals in soil						
Our Reference:	UNITS	48995-2	48995-6	48995-14	48995-18	48995-19
Your Reference		TP37	TP41	TP47	TP51	TP52
Depth		0.8-0.9	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Arsenic	mg/kg	5	11	7	8	6
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	14	30	21	27	7
Copper	mg/kg	12	34	19	31	23
Lead	mg/kg	18	62	67	50	50
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	5	6	5	9	11
Zinc	mg/kg	10	65	120	71	91

Acid Extractable metals in soil						
Our Reference:	UNITS	48995-26	48995-28	48995-30	48995-36	48995-40
Your Reference		TP58	TP59	TP61	TP66	TP69
Depth		0.1-0.2	0.6-0.7	0.1-0.2	0.1-0.3	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Arsenic	mg/kg	10	9	9	6	7
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	23	36	29	23	11
Copper	mg/kg	14	4	53	50	14
Lead	mg/kg	66	22	49	61	48
Mercury	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Nickel	mg/kg	5	3	5	11	6
Zinc	mg/kg	55	4	43	440	190

Acid Extractable metals in soil						
Our Reference:	UNITS	48995-43	48995-46	48995-49	48995-52	48995-58
Your Reference		TP72	TP74	TP77	TP79	TP84
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.5-0.6	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	30/11/2010	30/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Arsenic	mg/kg	11	10	10	12	9
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	19	30	28	34	24
Copper	mg/kg	50	12	79	3	13
Lead	mg/kg	390	50	68	21	71
Mercury	mg/kg	<0.1	0.2	0.1	<0.1	<0.1
Nickel	mg/kg	6	4	4	2	4
Zinc	mg/kg	230	34	56	3	64

Acid Extractable metals in soil				
Our Reference:	UNITS	48995-61	48995-63	48995-65
Your Reference		TP86	QC3	QC5
Depth		0.5-0.6	-	-
Date Sampled		30/11/2010	26/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil
Date digested	-	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010
Arsenic	mg/kg	11	9	8
Cadmium	mg/kg	<0.5	<0.5	<0.5
Chromium	mg/kg	31	24	180
Copper	mg/kg	1	16	26
Lead	mg/kg	19	60	62
Mercury	mg/kg	<0.1	0.1	<0.1
Nickel	mg/kg	2	5	6
Zinc	mg/kg	2	58	58

		T	I			
Moisture						
Our Reference:	UNITS	48995-2	48995-6	48995-14	48995-18	48995-19
Your Reference		TP37	TP41	TP47	TP51	TP52
Depth		0.8-0.9	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled Type of sample		25/11/2010 Soil	25/11/2010 Soil	25/11/2010 Soil	25/11/2010 Soil	25/11/2010 Soil
Type of Sample		3011	3011	3011	3011	3011
Date prepared	-	2/12/2010	2/12/2010	2/12/2010	2/12/2010	2/12/2010
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Moisture	%	24	24	23	17	15
Moisture						
Our Reference:	UNITS	48995-26	48995-28	48995-30	48995-36	48995-40
Your Reference		TP58	TP59	TP61	TP66	TP69
Depth		0.1-0.2	0.6-0.7	0.1-0.2	0.1-0.3	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	2/12/2010	2/12/2010	2/12/2010	2/12/2010	2/12/2010
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Moisture	%	18	25	24	20	19
Moisture						
Our Reference:	UNITS	48995-43	48995-46	48995-49	48995-52	48995-58
Your Reference		TP72	TP74	TP77	TP79	TP84
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.5-0.6	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	30/11/2010	30/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	2/12/2010	2/12/2010	2/12/2010	2/12/2010	2/12/2010
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Moisture	%	6.0	17	17	19	27
Moisture						
	UNITS	4900F 64	49005 63	48995-65		
Our Reference: Your Reference	UNITS	48995-61 TP86	48995-63 QC3			
Pour Reference Depth		0.5-0.6	QCS	QC5		
Date Sampled		30/11/2010	26/11/2010	30/11/2010		
Type of sample		Soil	Soil	Soil		
Date prepared	-	2/12/2010	2/12/2010	2/12/2010	_	
	-	3/12/2010				
Date analysed	-		3/12/2010	3/12/2010		
Moisture	%	19	18	24	1	

Asbestos ID - soils						
Our Reference:	UNITS	48995-1	48995-2	48995-3	48995-4	48995-5
Your Reference		TP37	TP37	TP38	TP39	TP40
Depth		0.1-0.2	0.8-0.9	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	_	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
•						
Sample Description	-	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 33g Soil
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbestos	Chrysotile
		found at	found at	found at	found at	asbestos
		reporting limit	reporting limit	reporting limit	reporting limit	detected
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	
Trace Analysis	-	Respirable fibres not	Respirable fibres not	Respirable fibres not	Respirable fibres not	Respirable fibres not
		detected	detected	detected	detected	detected
		dottotted	deteoted	dotootod	dotootod	dottottod
Asbestos ID - soils						
Our Reference:	UNITS	48995-6	48995-7	48995-8	48995-10	48995-11
Your Reference		TP41	TP42	TP43	TP44	TP45
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Sample Description	-	Approx 30g	Approx 27g	Approx 30g	Approx 30g	Approx 30g
		Soil	Soil	Soil	Soil	Soil
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbestos	No asbestos
		found at	found at	found at	found at	found at
		reporting limit	reporting limit	reporting limit	reporting limit	reporting limit
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
		fibres not detected	fibres not detected	fibres not detected	fibres not detected	fibres not detected
		dottottod	dotodiod	dotootod	doloolod	dottottod
Asbestos ID - soils						
Our Reference:	UNITS	48995-12	48995-14	48995-15	48995-16	48995-17
Your Reference		TP46	TP47	TP48	TP49	TP50
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Sample Description	-	Approx 33g	Approx 30g	Approx 30g	Approx 30g	Approx 30g
		Soil	Soil	Soil	Soil	Soil
Asbestos ID in soil	-	Chrysotile	No asbestos	No asbestos	No asbestos	No asbestos
		asbestos	found at	found at	found at	found at
		detected	reporting limit	reporting limit	reporting limit	reporting limit
T		D	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
		fibres not detected	fibres not detected	fibres not detected	fibres not detected	fibres not detected
		uelecteu	uelecteu	uelecteu	uelecteu	uetecteu

Asbestos ID - soils						
Our Reference:	UNITS	48995-18	48995-19	48995-21	48995-22	48995-23
Your Reference		TP51	TP52	TP53	TP54	TP55
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Sample Description	-	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbestos	No asbestos
		found at	found at	found at	found at	found at
		reporting limit	reporting limit	reporting limit	reporting limit	reporting limit
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
		fibres not	fibres not	fibres not	fibres not	fibres not
		detected	detected	detected	detected	detected
Asbestos ID - soils						
Our Reference:	UNITS	48995-24	48995-25	48995-26	48995-27	48995-28
Your Reference		TP56	TP57	TP58	TP59	TP59
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.6-0.7
Date Sampled		25/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Sample Description	_	Approx 30g	Approx 30g	Approx 30g	Approx 30g	Approx 30g
Cap.o 2 000p.uo		Soil	Soil	Soil	Soil	Soil
Asbestos ID in soil	_	No asbestos	No asbestos	No asbestos	No asbestos	No asbestos
		found at	found at	found at	found at	found at
		reporting limit	reporting limit	reporting limit	reporting limit	reporting limit
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
		fibres not	fibres not	fibres not	fibres not	fibres not
		detected	detected	detected	detected	detected
Ashastas ID asile						
Asbestos ID - soils Our Reference:	UNITS	48995-29	4900F 20	4900E 24	4900E 22	4800E 24
Your Reference	UNITS		48995-30	48995-31	48995-33	48995-34 TP64
		TP60	TP61	TP62	TP63	
Depth Date Complete		0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled Type of sample		26/11/2010 Soil	26/11/2010 Soil	26/11/2010 Soil	26/11/2010 Soil	26/11/2010 Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Sample Description	-	Approx 30g	Approx 30g	Approx 30g	Approx 30g	Approx 30g
		Soil	Soil	Soil	Soil	Soil
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbestos	No asbestos
		found at	found at	found at	found at	found at
		reporting limit	reporting limit	reporting limit	reporting limit	reporting limit
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
		fibres not detected	fibres not detected	fibres not detected	fibres not detected	fibres not detected
		uetecteu	uetecteu	uetecteu	นฮเฮนเฮน	uetecteu

A.L. (D. 1)						
Asbestos ID - soils	LINUTO	40005.05	40005.00	40005.07	40005.00	10005 10
Our Reference:	UNITS	48995-35	48995-36	48995-37	48995-38	48995-40
Your Reference		TP65 0.1-0.2	TP66	TP67	TP68	TP69 0.1-0.2
Depth Samulad			0.1-0.3 26/11/2010	0.1-0.2	0.2-0.3	26/11/2010
Date Sampled Type of sample		26/11/2010 Soil	26/11/2010 Soil	26/11/2010 Soil	26/11/2010 Soil	26/11/2010 Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Sample Description	-	Approx 30g Soil	Approx 30g Soil	Approx 27g Soil	Approx 30g Soil	Approx 30g Soil
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	48995-41	48995-42	48995-43	48995-45	48995-46
Your Reference		TP70	TP71	TP72	TP73	TP74
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	6/12/2010
Sample Description	-	Approx 27g Soil	Approx 27g Soil	Approx 35g Soil	Approx 35g Soil	Approx 35g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	Chrysotile asbestos detected Amosite asbestos detected	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	48995-47	48995-48	48995-49	48995-50	48995-51
Your Reference		TP75	TP76	TP77	TP78	TP79
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	30/11/2010	30/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	6/12/2010	6/12/2010	6/12/2010	6/12/2010	6/12/2010
Sample Description	-	Approx 15g	Approx 35g	Approx 30g	Approx 30g	Approx 30g
		Soil	Soil	Soil	Soil	Soil
Asbestos ID in soil	-	Chrysotile asbestos detected	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	Respirable fibres not	Respirable fibres not	Respirable fibres not	Respirable fibres not
		detected	detected	detected	detected	detected

Asbestos ID - soils						
Our Reference:	UNITS	48995-52	48995-53	48995-54	48995-55	48995-57
Your Reference		TP79	TP80	TP81	TP82	TP83
Depth		0.5-0.6	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	6/12/2010	6/12/2010	6/12/2010	6/12/2010	6/12/2010
Sample Description	_	Approx 30g	Approx 30g	Approx 30g	Approx 30g	Approx 30g
		Soil	Soil	Soil	Soil	Soil
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbestos	Chrysotile
		found at	found at	found at	found at	asbestos
		reporting limit	reporting limit	reporting limit	reporting limit	detected
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
		fibres not	fibres not	fibres not	fibres not	fibres not
		detected	detected	detected	detected	detected
Ashastas ID. saile						
Asbestos ID - soils	LINUTO	10005 50	40005 50	10005.00	10005.01	40005.00
Our Reference:	UNITS	48995-58	48995-59	48995-60	48995-61	48995-62
Your Reference		TP84	TP85	TP86	TP86	TP87
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.5-0.6	0.1-0.2
Date Sampled		30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/201
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	6/12/2010	6/12/2010	6/12/2010	6/12/2010	6/12/2010
Sample Description	-	Approx 20g	Approx 30g	Approx 30g	Approx 30g	Approx 30
		Soil	Soil	Soil	Soil	Soil
Asbestos ID in soil	-	Chrysotile	No asbestos	No asbestos	No asbestos	No asbesto
		asbestos	found at	found at	found at	found at
		detected	reporting limit	reporting limit	reporting limit	reporting lin
			of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
		fibres not	fibres not	fibres not	fibres not	fibres no
		detected	detected	detected	detected	detected
Asbestos ID - soils				7		
Our Reference:	UNITS	48995-63	48995-65			
	UNITS					
Your Reference		QC3	QC5			
Depth		-	-			
Date Sampled		26/11/2010	30/11/2010			
Type of sample		Soil	Soil			
Date analysed	-	6/12/2010	6/12/2010			
Sample Description	-	Approx 30g	Approx 30g			

Asbestos ID - soils			
Our Reference:	UNITS	48995-63	48995-65
Your Reference		QC3	QC5
Depth		-	-
Date Sampled		26/11/2010	30/11/2010
Type of sample		Soil	Soil
Date analysed	-	6/12/2010	6/12/2010
Sample Description	-	Approx 30g Soil	Approx 30g Soil
Asbestos ID in soil	-	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

BTEX in Water			
Our Reference:	UNITS	48995-66	48995-67
Your Reference		Trip Blank	Trip Spike
Depth		-	-
Date Sampled		30/11/2010	30/11/2010
Type of sample		Water	Water
Date extracted	-	04/12/2010	04/12/2010
Date analysed	-	04/12/2010	04/12/2010
Benzene	μg/L	<1.0	92%
Toluene	μg/L	<1.0	93%
Ethylbenzene	μg/L	<1.0	90%
m+p-xylene	μg/L	<2.0	90%
o-xylene	μg/L	<1.0	90%
Surrogate Dibromofluoromethane	%	99	101
Surrogate toluene-d8	%	96	102
Surrogate 4-BFB	%	104	100

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.
GC-6	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
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.
AS4964-2004	Asbestos ID - Qualitative identification of asbestos type fibres in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques.

