

CHAIN OF CUSTODY RECORD

Sydney Laboratory
Unit F3 Bld F, 16 Ware Rd, Lane Cove West, NSW 2086
02 9500 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl, Murrumbidgee, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 81 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 9554 5000 EnviroSampleVic@eurofins.com

Company ALLIANCE GEOTECHNICAL

Address 10 WELDER ROAD, SEVEN HILLS NSW

Contact Name Sam J

Phone No 430214402

Special Directions

Purchase Order

Quote ID No

Project No 13546

Project Name Kemps Creek

Project Manager EDD Format (ESdat, EQuls, Custom)

Sampler(s) Jacob W

Sampler(s) SJ

Analyses (Note: Where metals are requested, please specify Total or Filtered - SUITE code must be used to amend (SUITE prefix))

Suite B7: TRH, BTEXN, PAH, Metals
Suite B13: OCP, PCB
EC and pH
L2 Aggressivity Suite
Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P
E.Coli and total coliforms - thermotolerant
TRH & BTEX
VOC
HOLD

Containers
Requirements (Default with 8 days / note if diff)

1L Plastic
250mL Plastic
125mL Plastic
200mL Amber Glass
40mL VOA Vial
500mL PFAS Bottle
Jar (Glass or HDPE)
Other (Asbestos AS4984 WA Guidelines)

Overnight (9am)*
1 Day*
2 Day*
3 Day*
Other ()

Sample Comments / Dangerous Goods Hazard Warning

No	Client Sample ID	Sampled Date/Time (dd/mm/yyyy hh:mm)	Matrix (Solid (S) Water (W))	Total Counts
1	DR08 0.0-0.1	7/10/21	S	
2	DR08 0.1-0.2	7/10/21	S	
3	SP1-1	7/10/21	S	
4	SP1-2	7/10/21	S	
5	SP1-3	7/10/21	S	
6	DS01	7/10/21	S	
7	DS02	7/10/21	S	
8	DS03	7/10/21	S	
9	DS04	7/10/21	S	
10	DS05	7/10/21	S	
11	DS06	7/10/21	S	
12	DW01	7/10/21	S	
13	DW02	7/10/21	S	
14	DW03	7/10/21	S	
15	DW04	7/10/21	S	
16	DW05	7/10/21	S	
17	DW06	7/10/21	S	
18	DW07	7/10/21	S	
19	DW08	7/10/21	S	
20	SW01	7/10/21	W	
21	SW02	7/10/21	W	
22	SW03	7/10/21	W	
				13
				8
				8
				8
				9

Method of Shipment	Counter #	Hand Delivered	Name	Signature	Date	Time	Temperature	Report No
<input checked="" type="checkbox"/>		<input type="checkbox"/>			8/10/2021	3:41	16.8	833263
Eurofins mgt Laboratory Use Only	Received By							
	Received By							

CHAIN OF CUSTODY RECORD

ASX 50 005 065 521

Sydney Laboratory
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02 9500 8400 EnviroSamplesNSW@eurofins.com

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07 3902 4600 EnviroSamplesQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSamplesWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Calkleigh, VIC 3186
03 8564 5000 EnviroSamplesVIC@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SU
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESD, EQUS, Custom)		Handed over by	
Contact Name	Sam J					Email for Invoice	admin@allgeo.com.au
Phone No	430214402					Email for Results	samiones@allgeo.com.au, enviro@allgeo.com.au, & jacob.walker@allgeo.com.au
Special Directions						Containers	Turnaround Time (TAT) Requirements (On-hand will be 5 days if not urgent)
Purchase Order						1L Plastic	<input type="checkbox"/> Overnight (9am)*
Quote ID No						250mL Plastic	<input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input type="checkbox"/> Other ()

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid / S) Water (W)	Analyses		Method	Signature	Date	Temperature	Report No
				EC and pH	Aggressivity Suite					
1	SW04	7/10/21	W	Suite B7: TRH, BTEXN, PAH, Metals	EC and pH	1L Plastic		8/10/2021		
2	SW05	7/10/21	W	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	250mL Plastic		8/10/2021		
3	SW06	7/10/21	W	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	125mL Plastic		8/10/2021		
4	BD1	7/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	40mL VOA vial		8/10/2021		
5	BD2	7/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	500mL PFAS Bottle		8/10/2021		
6	BT1	7/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
7	BT2	7/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
8	Trip spike x 5	7/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
9	Trip spike x 5	7/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
10	BD3	12/03/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
11	BT3	12/03/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
12	PP2 0.0-0.1	13/08/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
13	PP3 0.0-0.1	13/08/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
14	PP4 0.0-0.1	12/08/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
15	PP4 0.5-0.6	12/08/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
16	PP4 1.0-1.1	12/08/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
17	PP4 1.5-1.6	12/08/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
18	PP4 2.0-2.1	12/08/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
19	PP5 0.0-0.1	13/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
20	PP6 0.0-0.1	12/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
21	PP6 0.5-0.6	12/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
22	PP6 1.0-1.1	12/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Aggressivity Suite	Jar (Glass or HDPE)		8/10/2021		
Total Counts				5	6	6	1	1	2	6

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered	Signature	
Eurofins mgt Laboratory Use Only	Received By	Signature	
	Received By	Signature	
	SYD BNE MEL PER ADL WTL DRW	Signature	
	SYD BNE MEL PER ADL NTL DRW	Signature	
	Date	Date	Date
	Time	Time	Time
	8/10/2021	16/10/21	16.8
	3.4		83263

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ABN 50 005 965 521

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Melbourne Laboratory
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03 8564 5000 EnviroSampleVIC@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Samplers	SJ
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQuls, Custom)		Handed over by	
Contact Name	Sam J					Email for Invoice	admin@allgeo.com.au
Phone No	430214402					Email for Results	samiones@allgeo.com.au, enviro@allgeo.com.au, & jacob.walker@allgeo.com.au
Special Directions						Containers	Turnaround Time (TAT)
Purchase Order						1L Plastic	Requirements (to-hand will be days / in hr)
Quote ID No						250mL Plastic	<input type="checkbox"/> Overnight (9am)*
						125mL Plastic	<input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day*
						200mL Amber Glass	<input type="checkbox"/> 3 Day* <input type="checkbox"/> 5 Day*
						40mL VOA vial	<input type="checkbox"/> Other ()
						500mL PFAS Bottle	
						Jar (Glass or HDPE)	
							Other (Asbestos AS1954 WA Guidelines)
							Sample Comments / Dangerous Goods Hazard Warning

No	Client Sample ID	Sampled Date/Time (dd/mm/yyyy hh:mm)	Matrix (Solid (S) Water (W))	Analyses		Signature	Date	Time
				EC and pH	TRH & BTEX			
1	TP33-0.0-0.1	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	VOC		8/10/2021	
2	TP33-0.1-0.3	8/10/21	S	Suite B13: OCP, PCB	HOLD		8/10/2021	
3	TP34-0.0-0.2	8/10/21	S	L2 Aggressivity Suite			8/10/2021	
4	TP34-0.6-0.8	8/10/21	S	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P			8/10/2021	
5	TP35-0.0-0.2	8/10/21	S	E, Coli and total coliforms - thermotolerant			8/10/2021	
6	TP35-0.6-0.8	8/10/21	S				8/10/2021	
7	TP36-0.0-0.1	8/10/21	S				8/10/2021	
8	TP36-0.1-0.3	8/10/21	S				8/10/2021	
9	TP37-0.0-0.1	8/10/21	S				8/10/2021	
10	TP37-0.1-0.3	8/10/21	S				8/10/2021	
11	TP38-0.0-0.2	8/10/21	S				8/10/2021	
12	TP38-0.4-0.6	8/10/21	S				8/10/2021	
13	TP39-0.0-0.1	8/10/21	S				8/10/2021	
14	TP39-0.1-0.3	8/10/21	S				8/10/2021	
15	TP40-0.0-0.1	8/10/21	S				8/10/2021	
16	TP40-0.1-0.3	8/10/21	S				8/10/2021	
17	TP55-0.0-0.2	8/10/21	S				8/10/2021	
18	TP55-0.3-0.5	8/10/21	S				8/10/2021	
19	TP56-0.0-0.2	8/10/21	S				8/10/2021	
20	TP56-0.7-0.9	8/10/21	S				8/10/2021	
21	TP57-0.1-0.1	8/10/21	S				8/10/2021	
22	TP57-0.1-0.3	8/10/21	S				8/10/2021	
Total Counts				8	3	14		