VTRH & STEX in Soil	QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike %
Date extracted	ATDIL O DESCRIPTION						D II D II II		Recovery
Date analysed							·		
VTRH Cs - Cs mg/kg 25 GC.16 <25 48995-6 <25 425 LCS-7 81% Benzene mg/kg 0.5 GC.16 <0.5	Date extracted	-				48995-6	02/12/2010 02/12/2010	LCS-7	02/12/2010
Benzone	Date analysed	-				48995-6	05/12/2010 05/12/2010	LCS-7	05/12/2010
Toluane	vTRH C6 - C9	mg/kg	25	GC.16	<25	48995-6	<25 <25	LCS-7	81%
Ethylbenzene	Benzene	mg/kg	0.5	GC.16	<0.5	48995-6	<0.5 <0.5	LCS-7	75%
m+p-xylene	Toluene	mg/kg	0.5	GC.16	<0.5	48995-6	<0.5 <0.5	LCS-7	76%
C-Xylene	Ethylbenzene	mg/kg	1	GC.16	<1.0	48995-6	<1.0 <1.0	LCS-7	82%
Surrogate asa-Influencioluene % GC.16 122 48995-6 109 109 179	m+p-xylene	mg/kg	2	GC.16	<2.0	48995-6	<2.0 <2.0	LCS-7	86%
Acenaphthene Method Blank Duplicate Sm# Duplicate results Spike Sm# Recovery	o-Xylene	mg/kg	1	GC.16	<1.0	48995-6	<1.0 <1.0	LCS-7	89%
STRH in Soil (C10-C36) Base Duplicate %RPD Recovery	_	%		GC.16	122	48995-6	109 109 RPD: 0	LCS-7	119%
Date extracted	QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	
Date analysed -	sTRH in Soil (C10-C36)						Base II Duplicate II %RPD		,
TRH C10 - C14	Date extracted	-				48995-6	02/12/2010 02/12/2010	LCS-7	02/12/2010
TRH Cts - Czs mg/kg 100 GC.3 <100 48995-6 <100 <100 LCS-7 85% TRH Czs - Czs mg/kg 100 GC.3 <100	Date analysed	-				48995-6	02/12/2010 02/12/2010	LCS-7	02/12/2010
TRH C29 - C36	TRH C10 - C14	mg/kg	50	GC.3	<50	48995-6	<50 <50	LCS-7	86%
Surrogate o-Terphenyl % GC.3 93 48995-6 121 102 RPD: 17 LCS-7 101%	TRH C ₁₅ - C ₂₈	mg/kg	100	GC.3	<100	48995-6	<100 <100	LCS-7	85%
QUALITY CONTROL UNITS PQL METHOD Blank Duplicate Sm# Duplicate results Spike Sm# Spike Sm# Recovery	TRH C29 - C36	mg/kg	100	GC.3	<100	48995-6	140 140 RPD: 0	LCS-7	81%
PAHs in Soil Base Duplicate %RPD Recovery	_	%		GC.3	93	48995-6	121 102 RPD: 17	LCS-7	101%
PAHs in Soil Base Duplicate %RPD Recovery	QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike %
Date extracted									Recovery
Date analysed -	PAHs in Soil						Base II Duplicate II %RPD		
Naphthalene mg/kg 0.1 GC.12 subset <0.1 48995-6 <0.1 <0.1 LCS-4 77% Acenaphthylene mg/kg 0.1 GC.12 subset <0.1	Date extracted	-			1	48995-6	02/12/2010 02/12/2010	LCS-4	02/12/2010
Subset S	Date analysed	-			1	48995-6	03/12/2010 03/12/2010	LCS-4	03/12/2010
Subset S	Naphthalene	mg/kg	0.1		<0.1	48995-6	<0.1 <0.1	LCS-4	77%
Fluorene mg/kg 0.1 GC.12 <0.1 48995-6 <0.1 <0.1 LCS-4 89%	Acenaphthylene	mg/kg	0.1		<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Subset S	Acenaphthene	mg/kg	0.1		<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Anthracene mg/kg 0.1 GC.12 <0.1 48995-6 <0.1 <0.1 <0.1 [NR] [NR]	Fluorene	mg/kg	0.1		<0.1	48995-6	<0.1 <0.1	LCS-4	89%
Subset S	Phenanthrene	mg/kg	0.1		<0.1	48995-6	0.3 0.3 RPD: 0	LCS-4	98%
Pyrene mg/kg 0.1 GC.12 <0.1 48995-6 0.8 0.6 RPD: 29 LCS-4 91%		1		1	1	18005.6	-0.1 -0.1	[NID]	[NR]
	Anthracene	mg/kg	0.1		<0.1	40993-0	20.1 20.1	[INK]	[iviv]
				subset GC.12					

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Client Reference: 41131 PQL METHOD Blank Duplicate Sm# Duplicate results Spike Sm#

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	0.3 0.2 RPD: 40	[NR]	[NR]
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	0.3 0.2 RPD: 40	LCS-4	111%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	48995-6	0.6 0.4 RPD: 40	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	48995-6	0.4 0.3 RPD: 29	LCS-4	94%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	0.3 0.2 RPD: 40	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	0.3 0.3 RPD: 0	[NR]	[NR]
Surrogate p-Terphenyl-d ₁₄	%		GC.12 subset	66	48995-6	88 72 RPD: 20	LCS-4	70%
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	-			02/12/2	48995-6	02/12/2010 02/12/2010	LCS-7	02/12/2010
				010				
Date analysed	-			02/12/2 010	48995-6	02/12/2010 02/12/2010	LCS-7	02/12/2010
HCB	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	LCS-7	78%
gamma-BHC	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	LCS-7	77%
Heptachlor	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	LCS-7	71%
delta-BHC	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	LCS-7	76%
Heptachlor Epoxide	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	LCS-7	75%
gamma-Chlordane	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	LCS-7	74%
Dieldrin	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	LCS-7	76%
Endrin	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	LCS-7	75%
pp-DDD	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	LCS-7	76%
Endosulfan II	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	LCS-7	76%
Methoxychlor	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		GC-5	104	48995-6	129 100 RPD: 25	LCS-7	104%

Envirolab Reference: 48995 Revision No: R 00

Blank

Duplicate Sm#

Duplicate results

Spike Sm#

Spike % Recovery

METHOD

QUALITY CONTROL

UNITS

PQL

Organophosphorus Pesticides						Base II Duplicate II %RPD		recovery
Date extracted	-			02/12/2 010	48995-6	02/12/2010 02/12/2010	LCS-7	02/12/2010
Date analysed	-			02/12/2 010	48995-6	02/12/2010 02/12/2010	LCS-7	02/12/2010
Diazinon	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos-methyl	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1 <0.1	LCS-7	118%
Fenitrothion	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1 <0.1	LCS-7	129%
Bromophos-ethyl	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1 <0.1	LCS-7	97%
Surrogate TCLMX	%		GC.8	104	48995-6	129 100 RPD: 25	LCS-7	111%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			02/12/2 010	48995-6	02/12/2010 02/12/2010	LCS-7	02/12/2010
Date analysed	-			02/12/2 010	48995-6	02/12/2010 02/12/2010	LCS-7	02/12/2010
Arochlor 1016	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1 <0.1	LCS-7	102%
Arochlor 1260	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		GC-6	104	48995-6	129 100 RPD: 25	LCS-7	100%
					1			
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	-			02/12/2 010	48995-6	02/12/2010 02/12/2010	LCS-2	02/12/2010
Date analysed	-			02/12/2 010	48995-6	02/12/2010 02/12/2010	LCS-2	02/12/2010
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4	48995-6	11 9 RPD: 20	LCS-2	98%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	48995-6	<0.5 <0.5	LCS-2	99%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1	48995-6	30 23 RPD: 26	LCS-2	97%
Copper	mg/kg	1	Metals.20 ICP-AES	<1	48995-6	34 34 RPD: 0	LCS-2	102%
	-1	1	1	1	1		1	1

Client Reference: 41131													
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery					
Acid Extractable metals in soil						Base II Duplicate II %RPD							
Lead	mg/kg	1	Metals.20 ICP-AES	<1	48995-6	62 65 RPD: 5	LCS-2	98%					
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	48995-6	<0.1 <0.1	LCS-2	112%					
Nickel	mg/kg	1	Metals.20 ICP-AES	<1	48995-6	6 6 RPD: 0	LCS-2	103%					
Zinc	mg/kg	1	Metals.20	<1	48995-6	65 67 RPD: 3	LCS-2	98%					

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			02/12/2 010
Date analysed	-			03/12/2 010
Moisture	%	0.1	LAB.8	<0.10

ICP-AES

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Asbestos ID - soils				
Date analysed	-			[NT]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results		Spike Sm#	Spike % Recovery
BTEX in Water						Base II Duplicate II %RPD		,	
Date extracted	-			04/12/2 010	[NT]	[NT]	LCS-W1	04/12/2010	
Date analysed	-			04/12/2 010	[NT]	[NT]		LCS-W1	04/12/2010
Benzene	μg/L	1	GC.16	<1.0	[NT]	[NT]		LCS-W1	99%
Toluene	μg/L	1	GC.16	<1.0	[NT]	[NT]		LCS-W1	99%
Ethylbenzene	μg/L	1	GC.16	<1.0	[NT]	[NT]		LCS-W1	100%
m+p-xylene	μg/L	2	GC.16	<2.0	[NT]	[NT]		LCS-W1	99%
o-xylene	μg/L	1	GC.16	<1.0	[NT]	[NT]		LCS-W1	100%
Surrogate Dibromofluoromethane	%		GC.16	105	[NT]	[NT]		LCS-W1	101%
Surrogate toluene-d8	%		GC.16	102	[NT]	[NT]		LCS-W1	101%
Surrogate 4-BFB	%		GC.16	107	[NT]	[NT]		LCS-W1	102%
QUALITY CONTROL	UNITS	S	Dup. Sm#		Duplicate	Spike Sm#	Spik	ke % Recovery	
vTRH & BTEX in Soil				Base +	Duplicate + %RPD)			
Date extracted	-		48995-46	02/12/2	010 02/12/2010	48995-14	(02/12/2010	
Date analysed	-		48995-46	05/12/2	010 05/12/2010	48995-14	(05/12/2010	
vTRH C6 - C9	mg/k	g	48995-46		<25 <25	48995-14	78%		
Benzene	mg/k	g	48995-46		<0.5 <0.5	48995-14	73%		
Toluene	mg/k	g	48995-46		<0.5 <0.5	48995-14		74%	
Ethylbenzene	mg/k	g	48995-46		<1.0 <1.0	48995-14		78%	

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Client Reference: 41131													
QUALITY CONTROL vTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery								
			·										
m+p-xylene	mg/kg	48995-46	<2.0 <2.0	48995-14	83%								
o-Xylene	mg/kg	48995-46	<1.0 <1.0	48995-14	85%								
<i>Surrogate</i> aaa-Trifluorotoluene	%	48995-46	116 110 RPD: 5	48995-14	106%								
QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Spike % Recovery								
sTRH in Soil (C10-C36)			Base + Duplicate + %RPD										
Date extracted	-	48995-46	02/12/2010 02/12/2010	48995-5	02/12/2010								
Date analysed	-	48995-46	02/12/2010 02/12/2010	48995-5	02/12/2010								
TRH C ₁₀ - C ₁₄	mg/kg	48995-46	<50 <50	48995-5	95%								
TRH C ₁₅ - C ₂₈	mg/kg	48995-46	<100 <100	48995-5	101%								
TRH C29 - C36	mg/kg	48995-46	<100 <100	48995-5	103%								
Surrogate o-Terphenyl	%	48995-46	97 91 RPD: 6	48995-5	102%								
QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Spike % Recovery								
PAHs in Soil			Base + Duplicate + %RPD										
Date extracted	-	48995-46	02/12/2010 02/12/2010	48995-14	02/12/2010								
Date analysed	-	48995-46	03/12/2010 03/12/2010	48995-14	03/12/2010								
Naphthalene	mg/kg	48995-46	<0.1 <0.1	48995-14	100%								
Acenaphthylene	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]								
Acenaphthene	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]								
Fluorene	mg/kg	48995-46	<0.1 <0.1	48995-14	107%								
Phenanthrene	mg/kg	48995-46	<0.1 <0.1	48995-14	#								
Anthracene	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]								
Fluoranthene	mg/kg	48995-46	0.1 0.1 RPD: 0	48995-14	#								
Pyrene	mg/kg	48995-46	0.1 0.1 RPD: 0	48995-14	#								
Benzo(a)anthracene	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]								
Chrysene	mg/kg	48995-46	<0.1 <0.1	48995-14	#								
Benzo(b+k)fluoranthene	mg/kg	48995-46	<0.2 <0.2	[NR]	[NR]								
Benzo(a)pyrene	mg/kg	48995-46	0.05 <0.05	48995-14	#								
Indeno(1,2,3-c,d)pyrene	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]								
Dibenzo(a,h)anthracene	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]								
Benzo(g,h,i)perylene	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]								
Surrogate p-Terphenyl-d ₁₄	%	48995-46	78 70 RPD: 11	48995-14	75%								

Client Reference: 41131												
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery							
Date extracted	-	48995-46	02/12/2010 02/12/2010	48995-14	02/12/2010							
Date analysed	-	48995-46	02/12/2010 02/12/2010	48995-14	02/12/2010							
HCB	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]							
alpha-BHC	mg/kg	48995-46	<0.1 <0.1	48995-14	85%							
gamma-BHC	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]							
beta-BHC	mg/kg	48995-46	<0.1 <0.1	48995-14	84%							
Heptachlor	mg/kg	48995-46	<0.1 <0.1	48995-14	89%							
delta-BHC	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]							
Aldrin	mg/kg	48995-46	<0.1 <0.1	48995-14	83%							
Heptachlor Epoxide	mg/kg	48995-46	<0.1 <0.1	48995-14	83%							
gamma-Chlordane	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]							
alpha-chlordane	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]							
Endosulfan I	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]							
pp-DDE	mg/kg	48995-46	<0.1 <0.1	48995-14	81%							
Dieldrin	mg/kg	48995-46	<0.1 <0.1	48995-14	85%							
Endrin	mg/kg	48995-46	<0.1 <0.1	48995-14	87%							
pp-DDD	mg/kg	48995-46	<0.1 <0.1	48995-14	82%							
Endosulfan II	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]							
pp-DDT	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]							
Endrin Aldehyde	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]							
Endosulfan Sulphate	mg/kg	48995-46	<0.1 <0.1	48995-14	86%							
Methoxychlor	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]							
Surrogate TCLMX	%	48995-46	113 104 RPD: 8	48995-14	116%							

		Client Referen	ce: 41131		
QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	48995-46	02/12/2010 02/12/2010	48995-14	02/12/2010
Date analysed	-	48995-46	02/12/2010 02/12/2010	48995-14	02/12/2010
Diazinon	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos-methyl	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]
Chlorpyriphos	mg/kg	48995-46	<0.1 <0.1	48995-14	123%
Fenitrothion	mg/kg	48995-46	<0.1 <0.1	48995-14	129%
Bromophos-ethyl	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	48995-46	<0.1 <0.1	48995-14	100%
Surrogate TCLMX	%	48995-46	113 104 RPD: 8	48995-14	106%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	48995-46	02/12/2010 02/12/2010	48995-14	02/12/2010
Date analysed	-	48995-46	02/12/2010 02/12/2010	48995-14	02/12/2010
Arochlor 1016	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	48995-46	<0.1 <0.1	48995-14	107%
Arochlor 1260	mg/kg	48995-46	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	48995-46	113 104 RPD: 8	48995-14	99%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	48995-46	02/12/2010 02/12/2010	48995-14	02/12/2010
Date analysed	-	48995-46	02/12/2010 02/12/2010	48995-14	02/12/2010
Arsenic	mg/kg	48995-46	10 11 RPD: 10	48995-14	97%
Cadmium	mg/kg	48995-46	<0.5 <0.5	48995-14	90%
Chromium	mg/kg	48995-46	30 31 RPD: 3	48995-14	86%
Copper	mg/kg	48995-46	12 10 RPD: 18	48995-14	103%
Lead	mg/kg	48995-46	50 43 RPD: 15	48995-14	93%
Mercury	mg/kg	48995-46	0.2 <0.1	48995-14	109%
Nickel	mg/kg	48995-46	4 4 RPD: 0	48995-14	99%
Zinc	mg/kg	48995-46	34 28 RPD: 19	48995-14	74%

Report Comments:

Sample 48995-5; Chrysotile found embedded in a fragment of fibre cement (total weight 0.012g). It is estimated that plaster or fibre cement sheet can contain up to 50% chrysotile asbestos fibres by weight. This gives up to 0.006g of chrysotile fibres, which in 33g of soil gives 0.18g/kg.

Sample 48995-12; Chrysotile found embedded in a fragment of fibre cement (total weight 0.33g). It is estimated that plaster or fibre cement sheet can contain up to 30% chrysotile asbestos fibres by weight. This gives up to 0.099g of chrysotile fibres, which in 33g of soil gives 3.0g/kg.

Sample 48995-42; Chrysotile & Amosite found embedded in several fragments of fibre cement (total weight 0.42g). It is estimated that plaster or fibre cement sheet can contain up to 15% chrysotile & amosite asbestos fibres by weight. This gives up to 0.063g of chrysotile fibres, which in 27g of soil gives 2.3g/kg.

Sample 48995-47; Chrysotile found embedded in several fragments of fibre cement (total weight 0.0081g). It is estimated that plaster or fibre cement sheet can contain up to 40% chrysotile asbestos fibres by weight. This gives up to 0.0032g of chrysotile fibres, which in 15g of soil gives 0.21g/kg.

Sample 48995-57; Chrysotile found embedded in a fragment of fibre cement (total weight 0.0338g). It is estimated that plaster or fibre cement sheet can contain up to 40% chrysotile asbestos fibres by weight. This gives up to 0.0135g of chrysotile fibres, which in 30g of soil gives 0.45g/kg.

PAH's in soil: # Percent recovery is not possible to report due to interference from analytes (other than those being tested) in the sample/s.

PAH in Soil: # Percent recovery is not possible to report due to interference from analytes (other than those being tested) in the sample/s.

Sample 48995-58; Chrysotile found embedded in a fragment of fibre cement (total weight 0.0216g). It is estimated that plaster or fibre cement sheet can contain up to 40% chrysotile asbestos fibres by weight. This gives up to 0.0086g of chrysotile fibres, which in 20g of soil gives 0.43g/kg.

Sample 48995-7, Loose Crocidolite fibres found in soil, however this is below the reporting limit of 0.1g/kg

Sample 48995-37, Loose amosite fibres found in soil, however this is below the reporting limit of 0.1g/kg

Sample 48995-41, Loose chrysotile & amosite fibres found in soil, however this is below the reporting limit of 0.1g/kg

Asbestos ID was analysed by Approved Identifier:

Asbestos ID was authorised by Approved Signatory:

Asbestos counting was analysed by Approved Counter:

Asbestos counting was authorised by Approved Signatory:

@ERROR

@ERROR

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

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selected should be one where the analyte concentration is easily measurable.

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

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.

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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:

 JBS Environmental Pty Ltd
 ph: 8338 1013

 P.O. Box 940
 Fax: 8338 1700

MASCOT NSW 1460

Attention: Sumi Dorairaj / Tim Davis

Sample log in details:

Your reference: 41131 Envirolab Reference: 48995

Date received: 26/11/10, 30/11/10

Date results expected to be reported: 7/12/10

Samples received in appropriate condition for analysis: YES

No. of samples provided 66 Soils, 2 Waters, 1 Material

Turnaround time requested:

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

 $email: a hie @\,envirolabservices.com. au\,or\,j hurst @\,e$



	PROJECT NO.: 4-1131 PROJECT NAME ENERGY NORTH RENEWAL								L'ABORATORY BATCH NO.									n a et enne a kirk	68-14. 5. va			
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5	TP41 - 0.1-0.2				TWO-JVV-IS M. Vindiga is a standard also.			X_{\perp}							V	13	,	Ph:	910 620	, Envirolar	Envirols 1: Chatswood Ph:	2 Ashlej 1 NSW 2
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L	Container & Preservative Codes: P = Fla	stic; J = Soil Jar;	: B = Glass Bottle	; N = Nitric A	Acid Prsvd.; C = Sodium Hydroxide Prsyd; VC	= Hydrochlo	ric Acid P	rsva Vial	VS =	Sulfuric Ac	id Pravd \	/lal; S ≈ Si	Illune A	old Prsvd: Z	= Zinc Pr	avd: E	m EDTA	Prsvd:	ST = Sterile	Bottle: O v Other		

JB5 Environmental Pty Ltd ABN 67 071 842 538 Phone: (02) 8338-1011 Fax: (02) 8338-1700 IMSO Forms013 - Chain of Custody

Suite 2, 595 Gardeners Road MASCOT NSW 2020 PO Box 940 MASCOT NSW 1460 www.jbsgroup.com.au



	PROJECT NO.: 나시ろ	LABORATORY BATCH NO.										
	PROJECT NAME RIVERWOOD NORTH RENEWAL	SAMPLERS TOAMS										
	SEND REPORT TO:T. DANS / S. DORARAT SEND INVOICE TO: A. WORTH	PHONE: 02 83381011 EMAIL: Edaus Was propicon, av										
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	SAMPLE ID MATRIX DATE TIME TYPE & PRESERVATIVE PH	C 9 9 I										
	TP52 - 0.1-0.2 SOIL 25/11/10 - BAG + JAR+ICE	X										
20	TP52 - 0.7 - 0.8 -											
21	TP53 - 0.1 - 0.2 -	imes										
77	TP54 - 0.1 - 0.2	imes										
13	tp55 - 0.1-0.2 -											
L¥	TP56-01-02 V -	imes										
	TP57 - 0.1-0.2 26/1/10 -	imes										
26	TP58 - 0.1-0.2											
וע	TP59 - 0.1-0.2 -	imes										
28	TP59 - 0.6-0.7 -											
29	TP60 - 0.1-0.2 -	imes										
30	TP61 - 0.1-0.2 -											
31	TP62 - 0.1-0.2 -	\times										
54	TP62 - 0.55-0.65											
33		\times										
4		imes										
35	TPG5 - 0.1-0.2 // -											
36	TP66 - C.1-0.3											
	RELINOUISHED BY: METHOD OF SHIPMENT:	RECEIVED BY: FOR RECEIVING LAB USE ONLY:										
		NAME: Z - L DATE: COOLER SEAL - Yes No Intact Broken										
	OF: JBS P. 26/11/10 TRANSPORT CO. CC 26/11/10 NAME: DATE: CONSIGNMENT NOTE NO.	OF: ELS SOMITION COOLER.TEMPdeg C. NAME: DATE: COOLER.TEMPdeg C. Intact										
	OF: TRANSPORT CO	OF: COOLER TEMP deg C										
	Container & Preservative Codes: P = Plastic;) = Soil Jar; D = Glass Bottle; H = Nitric Acid Pravid.; C = Sodium Hydroxide Pravid; VC = Hydroxide	c Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other										



	PROJECT NO.: 44131		LABORATORY BATCH NO.																		
	PROJECT NAME RIVERW		SAN	MPL	PLERS T. DAVS										100 00 (00 000)	eren van der der elektrik in gerekte die die bestellte en de Degenie persekt (de 1965) de geb					
	SEND REPORT TO: TOAN							PHO	ONE	: O	783	3812	770			E	IAM	L:-E	كسد	القدار	Masgroup, com. car
	DATE NEEDED BY: STAN							QC	LE	VEL:			VEPM	1999 (1	V)			5	doi	صرد	w.ms. grapeakal
i	COMMENTS / SPECIAL HANDLI	NG /	STORAG	E OR DISP	SAL:			8	5			Ì								T	7
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		35	5	y 8	1	1	1 1							}							
		secstos	2	3	O																
	SAMPLE ID	MA	TRIX	DATE	TIME	TYPE & PRESERVATIVE	рH	ď	1	3 3	耳			İ				- 1			NOTES
37	TP67 - 0.1-0.2	26	Shilo	es/	-	BACE + JAR HICE		X												†	
	1768 - 0.2-0.3		Ï		_			$\overline{\mathbf{X}}$													
		-[1		- 								 						-		
591	- TD68 - 0.6-0.7								k-	/ -	<u> </u>		<u> </u>								
40	TP69 - 0.1-0.2		- 				_		X	\		_									<u> </u>
41	TP-00 - 0.1-0.2	<u></u>						X	<u> </u>						<u> </u>						
42	TP71 - 0.1-0.2				-			$ \times $		Ì											
43	TP72 - 0.1-0.2	-]]	-				X										~		
44	TP72 - 0.6-0.7										X	_							-		
کد	1073 - 0.1-0.2							X	╁┈					_						 	
45	TP74 - 01-0.2		-						$\overline{\mathbf{x}}$	オ┈					- -				-	 	
ري	TP75 - 0.1-0.2					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	∇	<u> </u>]										-	
47 48	TP76 - 0.1-0.2		1/				-	Ż	┤	1									-		
49	7077 - 0.1-0.2	7~	Vulvo.			paylis designed and the complete being deployed to the second of the sec			\mathbf{x}	- 			1		-				-		
49	TP78 - 0.1-0.2		111111					∇	\ <u></u>			_	·						-		
57	TP79 - 0.1-0.2				-			\Box	} -	-					- -				-	-	
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55	TP19 - 0.5-0.6		-				_		_						·			_ _			
>3	T080 - 0.1-0.2	_		ļ	_			ll		-			_ _								
54			\geq	┖																	
	RELINQUISHED E			<u> </u>			RECEI	VED B		-	### (Fig. 1)	清冰等	於對係	,, FO	R.RECE	IVING LAB USE ONLY:					
			DATE:	I		T NOTE NO.			1	AME:	Z-(DATE 201	:: \/\C	5 66.	100.00	200	70.00	the second	Tritact Broken
	OF: ゴなら NAME:		DATE:	CONS	SPORT C	o. CC			OF NA	F: AME:	E			DAT		1 7	OOLE	TEMP	e de la composição de l	eg C	Intact Broken
	OE.								OI					P(1)							
	OF: TRANSPORT CO Container & Preservative Codes: P = Plastic; J = Soil Jar; & = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydroc										5 = Sulfurk	c Acid Prsv	d Vial; S	= Sulfuric /	cid Pravd;	Z = Zinc	Prsvd;	E = EDI	A Prsvc	eg C≬ 1; ST = S	iterile Bottie; O = Other