Method of Shipment	<input checked="" type="checkbox"/> Counter (#)	Hand Delivered	<input type="checkbox"/>	Signature	Date	Time	Temperature	Report No
Eurofins mgt Laboratory Use Only	Received By	NC	SYD BNE MEL PER ADL NTL DRW		8/10/21	3:41	16.8	832213
	Received By		SYD BNE MEL PER ADL NTL DRW					

CHAIN OF CUSTODY RECORD

ASBN 50 005 035 521

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Melbourne Laboratory
2 Kingson Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVIC@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Samplers(s)	SJ
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQUIS, Custom)		Handed over by	
Contact Name	Sam J					Email for Invoice	admin@allgeo.com.au
Phone No	430214402					Email for Results	samjones@allgeo.com.au, enviro@allgeo.com.au, & jacob.walker@allgeo.com.au
Special Directions							
Purchase Order							
Quote ID No							

No.	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	Analytes		Signature	Date	Time
				Method of Shipment	Temperature			
1	TP58-0.0-0.1	8/10/21	S					
2	TP58-0.1-0.3	8/10/21	S					
3	TP59-0.0-0.2	8/10/21	S					
4	TP59-0.7-0.9	8/10/21	S					
5	TP60-0.0-0.2	8/10/21	S					
6	TP60-0.5-0.7	8/10/21	S					
7	SAL01-0.5	8/10/21	S					
8	SAL02-1.0	8/10/21	S					
9	SAL01-1.5	8/10/21	S					
10	SAL02-2.0	8/10/21	S					
11	SAL02-0.5	8/10/21	S					
12	SAL02-1.0	8/10/21	S					
13	SAL02-1.5	8/10/21	S					
14	SAL02-2.0	8/10/21	S					
15	SAL03-0.5	8/10/21	S					
16	SAL03-1.0	8/10/21	S					
17	SAL03-1.5	8/10/21	S					
18	SAL03-2.0	8/10/21	S					
19	SAL03-2.5	8/10/21	S					
20	SAL04-0.5	8/10/21	S					
21	SAL04-1.0	8/10/21	S					
22	SAL04-1.5	8/10/21	S					
				Total Counts				
				16	4	6	8/10/2021	PAGE 10 OF 11

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered	Date	8/10/2021
Eurofins mgt Laboratory Use Only	Received By	Signature	Date
	<i>NC</i>	<i>[Signature]</i>	16.8
	Received By	Signature	Date
		<i>[Signature]</i>	8/3/2023

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.

Eurofins Environment Testing Australia Pty Ltd trading as Eurofins | mgt



Thu 21/10/2021 8:12 PM

Sam Jones <SamJones@allgeo.com.au>

RE: 13546 COC

To Jacob Walker; Andrew Black

Cc Emma Beesley

EXTERNAL EMAIL*

Hi guys,

In addition to this, please analyse DR02 0.2-0.4 for Suite B7.

Thank you.

Regards,

Sam Jones

Environmental Consultant

Mobile: 0430 214 402 | **Email:** SamJones@allgeo.com.au



Office Phone: 1800 288 188
Admin Email: admin@allgeo.com.au
Website: allgeo.com.au
Office & Lab: 8-10 Welder Road, Seven Hills NSW 2147
Postal Address: PO Box 275, Seven Hills NSW 1730

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Alliance Geotechnical
10 Welder Road
Seven Hills
NSW 2147



NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: **Jacob Walker**

Report **834488-W**
 Project name **KEMPS CREEK**
 Project ID **13546**
 Received Date **Oct 22, 2021**

Client Sample ID			SW01	SW02
Sample Matrix			Water	Water
Eurofins Sample No.			S21-Oc48389	S21-Oc48390
Date Sampled			Oct 22, 2021	Oct 22, 2021
Test/Reference	LOR	Unit		
Ammonia (as N)	0.01	mg/L	0.13	0.11
Nitrate & Nitrite (as N)	0.05	mg/L	0.11	0.10
Nitrate (as N)	0.02	mg/L	0.10	0.10
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02
Phosphate total (as P)	0.01	mg/L	1.5	0.52
Total Kjeldahl Nitrogen (as N)	0.2	mg/L	12	4.7
Total Nitrogen (as N)*	0.2	mg/L	12.11	4.8
Pathogens				
E.coli (MPN)	1	MPN/100mL	see attached	see attached
Thermotolerant Coliforms (MPN)	1	MPN/100mL	see attached	see attached
Total Coliforms (MPN)	1	MPN/100mL	see attached	see attached

Sample History

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

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P			
Ammonia (as N) - Method: APHA 4500-NH3 Ammonia Nitrogen by FIA	Melbourne	Oct 27, 2021	28 Days
Nitrate & Nitrite (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Oct 27, 2021	28 Days
Nitrate (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Oct 27, 2021	28 Days
Nitrite (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Oct 27, 2021	2 Days
Total Kjeldahl Nitrogen (as N) - Method: APHA 4500-Norg B,D Total Kjeldahl Nitrogen by FIA	Melbourne	Oct 27, 2021	28 Days
Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P			
Phosphate total (as P) - Method: LTM-INO-4040 Phosphate by CFA	Melbourne	Oct 27, 2021	28 Days
Thermotolerant Coliforms (MPN) - Method: LTM-MIC-6623 Thermotolerant Coliforms by MPN	WaterTestingVic	Oct 22, 2021	24 Hours
Eurofins Micro Suite 3 (E.coli and Total Coliforms) - Method: LTM-MIC-6621 E Coli and Total Coliforms by MPN	WaterTestingVic	Oct 22, 2021	24 Hours

Company Name:	Alliance Geotechnical	Order No.:		Received:	Oct 22, 2021 5:22 PM
Address:	10 Welder Road Seven Hills NSW 2147	Report #:	834488	Due:	Oct 29, 2021
Project Name:	KEMPS CREEK	Phone:	1800 288 188	Priority:	5 Day
Project ID:	13546	Fax:	02 9675 1888	Contact Name:	Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence / Presence	HOLD	Thermolerant Coliforms (MPN)	Eurofins Micro Suite 3 (E.coli and Total Coliforms)	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X			X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																	
Mayfield Laboratory - NATA # 1261 Site # 25079																	
Perth Laboratory - NATA # 2377 Site # 2370																	
External Laboratory								X	X								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID												
1	SW01	Oct 22, 2021		Water	S21-Oc48389			X	X						X		
2	SW02	Oct 22, 2021		Water	S21-Oc48390			X	X						X		
3	DS01	Oct 22, 2021		Soil	S21-Oc48391			X	X		X					X	
4	DS02	Oct 22, 2021		Soil	S21-Oc48392			X	X		X					X	
5	TP04 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48393			X	X		X					X	
6	TP05 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48394			X	X		X					X	
7	TP06 0.0-0.2	Oct 22, 2021		Soil	S21-Oc48395			X	X		X					X	
8	TP11 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48396			X	X		X					X	
9	TP12 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48397			X	X		X					X	

Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 834488
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 22, 2021 5:22 PM
Due: Oct 29, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence / Presence	HOLD	Thermotolerant Coliforms (MPN)	Eurofins Micro Suite 3 (E. coli and Total Coliforms)	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X			X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																	
Mayfield Laboratory - NATA # 1261 Site # 25079																	
Perth Laboratory - NATA # 2377 Site # 2370																	
External Laboratory								X	X								
10	TP13 0.0-0.2	Oct 22, 2021		Soil	S21-Oc48398			X	X			X				X	
11	TP19 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48399			X	X			X				X	
12	TP20 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48400			X	X			X				X	
13	TP21 0.0-0.2	Oct 22, 2021		Soil	S21-Oc48401			X	X			X				X	
14	TP29 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48402			X	X			X				X	
15	TP30 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48403			X	X			X				X	
16	TP31 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48404			X	X			X				X	
17	BD6	Oct 22, 2021		Soil	S21-Oc49312								X	X			
18	BD7	Oct 22, 2021		Soil	S21-Oc49313								X	X			
19	BD8	Oct 22, 2021		Soil	S21-Oc49314								X	X			
20	BD9	Oct 22, 2021		Soil	S21-Oc49315								X	X			

Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 834488
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 22, 2021 5:22 PM
Due: Oct 29, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence / Presence	HOLD	Thermolerant Coliforms (MPN)	Eurofins Micro Suite 3 (E.coli and Total Coliforms)	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX	
Melbourne Laboratory - NATA # 1261 Site # 1254											X	X	X	X	X			
Sydney Laboratory - NATA # 1261 Site # 18217						X	X			X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory								X	X									
21	BD10	Oct 22, 2021		Soil	S21-Oc49316							X	X					
22	BD11	Oct 22, 2021		Soil	S21-Oc49317		X											
23	BD12	Oct 22, 2021		Soil	S21-Oc49318		X											
24	DS13	Oct 22, 2021		Soil	S21-Oc49319		X											
25	DS14	Oct 22, 2021		Soil	S21-Oc49320		X											
26	DS13-ASB	Oct 22, 2021		Building Materials	S21-Oc49321	X												
27	TRIP SPIKE	Oct 22, 2021		Soil	S21-Oc49322													X
28	TRIP BLANK	Oct 22, 2021		Soil	S21-Oc49324					X								
Test Counts						1	4	16	16	1	2	19	19	3	2	14	1	

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ug/L: micrograms per litre
ppm: Parts per million	ppb: Parts per billion	%: Percentage
org/100mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

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

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Ammonia (as N)			mg/L	< 0.01			0.01	Pass	
Nitrate & Nitrite (as N)			mg/L	< 0.05			0.05	Pass	
Nitrate (as N)			mg/L	< 0.02			0.02	Pass	
Nitrite (as N)			mg/L	< 0.02			0.02	Pass	
Phosphate total (as P)			mg/L	< 0.01			0.01	Pass	
Total Kjeldahl Nitrogen (as N)			mg/L	< 0.2			0.2	Pass	
LCS - % Recovery									
Ammonia (as N)			%	102			70-130	Pass	
Nitrate & Nitrite (as N)			%	102			70-130	Pass	
Nitrate (as N)			%	102			70-130	Pass	
Nitrite (as N)			%	107			70-130	Pass	
Phosphate total (as P)			%	106			70-130	Pass	
Total Kjeldahl Nitrogen (as N)			%	96			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Ammonia (as N)	M21-Oc48245	NCP	%	105			70-130	Pass	
Nitrate & Nitrite (as N)	M21-Oc48245	NCP	%	106			70-130	Pass	
Nitrate (as N)	M21-Oc48245	NCP	%	106			70-130	Pass	
Nitrite (as N)	M21-Oc48245	NCP	%	103			70-130	Pass	
Phosphate total (as P)	M21-Oc53290	NCP	%	106			70-130	Pass	
Total Kjeldahl Nitrogen (as N)	L21-Oc48877	NCP	%	88			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	M21-Oc48245	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Nitrate & Nitrite (as N)	M21-Oc48245	NCP	mg/L	1.7	1.7	4.0	30%	Pass	
Nitrate (as N)	M21-Oc48245	NCP	mg/L	1.7	1.7	4.0	30%	Pass	
Nitrite (as N)	M21-Oc48245	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Phosphate total (as P)	B21-Oc57587	NCP	mg/L	0.23	0.23	2.0	30%	Pass	
Total Kjeldahl Nitrogen (as N)	L21-Oc48876	NCP	mg/L	7.7	7.5	3.0	30%	Pass	

Comments

Microbiological analysis performed by: Eurofins Food Testing, NATA accreditation number 20293, report reference: AR-21-NV-009472-01

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

Andrew Black Analytical Services Manager
Scott Beddoes Senior Analyst-Inorganic (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Alliance Geotechnical
10 Welder Road
Seven Hills
NSW 2147



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: **Jacob Walker**

Report **834488-S**
 Project name **KEMPS CREEK**
 Project ID **13546**
 Received Date **Oct 22, 2021**

Client Sample ID			DS01	DS02	TP04 0.0-0.1	TP05 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc48391	S21-Oc48392	S21-Oc48393	S21-Oc48394
Date Sampled			Oct 22, 2021	Oct 22, 2021	Oct 22, 2021	Oct 22, 2021
Test/Reference	LOR	Unit				
Ammonia (as N)	5	mg/kg	14	7.1	1600	-
Nitrate & Nitrite (as N)	5	mg/kg	< 5	< 5	3900	-
Nitrate (as N)	5	mg/kg	< 5	< 5	3900	-
Nitrite (as N)	5	mg/kg	< 5	< 5	< 5	-
Total Kjeldahl Nitrogen (as N)	10	mg/kg	2100	2800	11000	2500
Total Nitrogen (as N)*	10	mg/kg	2100	2800	14900	-
Phosphorus	5	mg/kg	780	760	3100	1900
% Moisture	1	%	34	41	8.5	25
Pathogens						
E.coli (MPN)	1	MPN/g	see attached	see attached	see attached	see attached
Thermotolerant Coliforms (MPN)	1	MPN/g	see attached	see attached	see attached	see attached
Total Coliforms (MPN)	1	MPN/g	see attached	see attached	see attached	see attached

Client Sample ID			TP06 0.0-0.2	TP11 0.0-0.1	TP12 0.0-0.1	TP13 0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc48395	S21-Oc48396	S21-Oc48397	S21-Oc48398
Date Sampled			Oct 22, 2021	Oct 22, 2021	Oct 22, 2021	Oct 22, 2021
Test/Reference	LOR	Unit				
Ammonia (as N)	5	mg/kg	< 5	5200	150	< 5
Nitrate & Nitrite (as N)	5	mg/kg	< 5	14000	1100	7.7
Nitrate (as N)	5	mg/kg	< 5	14000	1100	7.5
Nitrite (as N)	5	mg/kg	< 5	8.4	< 5	< 5
Total Kjeldahl Nitrogen (as N)	10	mg/kg	19000	3500	12000	5500
Total Nitrogen (as N)*	10	mg/kg	19000	17500	13100	5507.7
Phosphorus	5	mg/kg	740	4700	13000	1500
% Moisture	1	%	15	21	45	18
Pathogens						
E.coli (MPN)	1	MPN/g	see attached	see attached	see attached	see attached
Thermotolerant Coliforms (MPN)	1	MPN/g	see attached	see attached	see attached	see attached
Total Coliforms (MPN)	1	MPN/g	see attached	see attached	see attached	see attached