į	PROJECT NO.: 41131						LAE	30R/	TOR	Y BA	TCH:N	O		多名类	影響	· 带着	(東京流	(表)的	洲產幣	di Ward	·教育學系統第二時間等19世界的自立中央。在於1
- 1	PROJECT NAME PINERW		5AI	SAMPLERS TIDAUS																	
	SEND REPORT TO:	13 / S, Do	RAREST	SEND	INVOICE TO: P.WORTH					- 85	37810			,			EMAI	L. U	Sau	उद्य	Masgroup, com. av
ļ	DATE NEEDED BY: STAN				~ ^		QC	LEV	EL:			NEPM	1999	(V)				S	<u>Aor</u>	ara	Busgap-come
	COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL: SAMPLE ID MATRIX D.A.T.E. TIME TYPE & PRESERVATIVE DH. COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:									HOLD	200										
. [SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pН	Œ	J	CONTRO!												NOTES
55	TP82 - 0.1-0.2	SOIL	30/11/10	_	BACT THE TOPE		X				offen I ame administra										
56 57	TP82 - 0.5-0.6			•						X_{\perp}		_									
57	TP83 - 0.1-0.2	<u> </u>					\geq														
58	TP84 -0.1-0.2			_				\times													***************************************
591	TP85 - 0.1-0.2						X														
60	TP86-0.1-0.2			_			X														
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62	TP87-01-02		V				X			-											
63	QC3	<u> </u>	126/11/10					\times											_		
1	QC3A		<u> </u>				P	بعو	e	لع≳	٠ لم	45	SO	د ک	+ 5	λ¢ι	4606	3 2>	(B₽	(
64	QCY	<u> </u>	30/11/0		### Palakanana ang ang ang ang ang ang ang ang an				<u> </u>	\bowtie	_	_		_						<u> </u>	
	QCUA						P	200	e	جمح	~• -	₩	50	75	+ 1	אלו	KPO	<i>30</i>	B	PG	
65	QC 5	<u> </u>					_	X													
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66	TRIP BLANK	WATER			105			ļ		2	 										
67	TRIP SPIKE	<u> </u>	V		<u> </u>			ļ		.	<u> </u>				_	_	-	_	_		
1.2	TOUR	AA a back	25/11/10							_ -		-			-		_ -				
68	TP40	V 12(10) 0	<u>465/11/10</u>	<u> </u>	METHOD OF SHIPMENT:		L	ļ <u> </u>			DECE	IVED E	1		ļ	50.77	a idhaada W	Versolvered IV	i cero	 	
69	NAME: TIM DELLA	DATE:	CONSI	GNMEN	NOTE NO.			NAI	ME:	٦.		TACAS	D	ATE:		(C					IVING LAB USE ONLY:
	OF: ぴら ゝ	301//1	O TRANS	PORT C	0. Clc	us.		QF:		Ē				0/11	/10		OOLER				
	NAME:	DATE:	CONSI	GNMEN'	l NOTE NO.			NAI	ME:	_			E	ATE:		, C	OOLER	SEAL	– Yes.	No	Intact Broken
	OF:	##! 1 P. # *		PORT C				OF:		=	- 4 - 1 - T					c	DOLER	TEMP	21.2 d	eg C	
. 1	Container & Preservative Codes: P = P	idatic; J = Soll 38	ar; p = Glass Bottle	; (I ≭ Nitri	: Acid <u>Prsvd.; C = Sodlum Hydroxide Prsvd;</u> VC	≈ нуагоспіві	ric Acid	tisva (781; VS	= Sulfu	nc Acid Pr	sva Vial;	s # Sulfu	nc Acid	Prsvd; Z	≥ Zinc	Pravd;	E = ED	TA PISV	1; ST = S	terlle Battle; O = Other

JBS Environmental Pty Ltd ABN 67 671 842 638 Phone: (02) 8338-1011 Fax: (02) 8338-1700 IMSO FormsO13 – Chain of Custudy

Suite 2, 595 Gardeners Road MASCOT NSW 2020 PO Box 940 MASCOT NSW 1460 www.ibsgroup.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 48761

Client:

JBS Environmental Pty Ltd P.O. Box 940 MASCOT NSW 1460

Attention: Sumi Dorairaj / Tim Davis

Sample log in details:

Your Reference: 41131

50 Soils, 1 Water No. of samples:

Date samples received: 25/11/10 Date completed instructions received: 25/11/10

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:

2/12/10 Date results requested by: Date of Preliminary Report: Not Issued Issue Date: 2/12/10

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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:

Assistant Lab Manager

Reporting Supervisor

Nancy Zhang

Chemist

Matt Mansfield Approved Signatory

Jacinta/Hurst Laboratory Manager

Envirolab Reference: 48761 **Revision No:** R 00

TECHNICAL

Page 1 of 22

vTRH & BTEX in Soil						
Our Reference:	UNITS	48761-2	48761-10	48761-14	48761-18	48761-22
Your Reference		TP2	TP8	TP11	TP14	TP17
Depth		0.3-0.4	0.3-0.4	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	01/12/2010	01/12/2010	01/12/2010	01/12/2010	01/12/2010
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	%	96	93	98	97	99

vTRH & BTEX in Soil						
Our Reference:	UNITS	48761-24	48761-27	48761-36	48761-37	48761-43
Your Reference		TP18	TP21	TP28	TP28	TP33
Depth		0.7-0.8	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	01/12/2010	01/12/2010	01/12/2010	01/12/2010	01/12/2010
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	%	99	94	96	94	100

vTRH & BTEX in Soil			
Our Reference:	UNITS	48761-48	48761-49
Your Reference		QC1	QC2
Depth		-	-
Date Sampled		23/11/2010	23/11/2010
Type of sample		Soil	Soil
Date extracted	-	26/11/2010	26/11/2010
Date analysed	-	01/12/2010	01/12/2010
vTRH C6 - C9	mg/kg	<25	<25
Benzene	mg/kg	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	93	85

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	48761-2	48761-10	48761-14	48761-18	48761-22
Your Reference		TP2	TP8	TP11	TP14	TP17
Depth		0.3-0.4	0.3-0.4	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	99	100	98	100	98

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	48761-24	48761-27	48761-36	48761-37	48761-43
Your Reference		TP18	TP21	TP28	TP28	TP33
Depth		0.7-0.8	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	101	99	98	100	101

sTRH in Soil (C10-C36)			
Our Reference:	UNITS	48761-48	48761-49
Your Reference		QC1	QC2
Depth		-	-
Date Sampled		23/11/2010	23/11/2010
Type of sample		Soil	Soil
Date extracted	-	26/11/2010	26/11/2010
Date analysed	-	26/11/2010	26/11/2010
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100
TRH C29 - C36	mg/kg	<100	<100
Surrogate o-Terphenyl	%	101	97

PAHs in Soil						
Our Reference:	UNITS	48761-2	48761-10	48761-14	48761-18	48761-22
Your Reference		TP2	TP8	TP11	TP14	TP17
Depth		0.3-0.4	0.3-0.4	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010	27/11/2010	27/11/2010
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	0.3	<0.1	0.9	0.8	2.0
Anthracene	mg/kg	<0.1	<0.1	0.2	0.1	0.2
Fluoranthene	mg/kg	0.4	<0.1	1.1	1.6	3.7
Pyrene	mg/kg	0.4	<0.1	1.0	1.6	3.5
Benzo(a)anthracene	mg/kg	0.1	<0.1	0.3	0.4	0.9
Chrysene	mg/kg	0.2	<0.1	0.4	0.6	1.2
Benzo(b+k)fluoranthene	mg/kg	0.2	<0.2	0.5	1.0	2.2
Benzo(a)pyrene	mg/kg	0.2	<0.05	0.3	0.8	1.6
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	0.1	0.3	0.7
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	0.4	0.7
Surrogate p-Terphenyl-d ₁₄	%	108	107	109	104	109

PAHs in Soil						
Our Reference:	UNITS	48761-24	48761-27	48761-36	48761-37	48761-43
Your Reference		TP18	TP21	TP28	TP28	TP33
Depth		0.7-0.8	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010	27/11/2010	27/11/2010
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	0.5	<0.1	<0.1	0.6
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.9	<0.1	<0.1	1.1
Pyrene	mg/kg	<0.1	0.9	<0.1	<0.1	1.1
Benzo(a)anthracene	mg/kg	<0.1	0.2	<0.1	<0.1	0.3
Chrysene	mg/kg	<0.1	0.3	<0.1	<0.1	0.4
Benzo(b+k)fluoranthene	mg/kg	<0.2	0.5	<0.2	<0.2	0.7
Benzo(a)pyrene	mg/kg	<0.05	0.3	<0.05	<0.05	0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.1	<0.1	<0.1	0.2
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	0.2	<0.1	<0.1	0.3
Surrogate p-Terphenyl-d ₁₄	%	110	112	105	104	104

PAHs in Soil			
Our Reference:	UNITS	48761-48	48761-49
Your Reference		QC1	QC2
Depth		-	-
Date Sampled		23/11/2010	23/11/2010
Type of sample		Soil	Soil
Date extracted	-	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	0.5	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	0.9	<0.1
Pyrene	mg/kg	0.9	<0.1
Benzo(a)anthracene	mg/kg	0.2	<0.1
Chrysene	mg/kg	0.3	<0.1
Benzo(b+k)fluoranthene	mg/kg	0.6	<0.2
Benzo(a)pyrene	mg/kg	0.5	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2	<0.1
Surrogate p-Terphenyl-d ₁₄	%	106	107

Organochlorine Pesticides in soil						
Our Reference:	UNITS	48761-2	48761-10	48761-14	48761-18	48761-22
Your Reference		TP2	TP8	TP11	TP14	TP17
Depth		0.3-0.4	0.3-0.4	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010	27/11/2010	27/11/2010
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	%	95	97	95	92	94

Organochlorine Pesticides in soil				
Our Reference:	UNITS	48761-27	48761-36	48761-43
Your Reference		TP21	TP28	TP33
Depth		0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010
НСВ	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	%	91	103	102

Organophosphorus Pesticides						
Our Reference:	UNITS	48761-2	48761-10	48761-14	48761-18	48761-22
Your Reference		TP2	TP8	TP11	TP14	TP17
Depth		0.3-0.4	0.3-0.4	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010	27/11/2010	27/11/2010
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
Chlorpyriphos-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
Chlorpyriphos	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	%	95	97	95	92	94

Organophosphorus Pesticides				
Our Reference:	UNITS	48761-27	48761-36	48761-43
Your Reference		TP21	TP28	TP33
Depth		0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010
Diazinon	mg/kg	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1
Chlorpyriphos	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	%	91	103	102

PCBs in Soil						
Our Reference:	UNITS	48761-2	48761-10	48761-14	48761-18	48761-22
Your Reference		TP2	TP8	TP11	TP14	TP17
Depth		0.3-0.4	0.3-0.4	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010	27/11/2010	27/11/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	95	97	95	92	94

PCBs in Soil				
Our Reference:	UNITS	48761-27	48761-36	48761-43
Your Reference		TP21	TP28	TP33
Depth		0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1
Surrogate TCLMX	%	91	103	102

Acid Extractable metals in soil						
Our Reference:	UNITS	48761-2	48761-10	48761-14	48761-18	48761-22
Your Reference		TP2	TP8	TP11	TP14	TP17
Depth		0.3-0.4	0.3-0.4	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Arsenic	mg/kg	10	15	8	8	9
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	29	35	32	20	25
Copper	mg/kg	24	11	7	20	19
Lead	mg/kg	43	39	35	61	65
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	3	12	8	5
Zinc	mg/kg	45	30	24	68	57

Acid Extractable metals in soil						
Our Reference:	UNITS	48761-24	48761-27	48761-36	48761-37	48761-43
Your Reference		TP18	TP21	TP28	TP28	TP33
Depth		0.7-0.8	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Arsenic	mg/kg	12	10	10	13	5
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	42	27	30	38	14
Copper	mg/kg	4	25	8	4	16
Lead	mg/kg	20	180	42	25	27
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	9	3	3	10
Zinc	mg/kg	5	120	23	5	41

Acid Extractable metals in soil			
Our Reference:	UNITS	48761-48	48761-49
Your Reference		QC1	QC2
Depth		-	-
Date Sampled		23/11/2010	23/11/2010
Type of sample		Soil	Soil
Date digested	-	26/11/2010	26/11/2010
Date analysed	-	26/11/2010	26/11/2010
Arsenic	mg/kg	9	11
Cadmium	mg/kg	<0.5	<0.5
Chromium	mg/kg	20	33
Copper	mg/kg	11	5
Lead	mg/kg	47	35
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	4	3
Zinc	mg/kg	150	16

Moisture						
Our Reference:	UNITS	48761-2	48761-10	48761-14	48761-18	48761-22
Your Reference		TP2	TP8	TP11	TP14	TP17
Depth		0.3-0.4	0.3-0.4	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	29/11/2010	29/11/2010	29/11/2010	29/11/2010	29/11/2010
Moisture	%	23	16	28	19	17
Moieturo						

Moisture						
Our Reference:	UNITS	48761-24	48761-27	48761-36	48761-37	48761-43
Your Reference		TP18	TP21	TP28	TP28	TP33
Depth		0.7-0.8	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	29/11/2010	29/11/2010	29/11/2010	29/11/2010	29/11/2010
Moisture	%	25	19	23	24	14

Moisture			
Our Reference:	UNITS	48761-48	48761-49
Your Reference		QC1	QC2
Depth		-	-
Date Sampled		23/11/2010	23/11/2010
Type of sample		Soil	Soil
Date prepared	-	26/11/2010	26/11/2010
Date analysed	-	29/11/2010	29/11/2010
Moisture	%	17	29

Asbestos ID - soils						
Our Reference:	UNITS	48761-1	48761-2	48761-3	48761-5	48761-6
Your Reference	UNITS	TP1	46761-2 TP2	46761-3 TP3	46761-5 TP4	46761-6 TP5
		0.3-0.4		_		
Depth Parts Compled			0.3-0.4	0.2-0.3	0.3-0.4	0.2-0.3
Date Sampled Type of sample		23/11/2010 Soil	23/11/2010 Soil	23/11/2010 Soil	23/11/2010 Soil	23/11/2010 Soil
<u> </u>						
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 35g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbestos	No asbestos
		found at	found at	found at	found at	found at
		reporting limit	reporting limit	reporting limit	reporting limit	reporting limit
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg
Trace Analysis	-	Respirable fibres not	Respirable fibres not	Respirable	Respirable	Respirable fibres not
		detected	detected	fibres not detected	fibres not detected	detected
		detected	detected	detected	detected	ucicolou
Asbestos ID - soils						
Our Reference:	UNITS	48761-7	48761-8	48761-9	48761-10	48761-11
Your Reference		TP6	TP6	TP7	TP8	TP9
Depth		0.2-0.3	0.6-0.7	0.1-0.2	0.3-0.4	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbestos	No asbestos
		found at	found at	found at	found at	found at
		reporting limit	reporting limit	reporting limit	reporting limit	reporting limit
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
		fibres not	fibres not	fibres not	fibres not	fibres not
		detected	detected	detected	detected	detected
Asbestos ID - soils						
Our Reference:	UNITS	48761-12	48761-13	48761-14	48761-15	48761-16
Your Reference		TP9	TP10	TP11	TP12	TP12
Depth		0.4-0.5	0.3-0.4	0.1-0.2	0.1-0.2	0.4-0.5
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g	Approx 40g	Approx 40g	Approx 40g	Approx 40g
		Soil	Soil	Soil	Soil	Soil
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbestos	No asbestos
		found at	found at	found at	found at	found at
		reporting limit	reporting limit	reporting limit	reporting limit	reporting limit
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
		fibres not	fibres not	fibres not	fibres not	fibres not
		detected	detected	detected	detected	detected