Client Sample ID			TP19 0.0-0.1	TP20 0.0-0.1	TP21 0.0-0.2	TP29 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc48399	S21-Oc48400	S21-Oc48401	S21-Oc48402
Date Sampled			Oct 22, 2021	Oct 22, 2021	Oct 22, 2021	Oct 22, 2021
Test/Reference	LOR	Unit				
Ammonia (as N)	5	mg/kg	1100	3400	< 5	370
Nitrate & Nitrite (as N)	5	mg/kg	3000	9400	7.4	86
Nitrate (as N)	5	mg/kg	3000	9400	7.4	82
Nitrite (as N)	5	mg/kg	< 5	< 5	< 5	< 5
Total Kjeldahl Nitrogen (as N)	10	mg/kg	8400	11000	7900	2200
Total Nitrogen (as N)*	10	mg/kg	11400	20400	7907.4	2286
Phosphorus	5	mg/kg	5400	13000	3100	1900
% Moisture	1	%	8.7	16	17	13
Pathogens						
E.coli (MPN)	1	MPN/g	see attached	see attached	see attached	see attached
Thermotolerant Coliforms (MPN)	1	MPN/g	see attached	see attached	see attached	see attached
Total Coliforms (MPN)	1	MPN/g	see attached	see attached	see attached	see attached

Client Sample ID			TP30 0.0-0.1	TP31 0.0-0.1	BD6	BD7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc48403	S21-Oc48404	S21-Oc49312	S21-Oc49313
Date Sampled			Oct 22, 2021	Oct 22, 2021	Oct 22, 2021	Oct 22, 2021
Test/Reference	LOR	Unit				
Ammonia (as N)	5	mg/kg	1200	12	-	-
Nitrate & Nitrite (as N)	5	mg/kg	3500	8.7	-	-
Nitrate (as N)	5	mg/kg	3500	8.7	-	-
Nitrite (as N)	5	mg/kg	< 5	< 5	-	-
Total Kjeldahl Nitrogen (as N)	10	mg/kg	3000	13000	-	-
Total Nitrogen (as N)*	10	mg/kg	6500	13008.7	-	-
Phosphorus	5	mg/kg	960	1400	-	-
% Moisture	1	%	14	17	16	31
Pathogens						
E.coli (MPN)	1	MPN/g	see attached	see attached	-	-
Thermotolerant Coliforms (MPN)	1	MPN/g	see attached	see attached	-	-
Total Coliforms (MPN)	1	MPN/g	see attached	see attached	-	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	79	-
TRH C29-C36	50	mg/kg	-	-	160	-
TRH C10-C36 (Total)	50	mg/kg	-	-	239	-
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	200	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	200	-

Client Sample ID			TP30 0.0-0.1	TP31 0.0-0.1	BD6	BD7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc48403	S21-Oc48404	S21-Oc49312	S21-Oc49313
Date Sampled			Oct 22, 2021	Oct 22, 2021	Oct 22, 2021	Oct 22, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	109	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	57	-
p-Terphenyl-d14 (surr.)	1	%	-	-	71	-
Heavy Metals						
Arsenic	2	mg/kg	-	-	6.6	-
Cadmium	0.4	mg/kg	-	-	< 0.4	-
Chromium	5	mg/kg	-	-	15	-
Copper	5	mg/kg	-	-	42	-
Lead	5	mg/kg	-	-	20	-
Mercury	0.1	mg/kg	-	-	< 0.1	-
Nickel	5	mg/kg	-	-	16	-
Zinc	5	mg/kg	-	-	120	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.5
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.5
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.5
a-HCH	0.05	mg/kg	-	-	-	< 0.5
Aldrin	0.05	mg/kg	-	-	-	< 0.5
b-HCH	0.05	mg/kg	-	-	-	< 0.5
d-HCH	0.05	mg/kg	-	-	-	< 0.5
Dieldrin	0.05	mg/kg	-	-	-	< 0.5

Client Sample ID			TP30 0.0-0.1	TP31 0.0-0.1	BD6	BD7
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc48403	S21-Oc48404	S21-Oc49312	S21-Oc49313
Date Sampled			Oct 22, 2021	Oct 22, 2021	Oct 22, 2021	Oct 22, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan I	0.05	mg/kg	-	-	-	< 0.5
Endosulfan II	0.05	mg/kg	-	-	-	< 0.5
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.5
Endrin	0.05	mg/kg	-	-	-	< 0.5
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.5
Endrin ketone	0.05	mg/kg	-	-	-	< 0.5
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.5
Heptachlor	0.05	mg/kg	-	-	-	< 0.5
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.5
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.5
Methoxychlor	0.05	mg/kg	-	-	-	< 0.5
Toxaphene	0.5	mg/kg	-	-	-	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 1
Dibutylchlorendate (surr.)	1	%	-	-	-	62
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	114
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 1
Aroclor-1221	0.1	mg/kg	-	-	-	< 1
Aroclor-1232	0.1	mg/kg	-	-	-	< 1
Aroclor-1242	0.1	mg/kg	-	-	-	< 1
Aroclor-1248	0.1	mg/kg	-	-	-	< 1
Aroclor-1254	0.1	mg/kg	-	-	-	< 1
Aroclor-1260	0.1	mg/kg	-	-	-	< 1
Total PCB*	0.1	mg/kg	-	-	-	< 1
Dibutylchlorendate (surr.)	1	%	-	-	-	62
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	114

Client Sample ID			BD8	BD9	BD10	TRIP SPIKE
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc49314	S21-Oc49315	S21-Oc49316	S21-Oc49322
Date Sampled			Oct 22, 2021	Oct 22, 2021	Oct 22, 2021	Oct 22, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	30	22	16	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	< 50	-

Client Sample ID			BD8	BD9	BD10	TRIP SPIKE
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc49314	S21-Oc49315	S21-Oc49316	S21-Oc49322
Date Sampled			Oct 22, 2021	Oct 22, 2021	Oct 22, 2021	Oct 22, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	91	-	114	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	53	-	54	-
p-Terphenyl-d14 (surr.)	1	%	60	-	54	-
Heavy Metals						
Arsenic	2	mg/kg	6.5	-	10	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	14	-	16	-
Copper	5	mg/kg	22	-	21	-
Lead	5	mg/kg	19	-	17	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	11	-	15	-
Zinc	5	mg/kg	70	-	39	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4,4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4,4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4,4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID			BD8	BD9	BD10	TRIP SPIKE
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc49314	S21-Oc49315	S21-Oc49316	S21-Oc49322
Date Sampled			Oct 22, 2021	Oct 22, 2021	Oct 22, 2021	Oct 22, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	0.08	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	102	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	93	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	102	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	93	-	-
BTEX						
Benzene	1	%	-	-	-	81
Ethylbenzene	1	%	-	-	-	96
m&p-Xylenes	1	%	-	-	-	96
o-Xylene	1	%	-	-	-	96
Toluene	1	%	-	-	-	100
Xylenes - Total	1	%	-	-	-	96
4-Bromofluorobenzene (surr.)	1	%	-	-	-	84

Client Sample ID			TRIP BLANK
Sample Matrix			Soil
Eurofins Sample No.			S21-Oc49324
Date Sampled			Oct 22, 2021
Test/Reference	LOR	Unit	
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	84

Sample History

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

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P			
Ammonia (as N) - Method: APHA 4500-NH3 Ammonia Nitrogen by FIA	Melbourne	Oct 26, 2021	28 Days
Nitrate & Nitrite (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Oct 26, 2021	28 Days
Nitrate (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Oct 26, 2021	28 Days
Nitrite (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Oct 26, 2021	28 Days
Total Kjeldahl Nitrogen (as N) - Method: APHA 4500-Norg B,D Total Kjeldahl Nitrogen by FIA	Melbourne	Oct 26, 2021	28 Days
Phosphorus - Method: LTM-MET-3010 Alkali Metals Sulfur Silicon and Phosphorus by ICP-AES	Melbourne	Oct 26, 2021	180 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Oct 22, 2021	14 Days
Thermotolerant Coliforms (MPN) - Method: Inhouse: Thermotolerant Coliforms in Soil by MPN*	WaterTestingVic	Oct 22, 2021	72 Hours
Eurofins Micro Suite 3 (E.coli and Total Coliforms) - Method: LTM-MIC-6621 E Coli and Total Coliforms by MPN	WaterTestingVic	Oct 22, 2021	72 Hours
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Oct 29, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Oct 29, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Oct 29, 2021	14 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Oct 29, 2021	14 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Oct 29, 2021	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Oct 29, 2021	28 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Oct 29, 2021	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Oct 29, 2021	28 Days