Asbestos ID - soils						
Our Reference:	UNITS	48761-17	48761-18	48761-19	48761-21	48761-22
Your Reference	ONITS	TP13	TP14	TP15	TP16	TP17
Depth		0.2-0.3	0.1-0.2	0.3-0.4	0.1-0.2	0.1-0.2
'		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Date Sampled Type of sample		23/11/2010 Soil	23/11/2010 Soil	23/11/2010 Soil	23/11/2010 Soil	23/11/2010 Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 30g Soil
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	Chrysotile asbestos detected Amosite asbestos detected
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	48761-23	48761-24	48761-25	48761-26	48761-27
Your Reference	UNITS	TP18	TP18	48761-23 TP19	TP20	TP21
Depth		0.1-0.2	0.7-0.8	0.1-0.2	0.1-0.2	0.1-0.2
Deptiti Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
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	48761-28	48761-29	48761-30	48761-31	48761-32
Your Reference		TP21	TP22	TP23	TP24	TP25
Depth		0.7-0.8	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 39g Soil	Approx 40g Soil
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	48761-34	48761-35	48761-36	48761-37	48761-38
Your Reference		TP26	TP27	TP28	TP28	TP29
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
			30/11/2010			
Date analysed	-	30/11/2010		30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbestos	No asbestos
		found at	found at	found at	found at	found at
		reporting limit of 0.1g/kg	reporting limit of 0.1g/kg	reporting limit of 0.1g/kg	reporting limit of 0.1g/kg	reporting limit of 0.1g/kg
Troca Analysis						
Trace Analysis	-	Respirable fibres not	Respirable fibres not	Respirable fibres not	Respirable fibres not	Respirable fibres not
		detected	detected	detected	detected	detected
		40100104	40100104	40100104	40100104	40100104
Asbestos ID - soils						
Our Reference:	UNITS	48761-39	48761-40	48761-42	48761-43	48761-44
Your Reference		TP30	TP31	TP32	TP33	TP34
Depth		0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g	Approx 40g	Approx 40g	Approx 40g	Approx 40g
		Soil	Soil	Soil	Soil	Soil
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbestos	No asbestos
		found at	found at	found at	found at	found at
		reporting limit	reporting limit	reporting limit	reporting limit of 0.1g/kg	reporting limit
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg		of 0.1g/kg
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
		fibres not detected	fibres not detected	fibres not detected	fibres not detected	fibres not detected
		dottottod	dottottod	dotootod	doloolod	dotootod
Asbestos ID - soils						
Our Reference:	UNITS	48761-45	48761-46	48761-47	48761-48	48761-49
Your Reference		TP34	TP35	TP36	QC1	QC2
Depth		1.1-1.2	0.2-0.3	0.1-0.2	-	-
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g	Approx 40g	Approx 40g	Approx 40g	Approx 40g
		Soil	Soil	Soil	Soil	Soil
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbestos	No asbestos
		found at	found at	found at	found at	found at
		reporting limit	reporting limit	reporting limit	reporting limit	reporting limit
_ , , , ,		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg
Trace Analysis	-	Respirable	Respirable	Respirable	Respirable	Respirable
		fibres not detected	fibres not detected	fibres not detected	fibres not detected	fibres not detected
		uetecteu	detected	uetected	uetecteu	uetecteu

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.
GC-6	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
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.

Blank

Duplicate Sm#

Duplicate results

Spike Sm#

Spike %

METHOD

QUALITY CONTROL

UNITS

PQL

QUALITY CONTROL	UNITS	FQL	INIETHOD	DIAIIK	Duplicate Sili#	Duplicate results	Spike Sill#	Recovery
vTRH & BTEX in Soil						Base II Duplicate II %RPD		
Date extracted	-			26/11/2 010	48761-37 26/11/2010 26/11/2010		LCS-11	26/11/2010
Date analysed	-			01/12/2 010	48761-37	01/12/2010 01/12/2010	LCS-11	01/12/2010
vTRH C ₆ - C ₉	mg/kg	25	GC.16	<25	48761-37	<25 <25	LCS-11	81%
Benzene	mg/kg	0.5	GC.16	<0.5	48761-37	<0.5 <0.5	LCS-11	77%
Toluene	mg/kg	0.5	GC.16	<0.5	48761-37	<0.5 <0.5	LCS-11	79%
Ethylbenzene	mg/kg	1	GC.16	<1.0	48761-37	<1.0 <1.0	LCS-11	83%
m+p-xylene	mg/kg	2	GC.16	<2.0	48761-37	<2.0 <2.0	LCS-11	84%
o-Xylene	mg/kg	1	GC.16	<1.0	48761-37	<1.0 <1.0	LCS-11	87%
Surrogate aaa-Trifluorotoluene	%		GC.16	106	48761-37	94 97 RPD: 3	LCS-11	96%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTRH in Soil (C10-C36)						Base II Duplicate II %RPD		recovery
Date extracted	-			26/11/2 010	48761-37	26/11/2010 26/11/2010	LCS-11	26/11/2010
Date analysed	-			26/11/2 010	48761-37	26/11/2010 26/11/2010	LCS-11	26/11/2010
TRH C10 - C14	mg/kg	50	GC.3	<50	48761-37	<50 <50	LCS-11	86%
TRH C ₁₅ - C ₂₈	mg/kg	100	GC.3	<100	48761-37	<100 <100	LCS-11	91%
TRH C29 - C36	mg/kg	100	GC.3	<100	48761-37	<100 <100	LCS-11	84%
Surrogate o-Terphenyl	%		GC.3	99	48761-37	100 100 RPD: 0	LCS-11	95%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike %
PAHs in Soil						Base II Duplicate II %RPD		recovery
Date extracted	-			26/11/2 010	48761-37	26/11/2010 26/11/2010	LCS-11	26/11/2010
Date analysed	-			27/11/2 010	48761-37	27/11/2010 27/11/2010	LCS-11	27/11/2010
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1 <0.1	LCS-11	116%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1 <0.1	LCS-11	96%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1 <0.1	LCS-11	103%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	GC.12	<0.1	48761-37	<0.1 <0.1	LCS-11	101%
			subset					

		J	The Inchesion	JO. 4.	101			
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	61-37 <0.1 <0.1		[NR]
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1 <0.1	LCS-11	120%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	48761-37	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	48761-37	<0.05 <0.05	LCS-11	87%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d ₁₄	%		GC.12 subset	139	48761-37	104 74 RPD: 34	LCS-11	106%
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	-			26/11/2 010	[NT]	[NT]	LCS-6	26/11/2010
Date analysed	-			27/11/2 010	[NT]	[NT]	LCS-6	27/11/2010
НСВ	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-6	97%
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-6	91%
Heptachlor	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	89%
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-6	87%
Heptachlor Epoxide	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	93%
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-6	94%
Dieldrin	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	94%
Endrin	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	91%
pp-DDD	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	99%
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-6	88%
Methoxychlor	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		GC-5	85	[NT]	[NT]	LCS-6	86%
	1	1	1	1	· · · ·		l	

Blank

Duplicate Sm#

Duplicate results

Spike Sm#

Spike % Recovery

METHOD

QUALITY CONTROL

UNITS

PQL

Organophosphorus Pesticides						Base II Duplicate II %RPD		recovery
Date extracted	-			26/11/2 010	[NT]	[NT]	LCS-6	26/11/2010
Date analysed	-			27/11/2 010	[NT]	[NT]	LCS-6	27/11/2010
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]
Chlorpyriphos-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]
Chlorpyriphos	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	LCS-6	93%
Fenitrothion	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	LCS-6	100%
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-6	90%
Surrogate TCLMX	%		GC.8	85	[NT]	[NT]	LCS-6	87%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			26/11/2 010	[NT]	[NT]	LCS-6	26/11/2010
Date analysed	-			27/11/2 010	[NT]	[NT]	LCS-6	27/11/2010
Arochlor 1016	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221*	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	LCS-6	119%
Arochlor 1260	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		GC-6	85	[NT]	[NT]	LCS-6	104%
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	-			26/11/2 010	48761-37	26/11/2010 26/11/2010	LCS-5	26/11/2010
Date analysed	-			26/11/2 010	48761-37	26/11/2010 26/11/2010	LCS-5	26/11/2010
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4	48761-37	13 14 RPD: 7	LCS-5	109%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	48761-37	<0.5 <0.5	LCS-5	109%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1	48761-37	38 42 RPD: 10	LCS-5	111%
Copper	mg/kg	1	Metals.20 ICP-AES	<1	48761-37	4 2 RPD: 67	LCS-5	116%
						•		

 Client Reference:
 41131

 QL
 METHOD
 Blank
 Duplicate Sm#
 Duplicate results
 Spike Sm#

QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Lead	mg/kg	1	Metals.20 ICP-AES	<1	48761-37	25 26 RPD: 4	LCS-5	110%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	48761-37	<0.1 <0.1	LCS-5	101%
Nickel	mg/kg	1	Metals.20 ICP-AES	<1	48761-37	3 3 RPD: 0	LCS-5	113%
Zinc	mg/kg	1	Metals.20 ICP-AES	<1	48761-37	5 4 RPD: 22	LCS-5	109%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			26/11/2 010
Date analysed	-			29/11/2 010
Moisture	%	0.1	LAB.8	<0.10

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Asbestos ID - soils				
Date analysed	-			[NT]

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.

Sample 48761-22; Chrysotile & Amosite found embedded in a fragment of fibre cement (total weight 0.0919g). It is estimated that plaster or fibre cement sheet can contain up to 40% chrysotile & amosite asbestos fibres by weight. This gives up to 0.0368g of chrysotile fibres & amosite, which in 36g of soil gives 1.0g/kg.

Sample 48761-1 & -31, Loose chrysotile fibres found in sample however this was below the reporting limit of 0.1g/kg.

Asbestos ID was analysed by Approved Identifier: Matt Mansfield Asbestos ID was authorised by Approved Signatory: Matt Mansfield Asbestos counting was analysed by Approved Counter: @ERROR Asbestos counting was authorised by Approved Signatory: @ERROR

PQL: Practical Quantitation Limit NT: Not tested INS: Insufficient sample for this test 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.

Envirolab Reference: 48761 Revision No: R 00

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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:

 JBS Environmental Pty Ltd
 ph: 8338 1013

 P.O. Box 940
 Fax: 8338 1700

MASCOT NSW 1460

Attention: Sumi Dorairaj / Tim Davis

Sample log in details:

Your reference: 41131
Envirolab Reference: 48761
Date received: 25/11/10
Date results expected to be reported: 2/12/10

Samples received in appropriate condition for analysis: YES

No. of samples provided 50 Soils, 1 Water

Turnaround time requested:

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

4216

CHAIN OF CUSTODY - Client



ENVIROLAB SERVICES

lient: JBS Environmental				Client Project Name and Number:							Envirolab Services								
Project Mgr: Doraira 1					41131								12 Ashley St, Chatswood, NSW, 2067						
Sampler: 🧸				PO No	:														
	28 O'Riordan St		i	Enviro	lab Se	rvices (uote l	No. :						Phon	e: 02	995	8 580	1	
	Mascot					require								Fax:	02	995	8 580	3	
Email: Sd <i>ol</i>	airaj@josgroup com.a	u Adavis	@ ibsgroup.com	Ör cho	oset s	tandar	ay 1 d	lay / 2	day /	3 day				E-ma	il: tr	otar	as@eı	nviro	abservices.com.au
	•		- 4	Note: In	form lab	in advan					1-			C	acti T	rania	Nota	rac	
Phone: 83		Fax: 833		surcharg	ie applie	5 279036	植物细胞的	See stans		izonaliko	# D. W. S. S. S.	GO STO	111.00 N W						
	Sample inform	nation		為世界世紀		38,38,40	5 <i>02.</i> 22	C 10 10 19 19 1		y Jests	Requi	rea)		数据温度		Maria I			Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Asbestos	Combo 64	Combo 3a	HOL1)												Provide as much information about the sample as you can
1	TPI /0.3-0.4m	23/11/10	5	a. r. r. r.															
٦	TP2/0-3-0-4m	ı		WIK	1														Envirolab Bervices
3	TP3/0.3 -0.3m																	(th	TUIN Chalswood NSW 2067
4	TP3/1-1-1-2m																	ı `	+ PII. 9310 0200
5	TP4/03-0.4m			/															No: 48761
6	TP5/0.2-0.3m			/														Date	received: 25/11/10
7	TPG/0-2-0-3m			/										<u> </u>				Rec	aved by: JML
8	TPG/0.6-0.7m												l					Теп	e: Cool/Amblent
9	TP7/01-02m															<u> </u>		Sec	urby: Istáct/Broken/None
10	TP8/0.3-0.4m			3300												<u> </u>			
11	TP9/0-1-0-2m															<u> </u>			
12	TP9/0.4-0.5m			./											<u> </u>	<u> </u>			
13	TP10/0-3-0-4m													<u> </u>		<u> </u>	ļ		
14	TP11/01-02m			Max	✓														
15	TP12/0-1-0-2M	V	V	1	1					<u> </u>			<u> </u>						
Relinquished by (company): JBS					(comp		E						Samp	ies Re	ceived	: Cool	or Amt	ient (circle one)	
Print Name: Sumi Dargica 1											(if applicable)								
Date & Time: 25/II) 0				Date & Time: 25川ゆ						Trans	ported	l by: F	land de	elivere	d/courier				
Signature:				Signa	ture:	*	-0							<u> </u>					Page No:

Form: 302 - Chain of Custody-Client, Issued 14/02/08, Version 3, Page 1 of 1.