Company Name:	Alliance Geotechnical	Order No.:		Received:	Oct 22, 2021 5:22 PM
Address:	10 Welder Road Seven Hills NSW 2147	Report #:	834488	Due:	Oct 29, 2021
Project Name:	KEMPS CREEK	Phone:	1800 288 188	Priority:	5 Day
Project ID:	13546	Fax:	02 9675 1888	Contact Name:	Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence / Presence	HOLD	Thermolerant Coliforms (MPN)	Eurofins Micro Suite 3 (E.coli and Total Coliforms)	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X			X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																	
Mayfield Laboratory - NATA # 1261 Site # 25079																	
Perth Laboratory - NATA # 2377 Site # 2370																	
External Laboratory								X	X								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID												
1	SW01	Oct 22, 2021		Water	S21-Oc48389			X	X						X		
2	SW02	Oct 22, 2021		Water	S21-Oc48390			X	X						X		
3	DS01	Oct 22, 2021		Soil	S21-Oc48391			X	X		X					X	
4	DS02	Oct 22, 2021		Soil	S21-Oc48392			X	X		X					X	
5	TP04 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48393			X	X		X					X	
6	TP05 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48394			X	X		X					X	
7	TP06 0.0-0.2	Oct 22, 2021		Soil	S21-Oc48395			X	X		X					X	
8	TP11 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48396			X	X		X					X	
9	TP12 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48397			X	X		X					X	

Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 834488
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 22, 2021 5:22 PM
Due: Oct 29, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence / Presence	HOLD	Thermolerant Coliforms (MPN)	Eurofins Micro Suite 3 (E.coli and Total Coliforms)	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X			X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																	
Mayfield Laboratory - NATA # 1261 Site # 25079																	
Perth Laboratory - NATA # 2377 Site # 2370																	
External Laboratory								X	X								
10	TP13 0.0-0.2	Oct 22, 2021		Soil	S21-Oc48398			X	X			X				X	
11	TP19 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48399			X	X			X				X	
12	TP20 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48400			X	X			X				X	
13	TP21 0.0-0.2	Oct 22, 2021		Soil	S21-Oc48401			X	X			X				X	
14	TP29 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48402			X	X			X				X	
15	TP30 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48403			X	X			X				X	
16	TP31 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48404			X	X			X				X	
17	BD6	Oct 22, 2021		Soil	S21-Oc49312								X	X			
18	BD7	Oct 22, 2021		Soil	S21-Oc49313						X		X				
19	BD8	Oct 22, 2021		Soil	S21-Oc49314							X	X				
20	BD9	Oct 22, 2021		Soil	S21-Oc49315					X		X					

Company Name:	Alliance Geotechnical	Order No.:		Received:	Oct 22, 2021 5:22 PM
Address:	10 Welder Road Seven Hills NSW 2147	Report #:	834488	Due:	Oct 29, 2021
Project Name:	KEMPS CREEK	Phone:	1800 288 188	Priority:	5 Day
Project ID:	13546	Fax:	02 9675 1888	Contact Name:	Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence / Presence	HOLD	Thermolerant Coliforms (MPN)	Eurofins Micro Suite 3 (E. coli and Total Coliforms)	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X			X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																	
Mayfield Laboratory - NATA # 1261 Site # 25079																	
Perth Laboratory - NATA # 2377 Site # 2370																	
External Laboratory								X	X								
21	BD10	Oct 22, 2021		Soil	S21-Oc49316							X	X				
22	BD11	Oct 22, 2021		Soil	S21-Oc49317		X										
23	BD12	Oct 22, 2021		Soil	S21-Oc49318		X										
24	DS13	Oct 22, 2021		Soil	S21-Oc49319		X										
25	DS14	Oct 22, 2021		Soil	S21-Oc49320		X										
26	DS13-ASB	Oct 22, 2021		Building Materials	S21-Oc49321	X											
27	TRIP SPIKE	Oct 22, 2021		Soil	S21-Oc49322												X
28	TRIP BLANK	Oct 22, 2021		Soil	S21-Oc49324					X							
Test Counts						1	4	16	16	1	2	19	19	3	2	14	1

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

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

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

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

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Ammonia (as N)	mg/kg	< 5			5	Pass	
Nitrate & Nitrite (as N)	mg/kg	< 5			5	Pass	
Nitrate (as N)	mg/kg	< 5			5	Pass	
Nitrite (as N)	mg/kg	< 5			5	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
LCS - % Recovery							
Ammonia (as N)	%	104			70-130	Pass	
Nitrate & Nitrite (as N)	%	105			70-130	Pass	
Nitrate (as N)	%	104			70-130	Pass	
Nitrite (as N)	%	106			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	92			70-130	Pass	
TRH C10-C14	%	123			70-130	Pass	
Naphthalene	%	98			70-130	Pass	
TRH C6-C10	%	96			70-130	Pass	
TRH >C10-C16	%	118			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	87			70-130	Pass	
Toluene	%	97			70-130	Pass	
Ethylbenzene	%	96			70-130	Pass	
m&p-Xylenes	%	106			70-130	Pass	
o-Xylene	%	103			70-130	Pass	
Xylenes - Total*	%	105			70-130	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	75			70-130	Pass	
Acenaphthylene	%	79			70-130	Pass	
Anthracene	%	73			70-130	Pass	
Benz(a)anthracene	%	74			70-130	Pass	
Benzo(a)pyrene	%	73			70-130	Pass	
Benzo(b&j)fluoranthene	%	72			70-130	Pass	
Benzo(g,h,i)perylene	%	70			70-130	Pass	
Benzo(k)fluoranthene	%	70			70-130	Pass	
Chrysene	%	72			70-130	Pass	
Dibenz(a,h)anthracene	%	74			70-130	Pass	
Fluoranthene	%	72			70-130	Pass	
Fluorene	%	72			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	72			70-130	Pass	
Naphthalene	%	76			70-130	Pass	
Phenanthrene	%	73			70-130	Pass	
Pyrene	%	74			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	92			80-120	Pass	
Cadmium	%	96			80-120	Pass	
Chromium	%	90			80-120	Pass	
Copper	%	88			80-120	Pass	
Lead	%	95			80-120	Pass	
Mercury	%	98			80-120	Pass	
Nickel	%	89			80-120	Pass	
Zinc	%	88			80-120	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	90			70-130	Pass	
4,4'-DDD	%	91			70-130	Pass	
4,4'-DDE	%	89			70-130	Pass	
4,4'-DDT	%	126			70-130	Pass	
a-HCH	%	80			70-130	Pass	
Aldrin	%	85			70-130	Pass	
b-HCH	%	80			70-130	Pass	
d-HCH	%	84			70-130	Pass	
Dieldrin	%	87			70-130	Pass	
Endosulfan I	%	89			70-130	Pass	
Endosulfan II	%	85			70-130	Pass	
Endosulfan sulphate	%	78			70-130	Pass	
Endrin	%	119			70-130	Pass	
Endrin aldehyde	%	95			70-130	Pass	
Endrin ketone	%	90			70-130	Pass	
g-HCH (Lindane)	%	83			70-130	Pass	
Heptachlor	%	99			70-130	Pass	
Heptachlor epoxide	%	88			70-130	Pass	
Hexachlorobenzene	%	86			70-130	Pass	
Methoxychlor	%	88			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	73			70-130	Pass	
Aroclor-1260	%	89			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C10-C14	S21-Oc54052	NCP	%	120		70-130	Pass	
TRH >C10-C16	S21-Oc54052	NCP	%	117		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthylene	S21-Oc63511	NCP	%	73		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-Oc53971	NCP	%	85		75-125	Pass	
Cadmium	S21-Oc53971	NCP	%	86		75-125	Pass	
Chromium	S21-Oc53971	NCP	%	80		75-125	Pass	
Copper	S21-Oc53971	NCP	%	76		75-125	Pass	
Lead	S21-Oc53971	NCP	%	82		75-125	Pass	
Mercury	S21-Oc53971	NCP	%	88		75-125	Pass	
Nickel	S21-Oc53971	NCP	%	77		75-125	Pass	
Zinc	S21-Oc53971	NCP	%	78		75-125	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	S21-Oc56755	NCP	%	98		70-130	Pass	
4.4'-DDD	S21-Oc56755	NCP	%	108		70-130	Pass	
4.4'-DDE	S21-Oc56755	NCP	%	97		70-130	Pass	
4.4'-DDT	S21-Oc56755	NCP	%	117		70-130	Pass	
a-HCH	S21-Oc56755	NCP	%	90		70-130	Pass	
Aldrin	S21-Oc56755	NCP	%	93		70-130	Pass	
b-HCH	S21-Oc56755	NCP	%	89		70-130	Pass	
d-HCH	S21-Oc56755	NCP	%	92		70-130	Pass	
Dieldrin	S21-Oc56755	NCP	%	95		70-130	Pass	
Endosulfan I	S21-Oc56755	NCP	%	88		70-130	Pass	
Endosulfan II	S21-Oc56755	NCP	%	93		70-130	Pass	
Endosulfan sulphate	S21-Oc56755	NCP	%	85		70-130	Pass	
Endrin	S21-Oc56755	NCP	%	112		70-130	Pass	
Endrin aldehyde	S21-No10311	NCP	%	105		70-130	Pass	
Endrin ketone	S21-Oc56755	NCP	%	104		70-130	Pass	
g-HCH (Lindane)	S21-Oc56755	NCP	%	91		70-130	Pass	
Heptachlor	S21-Oc56755	NCP	%	102		70-130	Pass	
Heptachlor epoxide	S21-Oc56755	NCP	%	96		70-130	Pass	
Hexachlorobenzene	S21-Oc56755	NCP	%	93		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	S21-Oc56755	NCP	%	79		70-130	Pass	
Aroclor-1260	S21-Oc56755	NCP	%	99		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	S21-Oc49316	CP	%	83		70-130	Pass	
Naphthalene	S21-Oc49316	CP	%	92		70-130	Pass	
TRH C6-C10	S21-Oc49316	CP	%	86		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S21-Oc49316	CP	%	82		70-130	Pass	
Toluene	S21-Oc49316	CP	%	84		70-130	Pass	
Ethylbenzene	S21-Oc49316	CP	%	89		70-130	Pass	
m&p-Xylenes	S21-Oc49316	CP	%	101		70-130	Pass	
o-Xylene	S21-Oc49316	CP	%	101		70-130	Pass	
Xylenes - Total*	S21-Oc49316	CP	%	101		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Phosphorus	M21-Oc25456	NCP	mg/kg	750	770	3.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	S21-Oc48395	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nitrate & Nitrite (as N)	S21-Oc48395	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nitrate (as N)	S21-Oc48395	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nitrite (as N)	S21-Oc48395	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Oc48397	CP	%	45	46	2.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	S21-Oc48401	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nitrate & Nitrite (as N)	S21-Oc48401	CP	mg/kg	7.4	7.3	2.0	30%	Pass	
Nitrate (as N)	S21-Oc48401	CP	mg/kg	7.4	7.1	4.0	30%	Pass	
Nitrite (as N)	S21-Oc48401	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-Oc54041	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-Oc47637	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Oc47637	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Oc47637	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-Oc54041	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Oc54041	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-Oc47637	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Oc47637	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Oc47637	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Oc54041	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Oc54041	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Oc54041	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Oc54041	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Oc54041	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Oc54041	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Oc63477	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Oc53139	NCP	mg/kg	4.1	5.7	31	30%	Fail	Q15
Cadmium	S21-Oc53139	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Oc53139	NCP	mg/kg	13	14	9.0	30%	Pass	
Copper	S21-Oc53139	NCP	mg/kg	23	19	24	30%	Pass	
Lead	S21-Oc53139	NCP	mg/kg	27	31	14	30%	Pass	
Mercury	S21-Oc53139	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Oc53139	NCP	mg/kg	22	11	66	30%	Fail	Q15
Zinc	S21-Oc53139	NCP	mg/kg	43	48	10	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-Oc56754	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4,4'-DDD	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDT	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Oc56754	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S21-Oc56754	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-Oc56754	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S21-Oc56754	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-Oc56754	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S21-Oc56754	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S21-Oc56754	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S21-Oc56754	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S21-Oc56754	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S21-Oc56754	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Comments

Microbiological analysis performed by: Eurofins Food Testing, NATA accreditation number 20293, report reference: AR-21-NV-009472-01
Please note that re-analysis was required for NH3/NOX/NO2/NO3 on Oc48394 however insufficient sample remained.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Andrew Black	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Scott Beddoes	Senior Analyst-Inorganic (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Alliance Geotechnical
10 Welder Road
Seven Hills
NSW 2147



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025—Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: Jacob Walker
Report 834488-AID
Project Name **KEMPS CREEK**
Project ID 13546
Received Date Oct 22, 2021
Date Reported Nov 10, 2021

Methodology:

Asbestos Fibre
 Identification

Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques.

NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.

Unknown Mineral
 Fibres

Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity.

NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.

Subsampling Soil
 Samples

The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.

NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.

Bonded asbestos-
 containing material
 (ACM)

The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004.

NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.

Limit of Reporting

The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w).

The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk).

NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.

Project Name KEMPS CREEK
Project ID 13546
Date Sampled Oct 22, 2021
Report 834488-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
DS13-ASB	21-Oc49321	Oct 22, 2021	Approximate Sample 22g / 70x40x6mm Sample consisted of: (a) Brown compressed fibre cement (b) White paint flakes	Chrysotile asbestos detected.(a)

Sample History

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

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Oct 22, 2021	Indefinite

Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 834488
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 22, 2021 5:22 PM
Due: Oct 29, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence / Presence	HOLD	Thermolerant Coliforms (MPN)	Eurofins Micro Suite 3 (E.coli and Total Coliforms)	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X			X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																	
Mayfield Laboratory - NATA # 1261 Site # 25079																	
Perth Laboratory - NATA # 2377 Site # 2370																	
External Laboratory								X	X								
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID												
1	SW01	Oct 22, 2021		Water	S21-Oc48389			X	X						X		
2	SW02	Oct 22, 2021		Water	S21-Oc48390			X	X						X		
3	DS01	Oct 22, 2021		Soil	S21-Oc48391			X	X		X					X	
4	DS02	Oct 22, 2021		Soil	S21-Oc48392			X	X		X					X	
5	TP04 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48393			X	X		X					X	
6	TP05 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48394			X	X		X					X	
7	TP06 0.0-0.2	Oct 22, 2021		Soil	S21-Oc48395			X	X		X					X	
8	TP11 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48396			X	X		X					X	
9	TP12 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48397			X	X		X					X	