CHAIN OF CUSTODY - Client



ENVIROLAB SERVICES

Client:	JBS			Client	Projec	t Name			:					Envirolab Services					
Project Mgr:	Doraira 1						411	31						12 Ashley St, Chatswood, NSW, 2067					
Sampler:	Davis			PO No.	:								-					_	:
Address:				Enviro	lab Se	rvices ()uote M	lo.:									3 580		
				Date r			• \							Fax:			B 580		
Email:						tandar								E-ma	il: tn	otara	as@ei	rvirola	abservices.com.au
		Fax:		Note: In surcharg		in advan	ice if urg	ent turna	round i	s required	ď -		'	Cont	act: T	[ania	Nota	ras	
Phone:			5Q: ZP##5//45035	Solcial			17.34	U2F24		Test	Reau	ired.						100	Comments
	Sample inform	ation			CHILDREN &	KANASA VARAN SAR	A MARION OF A COMP	S DECERTION OF THE	ATES SAN TRANS	AS VIX. II		T. N. T	N. A. Harrison		TOTAL STREET, SHIPP STREET, SHIPP STREET, SHIPP STREET, SHIPP STREET, SHIPP STREET, SHIPP STREET, SHIPP STREET,	The control of the co			
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Aslgestos	Gimbo Ga	Combo 39	+10[1)												Provide as much information about the sample as you can
16	TP12/0-4-0.5m			(ļ		ļ					
17	TP13/0-2-0-3-M															ļ	<u> </u>		
18	TP14/01-02M			""	/				.,										
29	TP15/0.3-0.4m			/															
20	TP15/8-9-1.0M			<u> </u>	<u> </u>		''												
21	TP16/0-1-0-2m													 		 	ļ		
22	TP17/0-1-0-2m			744	<u> </u>							ļ		↓		ļ	ļ		
23	TP18/0-1-0-2 m			/			,						<u> </u>	ļ			 		,
24	TP18/0.7-08m				<u> </u>								ļ	—		-	↓		
25	TP19/01-0-2M					<u> </u>					ļ	-	ļ.—	 		 			
26	TP20/0.1-0.2m			1/	ļ									-	_	ļ	<u> </u>		
27	TP21/0-1-0-2m			-4hr	\ <u> </u>					ļ	 		ļ						
28	TP21/0.7-0-8M			 	<u> </u>	<u> </u>	ļ			<u> </u>			<u> </u>	-	ļ	 	-	-	
29	TP22/01-0.2M			<u> </u>	<u> </u>					<u> </u>	ļ		 	-	 	 	 	 	
30	TP23/0-1-0-2m				<u> </u>		<u> </u>				<u> </u>	<u></u>	L	╁	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
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Print Name	: Sumi Doraira 1			Print	Name	:				<u></u>				1 '			eved at		(if applicable)
	e: 25/11/10			Date & Time:						Transported by: Hand delivered / courier									
Signature:				Signa	ture:			Signature: Page No: 2 of 4						<u> </u>					Page No: - '

CHAIN OF CUSTODY - Client



ENVIROLAB SERVICES

lient:	JBS Environmen	ka)		Client	Projec	t Name	and N	lumbe	г:					Env	irola	b Se	rvice	es	
Project Mgr:										•				12 Ashley St, Chatswood, NSW, 2067					
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Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	HOLD	Asbestos	Combo 3a	Combo 64												Provide as much information about the sample as you can
31	TP24/0-1-0-21				/		<i>,</i> "												
32	TP25/6-1-8-2m				_/														
<i>32</i> 33	TP25/05-0.6m																		
34	TP26/0-1-0-2m				/														
<i>3</i> 5	TP27/0-1-0-2m			1	/														
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37	TP28/0.4-0.5m					\checkmark											<u> </u>		
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40	TP31/0-1-0-2m																		
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43	TP33/0-1-02M			<u> </u>	100		1												
44	TP34/01-02m			<u> </u>			•			.,						ļ. <u>.</u>			
45	TP34/1-1-12m			<u> </u>														:	
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	Somi Dorairs 1		·	Print	Name:									Temperature Recieved at: (if applicable)				(if applicable)	
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CHAIN OF CUSTODY - Client



ENVIROLAB SERVICES

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PICKFORD & RHYDER CONSULTING PTY LTD

- ABN 17 105 546 076

Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595 Rear - 244 Burns Bay Road Lane Cove NSW Australia

Phone: Fax: (02) 9418 9151 (02) 9418 9150

6 December 2010

S. Doraiaj & T. Davis JBS Environmental PO Box 940 MASCOT NSW 1460

Fax: 8338-1700; tdavis@jbsgroup.com.au

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No.:

41131

TYPE OF SAMPLES:

Bulk samples - as received from Envirolab Services

SITE LOCATION:

Riverwood North Renewal

DATE SAMPLED:

26 & 30 November 2010 DATE RECEIVED:

1 December 2010

OUR REFERENCE:

64830/31-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

All sampling and site work have been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sample No	Lab No	Sample Information	Analysis Result	Description
QC3A	64830	Soil sample as received, sampled 26 November 2010	no asbestos detected	The sample was a brown, clumpy soil with stones and plant matter, of approximate weight 32 g, in which organic fibres were detected. No asbestos fibres were found at the Reporting Limit of 0.1 g/kg.
QC5A	64831		amosite & chrysotile asbestos detected	The sample was a brown soil with clay clumps, fibrous fragments and stones and plant matter, of approximate weight 31g, in which organic fibres were detected. Amosite and chrysotile asbestos fibres were found above the Reporting Limit of 0.1 g/kg.

Analysed and reported by:

K. Grose, Approved Identifier and Signatory.



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Accreditation number 2515

Page 1 of 1

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CHAIN OF CUSTODY



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alner & Preservative Codes: P =	Plastic; J = Soil Jar;	B = Glass Bottle; N :	Mitric Acid P	Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Add Prayd; C = Sodium Hydroxide Prayd; V = Hydroxide Prayd; V = Hydroxide Prayd; V = Sulfuric Add Prayd; S = Sulfuric Add Prayd; E = EDTA Prayd; S = Sterile Bottle; O = Other	Hydrochloric	Acid Prsvd Vlat; VS = Sulfuric	c Add Prsvd Vial; S = Sulfuric Acid Prs	vd; Z = Zinc Prsvd	1; E = EDTA Prsvd; ST = St	erile Bottle: O = Other	S-

JBS Environmental Pty Ltd ABN 67 071 842 638 Phone: (02) 8338-1011 Fax: (02) 8338-1700 IMSO FormsO13 – Chain of Custody

Suite 2, 595 Gardeners Road MASCOT NSW 2020 PO Box 940 MASCOT NSW 1460 WWW.jbsgroup.com.au

PICKFORD & RHYDER CONSULTING PTY LTD ABN 17 105 546 076

Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595 Rear - 244 Burns Bay Road Lane Cove NSW Australia

Phone: (02) 9418 9151 Fax: (02) 9418 9150

6 December 2010

Sumi Doraiaj JBS Environmental PO Box 940 MASCOT NSW 1460

Fax: 8338-1700

CERTIFICATE OF ANALYSIS - ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No.:

41131

TYPE OF SAMPLES:

Bulk samples - as received from Envirolab Services

SITE LOCATION:

Unknown

DATE SAMPLED:

24 November 2010 DATE RECEIVED:

29 November 2010

OUR REFERENCE:

64775/76-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

All sampling and site work have been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sample No	Lab No	Sample Information	Analysis Result	Description
QC1A	64775	Soil sample as received	no asbestos detected	The sample was a brown soil with clay clumps, stones and plant matter, of approximate weight 36 g, in which organic fibres were detected. No asbestos fibres were found at the Reporting Limit of 0.1 g/kg.
QC2A	64776	Soil sample as received	no asbestos detected	The sample was a brown soil with stones and plant matter, of approximate weight 31 g, in which organic fibres were detected. No asbestos fibres were found at the Reporting Limit of 0.1 g/kg.

Analysed and reported by:

K. Grose.

Approved Identifier and Signatory.



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Accreditation number 2515

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CHAIN OF CUSTODY - Client

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Project Mgr:	Dorair					7	4-113-1	12 Ashlev St. Chatswood, NSW, 2067	
Sampler:	Davis ,			PO No.:					
Address:				Enviro	ab Ser	vices (Envirolab Services Quote No.:	Phone: 02 9958 5801	
				Date results required:	salts	equire	d;	Fax: 02 9958 5803	
Email:				Or cho	ose: st	andar	Or choose: standard / 1 day / 2 day / 3 day	E-mail: tnotaras@envirolabservices.com.au	m.au
Phone:		Fax:		Note: Inform lab I surcharge applies	orm lab e applies	n advan	Note: Inform lab in advance if urgent turnaround is required - surcharge applies	Contact: Tania Notaras	
	Sample Information	mation					Tests Required	quired	ıts
Envirolab Sample ID	Client Sample ID	Date	Type of sample	(JOH	Rebestus	Comboed	pé odmos	Provide as much information about the sample as you can	much bout the bu can
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ANALYTICAL REPORT

6 December 2010

JBS Environmental Pty Ltd

PO Box 940 MASCOT NSW 1460

Attention: Sumi Dorairaj

Your Reference: 41131

Our Reference: SE83561 Samples: 2 Soils

Received: 26/11/2010

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

Sample Receipt: Angela Mamalicos AU.SampleReceipt.Sydney@sgs.com

Production Manager: Huong Crawford Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Organics Signatory

Huong Crawford Metals Signatory



ACCREDITATION

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MBTEX in Soil			
Our Reference:	UNITS	SE83561-1	SE83561-2
Your Reference		QC1 QC1A	QC2 QC2A
Sample Matrix		Soil	Soil
Date Sampled		24/11/2010	24/11/2010
Date Extracted (MBTEX)		1/12/2010	1/12/2010
Date Analysed (MBTEX)		1/12/2010	1/12/2010
Methyl-tert-butyl ether (MtBE)	mg/kg	<0.1	<0.1
Benzene	mg/kg	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3
BTEX Surrogate (%)	%	72	80

WORLD RECOGNISED
ACCREDITATION

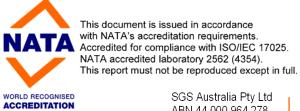
TRH in soil withC6-C9 by P/T			
Our Reference:	UNITS	SE83561-1	SE83561-2
Your Reference		QC1 QC1A	QC2 QC2A
Sample Matrix		Soil	Soil
Date Sampled		24/11/2010	24/11/2010
Date Extracted (TRH C6-C9 PT)		1/12/2010	1/12/2010
Date Analysed (TRH C6-C9 PT)		1/12/2010	1/12/2010
TRH C6 - C9 P&T	mg/kg	<20	<20
Date Extracted (TRH C10-C36)		1/12/2010	1/12/2010
Date Analysed (TRH C10-C36)		1/12/2010	1/12/2010
TRH C10 - C14	mg/kg	<20	<20
TRH C15 - C28	mg/kg	<50	<50
TRH C29 - C36	mg/kg	<50	<50

PAHs in Soil			
Our Reference:	UNITS	SE83561-1	SE83561-2
Your Reference		QC1 QC1A	QC2 QC2A
Sample Matrix		Soil	Soil
Date Sampled		24/11/2010	24/11/2010
Date Extracted		1/12/2010	1/12/2010
Date Analysed		1/12/2010	1/12/2010
Naphthalene	mg/kg	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	0.10
Anthracene	mg/kg	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	0.21
Pyrene	mg/kg	<0.10	0.18
Benzo[a]anthracene	mg/kg	<0.10	<0.10
Chrysene	mg/kg	<0.10	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.10	<0.10
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.8	<1.99
Nitrobenzene-d5	%	125	126
2-Fluorobiphenyl	%	124	120
p -Terphenyl-d14	%	128	130

Metals in Soil by ICP-OES			
Our Reference:	UNITS	SE83561-1	SE83561-2
Your Reference		QC1 QC1A	QC2 QC2A
Sample Matrix		Soil	Soil
Date Sampled		24/11/2010	24/11/2010
Date Extracted (Metals)		2/12/2010	2/12/2010
Date Analysed (Metals)		2/12/2010	2/12/2010
Arsenic	mg/kg	8	7
Cadmium	mg/kg	0.5	0.4
Chromium	mg/kg	25	13
Copper	mg/kg	6.3	12
Lead	mg/kg	35	38
Nickel	mg/kg	2.0	4.2
Zinc	mg/kg	21	45

Mercury Cold Vapor/Hg Analyser			
Our Reference:	UNITS	SE83561-1	SE83561-2
Your Reference		QC1 QC1A	QC2 QC2A
Sample Matrix		Soil	Soil
Date Sampled		24/11/2010	24/11/2010
Date Extracted (Mercury)		3/12/2010	3/12/2010
Date Analysed (Mercury)		3/12/2010	3/12/2010
Mercury	mg/kg	<0.05	<0.05

Moisture			
Our Reference:	UNITS	SE83561-1	SE83561-2
Your Reference		QC1 QC1A	QC2 QC2A
Sample Matrix		Soil	Soil
Date Sampled		24/11/2010	24/11/2010
Date Analysed (moisture)		1/12/2010	1/12/2010
Moisture	%	21	28

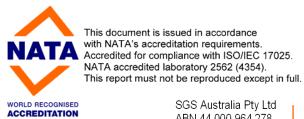


Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 \pm 5°C.



QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
MBTEX in Soil						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted (MBTEX)				01/12/1	[NT]	[NT]	LCS	01/12/10
Date Analysed (MBTEX)				01/12/1 0	[NT]	[NT]	LCS	01/12/10
Methyl-tert-butyl ether (MtBE)	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	87%
Benzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	79%
Toluene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	80%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	81%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	[NT]	[NT]	LCS	88%
BTEX Surrogate (%)	%	0	SEO-018	95	[NT]	[NT]	LCS	87%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
TRH in soil withC6-C9 by P/T						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				01/12/1	[NT]	[NT]	LCS	01/12/10
Date Analysed (TRH C6-C9 PT)				01/12/1	[NT]	[NT]	LCS	01/12/10
TRH C6 - C9 P&T	mg/kg	20	SEO-018	<20	[NT]	[NT]	LCS	103%
Date Extracted (TRH C10-C36)				01/12/1	[NT]	[NT]	LCS	01/12/10
Date Analysed (TRH C10-C36)				01/12/1	[NT]	[NT]	LCS	01/12/10
TRH C ₁₀ - C ₁₄	mg/kg	20	SEO-020	<20	[NT]	[NT]	LCS	124%
TRH C ₁₅ - C ₂₈	mg/kg	50	SEO-020	<50	[NT]	[NT]	LCS	123%
TRH C29 - C36	mg/kg	50	SEO-020	<50	[NT]	[NT]	LCS	105%



QUALITY CONTROL PAHs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				01/12/1	[NT]	[NT]	LCS	01/12/10
Date Analysed				01/12/1	[NT]	[NT]	LCS	01/12/10
Naphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	101%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	92%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	99%
Fluorene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	96%
Anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	98%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	97%
Pyrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	99%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Benzo[<i>b,k</i>]fluoranthe ne	mg/kg	0.2	SEO-030	<0.20	[NT]	[NT]	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	82%
Indeno[123-cd]pyren e	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Dibenzo[<i>ah</i>]anthrace ne	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.8	SEO-030	<1.8	[NT]	[NT]	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	127	[NT]	[NT]	LCS	129%
2-Fluorobiphenyl	%	0	SEO-030	127	[NT]	[NT]	LCS	121%
p -Terphenyl-d 14	%	0	SEO-030	115	[NT]	[NT]	LCS	116%

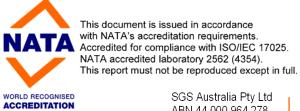


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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
Metals in Soil by ICP-OES						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted (Metals)				02/12/1	[NT]	[NT]	LCS	02/12/10
Date Analysed (Metals)				02/12/1 0	[NT]	[NT]	LCS	02/12/10
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	97%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	97%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	98%
Copper	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	98%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	96%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	96%
Zinc	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	99%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
Mercury Cold Vapor/Hg Analyser						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted (Mercury)				3/12/20 10	[NT]	[NT]	LCS	97%
Date Analysed (Mercury)				3/12/20 10	[NT]	[NT]	LCS	3/12/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	104%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Moisture				
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1



Result Codes

[INS] Insufficient Sample for this test [RPD] : Relative Percentage Difference [NR] Not Requested : Not part of NATA Accreditation

[NT] Not tested [N/A] : Not Applicable

[LOR] : Limit of reporting

Report Comments

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*) This document is issued by the Company subject to its General Conditions of Service (www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein.

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

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

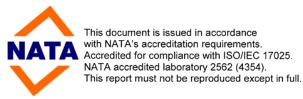
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

ACCREDITATION

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-ga-qc-plan-en-09.pdf





30 November 2010

Client Details Laboratory Details

Sumi Dorairaj Requested By

JBS Environmental Pty Ltd SGS Environmental Services Client Laboratory

Edward Ibrahim Contact Sumi Dorairaj Manager Address

Unit 16, 33 Maddox Street Address PO Box 940 MASCOT NSW 1460

Alexandria NSW 2015

Email sdorairaj@jbsgroup.com.au Email au.samplereceipt.sydney@sgs.com

Telephone 02 8338 1013 Telephone 61 2 8594 0400 Facsimile 02 8338 1700 Facsimile 61 2 8594 0499

Project 41131 SE83561 Report No

Order Number No. of Samples

3/12/2010 Samples 2 Soils Due Date

Date Instructions Received 29/11/2010 Sample Receipt Date 26/11/2010

Samples received in good order YES Samples received in correct container: YFS Samples received without headspace YES Sufficient quantity supplied YFS Upon receipt sample temperature : Cooling Method Ice Pack Cool Samples clearly Labelled Sample containers provided by YFS Other Lab Turnaround time requested Standard Completed documentation received: YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

Comments

Instructions received 29/11/2010@5.09PM.

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liablility and to the clauses of indemnification.

The signed chain of custody will be returned to you with the original report.



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : JBS Environmental Pty Ltd Report No : SE83561

Project : 41131

Summary of Samples and Requested Analysis

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing. Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep, soil 8 HM	MBTEX in Soil	TRH in soil withC6-C9 by P/T	PAHs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Moisture
1	QC1 QC1A	Х	Х	Х	Х	Х	Х	Х
2	QC2 QC2A	Х	Х	Х	Х	Х	Х	Х

Sample No.	Description
1	QC1 QC1A
2	QC2 QC2A

CHAIN OF CUSTODY - Client

Date results required: Prone: 02.99		Note: Inform lab in advance if urgent turnaround is required -		Sample Information Tests Required	1	Client Sample ID Sampled Type of sample ID Sample ID Ashes Sam	Client Sample ID Sampled Type of sample Type of sample Type of sample Type of sample Type of sample Type of sample Type of sample Type of sample Type of sample Type of sample Type of sample Type of sample Type of sample Type of sample	Client Sample ID Date Sampled Type of sample D 50 60 17935/0-2-0-3-17935/1-1-3-17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Client Sample ID Sampled Type of sample D 50 60 17935/0.2-0.3 1 24/11/16 5 7 A 56 56 17935/0.2-0.2 17935/0.1-0.0 17935/0.1-0.2 17935/0.1-0.2 17935/0.1-0.2 17935/0.1-0.2 17935/0.0 17935/0.0 17935/0.1-0.0 17935/0.0 17935/0.0 17935/0.0 17935/0	Client Sample ID Sampled Type of sample D So So So So So So So So So So So So So	Date sampled Type of sample HOLD Asbestos Combo 60
Fax: 02 9958 5803	E-mail: tnotaras@envirolabservices		Contact: Tania Notaras								
	ote No. : Fax:	and the second	f incent timesound is required.	Date results required: Or choose: standard / 1 day / 2 day / 3 day Note: Inform lab in advance if urgent turnaround is required - surcharge applies	Date results required: Or choose: standard / 1 day / 2 day / 3 day Note: Inform lab in advance if urgent turnaround is required - surcharge applies Tests Required	Client Sample ID Date Type of sample Type of samp	Client Sample ID Date Type of sample Type of samp	Prioric 12 9938 5801 Prioric 12 9938 5801 Prioric 12 9938 5801 Prioric 12 9938 5803 Prioric 12 9938 5803 Prioric 12 9938 5803 Prioric 12 9938 5803 Prioric 12 9938 5803 Prioric 13 9938 5	Date Sample ID Date Sample Type of sample Fax; 1795/0-1-0-3m 1-1795/1-1-3m TP35/1-0-1-0-3m TP35/1-0-1-0-2m TP35/1-0-1-0-0-2m TP35/1-0-1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	Date results required: Profice: 02 9958 5801	Prince: U2 9958 5801 Prince: U2 9958 5803

Form: 302 - Chain of Custody-Client, Issued 14/02/08, Version 3, Page 1 of 1.

Print Name: JRS

Date & Time: 25/11/10

Date & Time: 26/www @ 31308h

Signature:

Print Name: Korlo

Received by (company): SC-S

Samples Received: Cool or Ambient (circle one)

Temperature Recieved at: 5°C (if applicable)

Transported by: Hand delivered / courier

Page No:

Signature:

Relinquished by (company): Sumi Docarra

5 0

Hank

IMP Spike

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Samples from YES

Davis

264440

please send to SGS

please send to SUSEpicka

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の七日本

Se8356 5589 49

Q4 1-0x2 #

QC2A

AU.SampleReceipt.Sydney (Sydney)

From: Sumi Dorairaj [SDorairaj@jbsgroup.com.au]

Sent: Monday, 29 November 2010 5:09 PM

To: AU.SampleReceipt.Sydney (Sydney)

Cc: Tim Davis

Subject: RE: 41131 - Combo 3a - Specify testing parameters, SE83561

Hi Angela,

Thanks for the reminder – we are after TPH, BTEX, PAH, 8 HM (As, Cd, Cr, Cu, Pb, Ni, Hg, Zn) for these samples.

Regards, Sumi Dorairaj Senior Environmental Consultant JBS Environmental Pty Ltd (ph) 02 8338 1011 (m) 0427 782 127

From: AU.SampleReceipt.Sydney (Sydney) [mailto:AU.SampleReceipt.Sydney@sgs.com]

Sent: Monday, 29 November 2010 5:03 PM

To: Sumi Dorairaj Cc: Tim Davis

Subject: FW: 41131 - Combo 3a - Specify testing parameters, SE83561

Hi Sumi / Tim,

Unfortunately analysis progression has been halted for this job. We are currently awaiting specifications to "Combo 3a". Please advise as soon as possible testing parameters associated to this package type. Thank you

Kind Regards

Angela Mamalicos Environmental Services Sample Administration Manager

Phone: +61 (0)2 8594 0400

From: AU.SampleReceipt.Sydney (Sydney) Sent: Friday, 26 November 2010 4:42 PM

To: 'sdorairaj@jbsgroup.com.au'
Cc: 'tdavis@jbsgroup.com.au'

Subject: 41131 - Combo 3a - Specify testing parameters, SE83561

Hi Sumi / Tim,

Regarding samples delivered at SGS today, forwarded by Envirolabs, SGS will require the testing scheme associated to Combo 3a.

Unfortunately SGS does not have a package called Combo 3a.

At present job has been halted awaiting feedback.

Kind Regards



ANALYTICAL REPORT

8 December 2010

JBS Environmental Pty Ltd

PO Box 940 MASCOT NSW 1460

Attention: Tim Davis

Your Reference: 41131 - Riverwood North Renewal

Our Reference: SE83681 Samples: 3 Soils

Received: 1/12/2010

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

Sample Receipt: Angela Mamalicos AU.SampleReceipt.Sydney@sgs.com

Production Manager: Huong Crawford Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Organics Signatory

Huong **Erawford**Metals Signatory



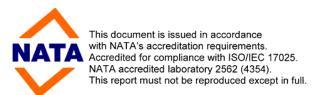
ACCREDITATION

UNITS	SE83681-1	SE83681-3
	QC3A	QC5A
	Soil	Soil
	26/11/2010	30/11/2010
	6/12/2010	6/12/2010
	6/12/2010	6/12/2010
mg/kg	<0.1	<0.1
mg/kg	<0.1	<0.1
mg/kg	<0.1	<0.1
mg/kg	<0.1	<0.1
mg/kg	<0.3	<0.3
%	102	99
	mg/kg mg/kg mg/kg mg/kg mg/kg	

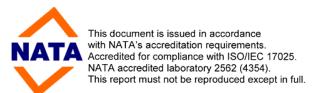
WORLD RECOGNISED
ACCREDITATION

TRH in soil with C6-C9 by P/T			
Our Reference:	UNITS	SE83681-1	SE83681-3
Your Reference		QC3A	QC5A
Sample Matrix		Soil	Soil
Date Sampled		26/11/2010	30/11/2010
Date Extracted (TRH C6-C9 PT)		6/12/2010	6/12/2010
Date Analysed (TRH C6-C9 PT)		6/12/2010	6/12/2010
TRH C6 - C9 P&T	mg/kg	<20	<20
Date Extracted (TRH C10-C36)		6/12/2010	6/12/2010
Date Analysed (TRH C10-C36)		6/12/2010	6/12/2010
TRH C10 - C14	mg/kg	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50
TRH C29 - C36	mg/kg	<50	<50

PAHs in Soil			
Our Reference:	UNITS	SE83681-1	SE83681-3
Your Reference		QC3A	QC5A
Sample Matrix		Soil	Soil
Date Sampled		26/11/2010	30/11/2010
Date Extracted		6/12/2010	6/12/2010
Date Analysed		6/12/2010	6/12/2010
Naphthalene	mg/kg	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10
Phenanthrene	mg/kg	0.47	<0.10
Anthracene	mg/kg	<0.10	<0.10
Fluoranthene	mg/kg	0.97	0.18
Pyrene	mg/kg	0.96	0.17
Benzo[a]anthracene	mg/kg	0.29	<0.10
Chrysene	mg/kg	0.30	<0.10
Benzo[b,k]fluoranthene	mg/kg	0.62	<0.20
Benzo[a]pyrene	mg/kg	0.42	<0.10
Indeno[123-cd]pyrene	mg/kg	0.40	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10
Benzo[<i>ghi</i>]perylene	mg/kg	0.40	<0.10
Total PAHs (sum)	mg/kg	<5.63	<1.95
Nitrobenzene-d5	%	116	112
2-Fluorobiphenyl	%	100	96
p -Terphenyl-d14	%	102	94



OC Pesticides in Soil			
Our Reference:	UNITS	SE83681-1	SE83681-3
Your Reference		QC3A	QC5A
Sample Matrix		Soil	Soil
Date Sampled		26/11/2010	30/11/2010
Date Extracted		3/12/2010	3/12/2010
Date Analysed		3/12/2010	3/12/2010
HCB	mg/kg	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1
o,p-DDE	mg/kg	<0.1	<0.1
alpha-Endosulfan	mg/kg	<0.1	<0.1
trans-Chlordane (gamma)	mg/kg	<0.1	<0.1
cis-Chlordane (alpha)	mg/kg	<0.1	<0.1
trans-Nonachlor	mg/kg	<0.1	<0.1
p,p-DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
o,p-DDD	mg/kg	<0.1	<0.1
o,p-DDT	mg/kg	<0.1	<0.1
beta-Endosulfan	mg/kg	<0.1	<0.1
p,p-DDD	mg/kg	<0.1	<0.1
p,p-DDT	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (Surrogate	%	124	125