Company Name:	Alliance Geotechnical	Order No.:		Received:	Oct 22, 2021 5:22 PM
Address:	10 Welder Road Seven Hills NSW 2147	Report #:	834488	Due:	Oct 29, 2021
Project Name:	KEMPS CREEK	Phone:	1800 288 188	Priority:	5 Day
Project ID:	13546	Fax:	02 9675 1888	Contact Name:	Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence / Presence	HOLD	Thermotolerant Coliforms (MPN)	Eurofins Micro Suite 3 (E.coli and Total Coliforms)	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X			X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																	
Mayfield Laboratory - NATA # 1261 Site # 25079																	
Perth Laboratory - NATA # 2377 Site # 2370																	
External Laboratory								X	X								
10	TP13 0.0-0.2	Oct 22, 2021		Soil	S21-Oc48398			X	X			X					X
11	TP19 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48399			X	X			X					X
12	TP20 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48400			X	X			X					X
13	TP21 0.0-0.2	Oct 22, 2021		Soil	S21-Oc48401			X	X			X					X
14	TP29 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48402			X	X			X					X
15	TP30 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48403			X	X			X					X
16	TP31 0.0-0.1	Oct 22, 2021		Soil	S21-Oc48404			X	X			X					X
17	BD6	Oct 22, 2021		Soil	S21-Oc49312								X	X			
18	BD7	Oct 22, 2021		Soil	S21-Oc49313						X		X				
19	BD8	Oct 22, 2021		Soil	S21-Oc49314							X	X				
20	BD9	Oct 22, 2021		Soil	S21-Oc49315					X		X					

Company Name:	Alliance Geotechnical	Order No.:		Received:	Oct 22, 2021 5:22 PM
Address:	10 Welder Road Seven Hills NSW 2147	Report #:	834488	Due:	Oct 29, 2021
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Project ID:	13546	Fax:	02 9675 1888	Contact Name:	Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Absence / Presence	HOLD	Thermolerant Coliforms (MPN)	Eurofins Micro Suite 3 (E.coli and Total Coliforms)	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X	X	X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X			X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																	
Mayfield Laboratory - NATA # 1261 Site # 25079																	
Perth Laboratory - NATA # 2377 Site # 2370																	
External Laboratory								X	X								
21	BD10	Oct 22, 2021		Soil	S21-Oc49316							X	X				
22	BD11	Oct 22, 2021		Soil	S21-Oc49317		X										
23	BD12	Oct 22, 2021		Soil	S21-Oc49318		X										
24	DS13	Oct 22, 2021		Soil	S21-Oc49319		X										
25	DS14	Oct 22, 2021		Soil	S21-Oc49320		X										
26	DS13-ASB	Oct 22, 2021		Building Materials	S21-Oc49321	X											
27	TRIP SPIKE	Oct 22, 2021		Soil	S21-Oc49322												X
28	TRIP BLANK	Oct 22, 2021		Soil	S21-Oc49324					X							
Test Counts						1	4	16	16	1	2	19	19	3	2	14	1

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (% w/w)
F/ld	Airborne fibre filter loading as Fibres (N) per Fields counted (n)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (C)
g, kg	Mass, e.g. of whole sample (M) or asbestos-containing find within the sample (m)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (V = r x t)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (r)
min	Time (t), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration:
$$C = \frac{N}{a} \times \frac{n}{r} \times \frac{r}{t} \times \frac{t}{V} = K \times \frac{N}{n} \times \frac{r}{V}$$

Asbestos Content (as asbestos):
$$\% w/w = \frac{(m \times PA)}{M}$$

Weighted Average (of asbestos):
$$\% w/w = \frac{\sum(m \times PA)_x}{X}$$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 <i>Appendix 2</i> , else assumed to be 15% in accordance with WA DOH <i>Appendix 2 (PA)</i> .
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (% w/w).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Compliant	Indicates the item has been assessed against the relevant criteria, e.g. NATA SAC_07.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.
HSG248	UK HSE HSG248, <i>Asbestos: The Analysts Guide</i> , 2nd Edition (2021).
HSG264	UK HSE HSG264, <i>Asbestos: The Survey Guide</i> (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (K) as derived from the effective filter area of the given AFM membrane used for collecting the sample (A) and the projected eyepiece graticule area of the specific microscope used for the analysis (a).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, <i>Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres</i> , 2nd Edition [NOHSC:3003(2005)].
N/A	Not Applicable. Indicates a result or assessment is not required or applicable to that item.
NATA	National Association of Testing Authorities, Australia.
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
SAC_07	Specific Accreditation Criteria: ISO/IEC 17025 Application Document, Life Sciences – Annex, Asbestos sampling and testing.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according to the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, <i>Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia</i> (updated 2021), including Appendix Four: <i>Laboratory analysis</i>
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (%w/w).

Comments

Microbiological analysis performed by: Eurofins Food Testing, NATA accreditation number 20293, report reference: AR-21-NV-009472-01

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Bennel Jiri Senior Analyst-Asbestos (NSW)

Authorised by:

Sayeed Abu Senior Analyst-Asbestos (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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

CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory
Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl, Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546				Project Manager	Jacob W			Sampler(s)	SJ			
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek				EDD Format (ESdat, EQUIS, Custom)				Handed over by				
Contact Name	Sam J	Analyses <small>(Note: Where initials are requested, please specify "Total" or "Filtered" - SUITE code must be used to attract SUITE pricing.)</small>	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13 : OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	Email for Invoice	admin@allgeo.com.au		
Phone No	430214402											Email for Results	samjones@allgeo.com.au, enviro@allgeo.com.au, & jacob.walker@allgeo.com.au		
Special Directions												Containers		Turnaround Time (TAT) Requirements (Default will be 5 days if not tick)	
Purchase Order												<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input type="checkbox"/> 5 Day* <input type="checkbox"/> Other (
Quote ID No												Sample Comments / Dangerous Goods Hazard Warning			

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))										
1	TP04 0.0-0.1	22/10/21	S				X	X					
2	TP05 0.0-0.1	22/10/21	S				X	X					
3	TP06 0.0-0.2	22/10/21	S				X	X					
4	TP11 0.0-0.1	22/10/21	S				X	X					
5	TP12 0.0-0.1	22/10/21	S				X	X					
6	TP19 0.0-0.1	22/10/21	S				X	X					
7	TP20 0.0-0.1	22/10/21	S				X	X					
8	TP21 0.0-0.2	22/10/21	S				X	X					
2	DS01	22/10/21	S				X	X					
3	DS02	22/10/21	S				X	X					
4	SW01	22/10/21	W				X	X					
5	SW02	22/10/21	W				X	X					
6	TP13-0.0-0.2	22/10/21	S				X	X					
7	TP29-0.0-0.1	22/10/21	S				X	X					
8	TP30-0.0-0.1	22/10/21	S				X	X					
9	TP31-0.0-0.2	22/10/21	S				X	X					
0	BD6	22/10/21	S		X								
1	BT6	22/10/21	S		X								
2	BD7	22/10/21	S			X							Please send to ALS for analysis
Total Counts					2	1			16	16			

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ		Signature		Date	10/8/2021	Time		
Eurofins mgt laboratory Use Only	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	22/10/21	Time	5:22PM	Temperature	21.6°C
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___	Report No	834488

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.