OP Pesticides in Soil by GCMS			
Our Reference:	UNITS	SE83681-1	SE83681-3
Your Reference		QC3A	QC5A
Sample Matrix		Soil	Soil
Date Sampled		26/11/2010	30/11/2010
Date Extracted		6/12/2010	6/12/2010
Date Analysed		6/12/2010	6/12/2010
Dichlorvos	mg/kg	<1	<1
Dimethoate	mg/kg	<1	<1
Diazinon	mg/kg	<0.5	<0.5
Fenitrothion	mg/kg	<0.2	<0.2
Malathion	mg/kg	<0.20	<0.20
Chlorpyrifos-ethyl	mg/kg	<0.2	<0.2
Parathion-ethyl	mg/kg	<0.2	<0.2
Bromofos-ethyl	mg/kg	<0.2	<0.2
Methidathion	mg/kg	<0.5	<0.5
Ethion	mg/kg	<0.2	<0.2
Azinphos-methyl	mg/kg	<0.20	<0.20
2-fluorobiphenyl (Surr)	%	100	96
d14-p-Terphenyl (Surr)	%	102	94

PCBs in Soil			
Our Reference:	UNITS	SE83681-1	SE83681-3
Your Reference		QC3A	QC5A
Sample Matrix		Soil	Soil
Date Sampled		26/11/2010	30/11/2010
Date Extracted		3/12/2010	3/12/2010
Date Analysed		3/12/2010	3/12/2010
Arochlor 1016	mg/kg	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90
PCB_Surrogate 1	%	124	125

Metals in Soil by ICP-OES			
Our Reference:	UNITS	SE83681-1	SE83681-3
Your Reference		QC3A	QC5A
Sample Matrix		Soil	Soil
Date Sampled		26/11/2010	30/11/2010
Date Extracted (Metals)		6/12/2010	6/12/2010
Date Analysed (Metals)		6/12/2010	6/12/2010
Arsenic	mg/kg	7	11
Cadmium	mg/kg	0.5	0.8
Chromium	mg/kg	21	30
Copper	mg/kg	17	18
Lead	mg/kg	72	90
Nickel	mg/kg	4.2	4.5
Zinc	mg/kg	78	85

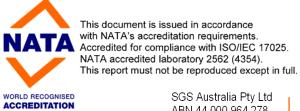
Mercury Cold Vapor/Hg Analyser			
Our Reference:	UNITS	SE83681-1	SE83681-3
Your Reference		QC3A	QC5A
Sample Matrix		Soil	Soil
Date Sampled		26/11/2010	30/11/2010
Date Extracted (Mercury)		6/12/2010	6/12/2010
Date Analysed (Mercury)		6/12/2010	6/12/2010
Mercury	mg/kg	0.07	0.07

Moisture			
Our Reference:	UNITS	SE83681-1	SE83681-3
Your Reference		QC3A	QC5A
Sample Matrix		Soil	Soil
Date Sampled		26/11/2010	30/11/2010
Date Analysed (moisture)		6/12/2010	6/12/2010
Moisture	%	16	21

BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge
and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates, and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD/FID technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 \pm 5°C.

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
MBTEX in Soil						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted (MBTEX)				06/12/1	[NT]	[NT]	LCS	06/12/10
Date Analysed (MBTEX)				06/12/1 0	[NT]	[NT]	LCS	06/12/10
Methyl-tert-butyl ether (MtBE)	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	106%
Benzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	97%
Toluene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	98%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	100%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	[NT]	[NT]	LCS	103%
BTEX Surrogate (%)	%	0	SEO-018	106	[NT]	[NT]	LCS	96%

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				06/12/1	SE83681-1	6/12/2010 6/12/2010	LCS	06/12/10
Date Analysed (TRH C6-C9 PT)				06/12/1 0	SE83681-1	6/12/2010 6/12/2010	LCS	06/12/10
TRH C6 - C9 P&T	mg/kg	20	SEO-018	<20	SE83681-1	<20 [N/T]	LCS	102%
Date Extracted (TRH C10-C36)				06/12/1 0	SE83681-1	6/12/2010 6/12/2010	LCS	06/12/10
Date Analysed (TRH C10-C36)				06/12/1 0	SE83681-1	6/12/2010 6/12/2010	LCS	06/12/10
TRH C ₁₀ - C ₁₄	mg/kg	20	SEO-020	<20	SE83681-1	<20 <20	LCS	113%
TRH C ₁₅ - C ₂₈	mg/kg	50	SEO-020	<50	SE83681-1	<50 <50	LCS	116%
TRH C29 - C36	mg/kg	50	SEO-020	<50	SE83681-1	<50 <50	LCS	106%

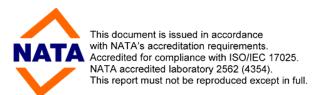


QUALITY CONTROL PAHs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				06/12/1	SE83681-1	6/12/2010 6/12/2010	LCS	06/12/10
Date Analysed				06/12/1 0	SE83681-1	6/12/2010 6/12/2010	LCS	06/12/10
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10 <0.10	LCS	93%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10 <0.10	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10 <0.10	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10 <0.10	LCS	100%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10 <0.10	LCS	112%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10 <0.10	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.47 0.38 RPD: 21	LCS	102%
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10 <0.10	LCS	128%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.97 0.83 RPD: 16	LCS	113%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.96 0.83 RPD: 15	LCS	118%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.29 0.25 RPD: 15	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.30 0.26 RPD: 14	[NR]	[NR]
Benzo[<i>b,k</i>]fluoranthe ne	mg/kg	0.2	SEO-030	<0.20	SE83681-1	0.62 0.58 RPD: 7	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.42 0.38 RPD: 10	LCS	115%
Indeno[<i>123-cd</i>]pyren e	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.40 0.38 RPD: 5	[NR]	[NR]
Dibenzo[<i>ah</i>]anthrace ne	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10 <0.10	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.40 0.37 RPD: 8	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.8	SEO-030	<1.8	SE83681-1	<5.63 <5.06	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	114	SE83681-1	116 118 RPD: 2	LCS	112%
2-Fluorobiphenyl	%	0	SEO-030	92	SE83681-1	100 100 RPD: 0	LCS	94%
p -Terphenyl-d 14	%	0	SEO-030	84	SE83681-1	102 98 RPD: 4	LCS	82%



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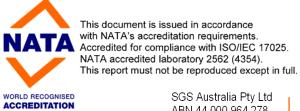
QUALITY CONTROL OC Pesticides in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD	
Date Extracted				3/12/20 10	SE83681-3	3/12/2010 3/12/2010	LCS	3/12/2010	
Date Analysed				3/12/20 10	SE83681-3	3/12/2010 3/12/2010	LCS	3/12/2010	
HCB	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
alpha-BHC	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
Heptachlor	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	LCS	124%	
Aldrin	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	LCS	101%	
beta-BHC	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
delta-BHC	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	LCS	93%	
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
o,p-DDE	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
alpha-Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
trans-Chlordane (gamma)	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
cis-Chlordane (alpha)	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
trans-Nonachlor	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
p,p-DDE	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
Dieldrin	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	LCS	81%	
Endrin	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	LCS	88%	
o,p-DDD	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
o,p-DDT	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
beta-Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
p,p-DDD	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
p,p-DDT	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	LCS	81%	
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]	
2,4,5,6-Tetrachloro-m-xy lene (Surrogate	%	0	SEO-005	98	SE83681-3	125 128 RPD: 2	LCS	76%	



WORLD RECOGNISED
ACCREDITATION

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
OP Pesticides in Soil by GCMS						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted				06/12/1	SE83681-1	6/12/2010 6/12/2010	LCS	06/12/10
Date Analysed				06/12/1	SE83681-1	6/12/2010 6/12/2010	LCS	06/12/10
Dichlorvos	mg/kg	1	AN420	<1	SE83681-1	<1 <1	LCS	101%
Dimethoate	mg/kg	1	AN420	<1	SE83681-1	<1 <1	[NR]	[NR]
Diazinon	mg/kg	0.5	AN420	<0.5	SE83681-1	<0.5 <0.5	LCS	104%
Fenitrothion	mg/kg	0.2	AN420	<0.2	SE83681-1	<0.2 <0.2	[NR]	[NR]
Malathion	mg/kg	0.2	AN420	<0.20	SE83681-1	<0.20 <0.20	[NR]	[NR]
Chlorpyrifos-ethyl	mg/kg	0.2	AN420	<0.2	SE83681-1	<0.2 <0.2	LCS	122%
Parathion-ethyl	mg/kg	0.2	AN420	<0.2	SE83681-1	<0.2 <0.2	[NR]	[NR]
Bromofos-ethyl	mg/kg	0.2	AN420	<0.2	SE83681-1	<0.2 <0.2	[NR]	[NR]
Methidathion	mg/kg	0.5	AN420	<0.5	SE83681-1	<0.5 <0.5	[NR]	[NR]
Ethion	mg/kg	0.2	AN420	<0.2	SE83681-1	<0.2 <0.2	LCS	127%
Azinphos-methyl	mg/kg	0.2	AN420	<0.20	SE83681-1	<0.20 <0.20	[NR]	[NR]
2-fluorobiphenyl (Surr)	%	0	AN420	92	SE83681-1	100 100 RPD: 0	LCS	94%
d14-p-Terphenyl (Surr)	%	0	AN420	84	SE83681-1	102 98 RPD: 4	LCS	78%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
PCBs in Soil						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted				3/12/20 10	SE83681-3	3/12/2010 3/12/2010	LCS	3/12/2010
Date Analysed				3/12/20 10	SE83681-3	3/12/2010 3/12/2010	LCS	3/12/2010
Arochlor 1016	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1260	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	LCS	69%
Arochlor 1262	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]
Arochlor 1268	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1 <0.1	[NR]	[NR]
Total Positive PCB	mg/kg	0.9	SEO-005	<0.90	SE83681-3	<0.90 <0.90	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	98	SE83681-3	125 128 RPD: 2	LCS	72%



QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#		Spike Sm#	Matrix Spike % Recovery
Metals in Soil by ICP-OES					Base + Duplicate + %RPD			Duplicate + %RPD
Date Extracted (Metals)				6/12/20 10	[NT]	[NT]	LCS	6/12/2010
Date Analysed (Metals)				6/12/20 10	[NT]	[NT]	LCS	6/12/2010
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	110%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	115%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	106%
Copper	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	107%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	112%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	109%
Zinc	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	108%

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)				6/12/20 10	[NT]	[NT]	LCS	6/12/2010
Date Analysed (Mercury)				6/12/20 10	[NT]	[NT]	LCS	6/12/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	114%

QUALITY CONTROL Hold sample- NO test required	UNITS	LOR	METHOD	Blank
Sample on HOLD		[NT]		[NT]

QUALITY CONTROL Moisture	UNITS	LOR	METHOD	Blank
Wolstuic				
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1

Result Codes

[INS] : Insufficient Sample for this test [RPD] : Relative Percentage Difference [NR] : Not Requested * : Not part of NATA Accreditation

[NT] : Not tested [N/A] : Not Applicable

[LOR] : Limit of reporting

Report Comments

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*) This document is issued by the Company subject to its General Conditions of Service (www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein.

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

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

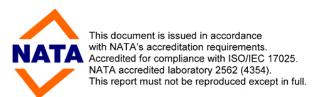
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

ACCREDITATION

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf





Address

2 December 2010

Client Details Laboratory Details

Tim Davis Requested By

JBS Environmental Pty Ltd SGS Environmental Services Client Laboratory

Edward Ibrahim Contact Tim Davis Manager

> Address Unit 16, 33 Maddox Street PO Box 940 MASCOT NSW 1460

> > Email

Alexandria NSW 2015

au.samplereceipt.sydney@sgs.com

Email tdavis@jbsgroup.com.au

Telephone 02 8338 1013 Telephone 61 2 8594 0400 Facsimile 02 8338 1700 Facsimile 61 2 8594 0499

Project 41131 - Riverwood North Renewal SE83681 Report No

Order Number No. of Samples

3 Soils 8/12/2010 Samples Due Date

1/12/2010 **Date Instructions Received** Sample Receipt Date 1/12/2010

Samples received in good order YES Samples received in correct container: YFS Samples received without headspace YES Sufficient quantity supplied YFS Upon receipt sample temperature : Cooling Method Cool Ice YES Sample containers provided by Samples clearly Labelled Other Lab Turnaround time requested Standard Completed documentation received : YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

Comments

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liablility and to the clauses of indemnification.

The signed chain of custody will be returned to you with the original report.



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : JBS Environmental Pty Ltd Report No : SE83681

Project : 41131 - Riverwood North Renewal

Summary of Samples and Requested Analysis

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing. Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep, soil 8 HM	MBTEX in Soil	TRH in soil with C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	OP Pesticides in Soil by GCMS	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Hold sample-NO test required	Moisture
1	QC3A	Х	Х	Х	Х	Х	Х	Х	Х	Х		Χ
2	QC4A										Х	
3	QC5A	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х

Sample No.	Description
1	QC3A
2	QC4A
3	QC5A

CHAIN OF CUSTODY

ENVIRONMENTAL	

OF:	NAME:	OF:	2							T									3					COM	DAT	SEN	PRO	PRO.
		OF: JOS	RELINQUISHED BY:				2		100000000000000000000000000000000000000										QCSA A	Acrts	QC3A	SAMPLE ID		MENTS / SPECIAL HA	E NEEDED BY: 6	SEND REPORT TO: TO JUS 15.	JECT NAME RIVE	PROJECT NO .: 413
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Document Status

Rev	Author	Reviewer	Approved for Issue							
No.	Author	Name	Name	Signature	Date					
Α	Sumi Dorairaj	Charlie Furr	Charlie Furr		10/12/10					
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