Company		ALLIANCE GEOTECHNICAL		Project No		13546		Project Manager		Jacob W		Sampler(s)		SJ							
Address		10 WELDER ROAD, SEVEN HILLS NSW		Project Name		Kemps Creek		EDD Format (ESdat, EQuIS, Custom)				Handed over by									
Contact Name		Sam J		Analyses <small>(Note: Where metals are requested, please specify 'Total' or 'Filtered', SUITE code must be used to attract SUITE pricing.)</small>		BTEX Suite B7: TRH, BTEXN, PAH, Metals Suite B13 : OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coil and total coliforms - thermotolerant		TRH & BTEX VOC HOLD ASBESTOS ID		Email for Invoice		admin@allgeo.com.au		Email for Results		admin@allgeo.com.au, samjones@allgeo.com.au, enviro@allgeo.com.au & jacob.walker@allgeo.com.au					
Phone No		430214402								Containers		Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)		<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input type="checkbox"/> 5 Day* <input type="checkbox"/> Other ()							
Special Directions										1L Plastic				250mL Plastic				200mL Amber Glass			
Purchase Order										40mL VOA vial				500mL PFAS Bottle				Jar (Glass or HDPE)		Other (Asbestos AS4984, WA Guidelines)	
Quote ID No				Matrix (Solid (S) Water (W))										Sample Comments / Dangerous Goods Hazard Warning							
No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)																			
1	BT7	22/10/21	S												Please send to ALS for analysis						
2	BD8	22/10/21	S		X	X									Please send to ALS for analysis						
3	BT8	22/10/21	S		X										Please send to ALS for analysis						
4	BD9	22/10/21	S			X									Please send to ALS for analysis						
5	BT9	22/10/21	S			X									Please send to ALS for analysis						
6	BD10	22/10/21	S		X										Please send to ALS for analysis						
7	BT10	22/10/21	S		X										Please send to ALS for analysis						
8	BD11	22/10/21	S							X					Please send to ALS for analysis						
9	BT11	22/10/21	S							X					Please send to ALS for analysis						
10	BD12	22/10/21	S							X					Please send to ALS for analysis						
11	BT12	22/10/21	S							X					Please send to ALS for analysis						
12	DS13	22/10/21	S							X											
13	DS14	22/10/21	S							X											
14	DS13-ASB	22/10/21	FRAG								X										
15	Trip spike and blank	22/10/21	S	X																	
16																					
17																					
18																					
19																					
20																					
21																					
22																					

Total Counts 1 4 3 6 **PAGE 3 OF 11**

Method of Shipment		<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal		Name	SJ	Signature		Date	10/8/2021	Time		
Eurofins mgt Laboratory Use Only		Received By		(SYD) BNE MEL PER ADL NTL DRW	Signature		Date	22/10/21	Time	5:22PM	Temperature	21.6°C
		Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___	Report No	834488

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ						
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQuls, Custom)		Handed over by							
Contact Name	Sam J	Analyses (Note: where negats are requested, please specify 'Total' or 'Filterer' / SUITE code must be used to submit SUITE phasing)	Suite B7: TRH, BTEXM, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	Email for Invoice	admin@allgeo.com.au
Phone No	430214402		Suite B7: TRH, BTEXM, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	Email for Results	samiones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au
Special Directions			Suite B7: TRH, BTEXM, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	Containers	Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked!)
Purchase Order			Suite B7: TRH, BTEXM, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	<input type="checkbox"/> 1L Plastic <input type="checkbox"/> 250mL Plastic <input type="checkbox"/> 125mL Plastic <input type="checkbox"/> 200mL Amber Glass <input type="checkbox"/> 40mL VOA vial <input type="checkbox"/> 500mL PFAS Bottle <input type="checkbox"/> Jar (Glass or HDPE) <small>Citric / Acetic/AS 1964 - WA Gunbottle</small>	<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input checked="" type="checkbox"/> 5 Day* <input type="checkbox"/> Other ()
Quote ID No		Sample Comments / Dangerous Goods Hazard Warning											

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	Suite B7: TRH, BTEXM, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Sample Comments / Dangerous Goods Hazard Warning		
1	DW13	15/10/21	S									X								X		
2	DW14	15/10/21	S									X								X		
3	DW15	15/10/21	S									X								X		
4	DW16	15/10/21	S									X								X		
5	SW09	15/10/21	W	X	X									X	X	X						
6	SW10	15/10/21	W	X	X									X	X	X						
7	DS11	15/10/21	S	X																X		
8	DS12	15/10/21	S	X																X		
9	TP50 0.0-0.1	15/10/21	S	X	X															X		
10	TP50 0.5-0.6	15/10/21	S									X								X		
11	TP51 0.0-0.1	15/10/21	S	X	X															X		
12	TP51 1.0-1.1	15/10/21	S									X								X		
13	TP51 2.0-2.1	15/10/21	S									X								X		
14	TP51 2.3-2.4	15/10/21	S									X								X		
15	TP52 0.0-0.1	15/10/21	S	X	X	X														X		
16	TP52 0.5-0.6	15/10/21	S			X														X		
17	TP52 1.0-1.1	15/10/21	S			X														X		
18	TP52 1.5-1.6	15/10/21	S			X														X		
19	TP52 2.0-2.1	15/10/21	S			X														X		
20	TP52 2.5-2.6	15/10/21	S			X	X													X		
21	TP53 0.0-0.1	15/10/21	S	X	X															X		
22	TP53 0.3-0.4	15/10/21	S									X								X		
Total Counts				8	6	6	1					9							2	2	2	20

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time			
Eurofins mgt Laboratory Use Only	Received By	A. Bajer	SYD BNE MEL PER ADL NTL DRW	Signature		Date	23/10/21	Time	1540h	Temperature	17.2°C
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___	Report No	836977



CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory
Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2056
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl., Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9500 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL			Project No	13546			Project Manager	Jacob W			Sampler(s)	SJ		
Address	10 WELDER ROAD, SEVEN HILLS NSW			Project Name	Kemps Creek			EDD Format (ESdat, EQuls, Custom)				Handed over by			
Contact Name	Sam J			Note: Where ready-made reagents are required, please specify 'Total' or 'Filtered' (SUITE) code must be used to attract SUITE pricing. Analytes TRH/BTEX, 8 Heavy Metals Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coli and total coliforms - thermotolerant TRH & BTEX VOC HOLD							Email for Invoice	admin@allgeo.com.au			
Phone No	430214402										Email for Results	samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au			
Special Directions											Containers Turnaround Time (TAT) Requirements (Default will be 5 days if not specified) <input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input type="checkbox"/> 4 Day* <input type="checkbox"/> Other ()				
Purchase Order											1L Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) Other + Asbestos AS4564 - WA Guidelines				
Quote ID No													Sample Comments / Dangerous Goods Hazard Warning		

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	TRH/BTEX, 8 Heavy Metals	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other + Asbestos AS4564 - WA Guidelines	Sample Comments / Dangerous Goods Hazard Warning				
23	TP54 0.0-0.1	15/10/21	S		X	X																X				
24	TP54 1.0-1.1	15/10/21	S										X										X			
25	TP54 2.0-2.1	15/10/21	S									X											X			
26	TP54 2.4-2.5	15/10/21	S									X											X			
27	DW17	15/10/21	S									X											X			
28	DW18	15/10/21	S									X											X			
29	DW19	15/10/21	S									X											X			
30	DS13	18/10/21	S		X																		X			
31	DS14	18/10/21	S		X																		X			
32	SW11	18/10/21	w		X	X									X	X	X						X			
33	SW12	18/10/21	w		X	X									X	X	X						X			
34	TP61 0.0-0.1	18/10/21	S	X																			X			
35	TP61 0.5-0.6	18/10/21	S									X											X			
36	TP61 1.0-1.1	18/10/21	S									X											X			
37	TP62 0.0-0.1	18/10/21	S	X			X																X			
38	TP62 0.5-0.6	18/10/21	S				X																X			
39	TP62 1.0-1.1	18/10/21	S				X																X			
40	TP62 1.5-1.6	18/10/21	S				X	X															X			
41	TP62 2.0-2.1	18/10/21	S				X																X			
42	TP62 2.5-2.6	18/10/21	S				X																X			
43	TP63 0.0-0.1	18/10/21	S	X																			X			
44	TP63 0.5-0.6	18/10/21	S									X											X			
Total Counts				3	5	3	6	1				9										2	2	2	20	

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal		Name	SJ		Signature		Date	22/10/2021		Time	
Eurofins mgt Laboratory Use Only	Received By	A.B	SYD BNE MEL PER ADL NTL DRW	Signature		Date	28/10/21	Time	1.54pm	Temperature	17.20c	
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___	Report No	836977	

836978



CHAIN OF CUSTODY RECORD

ABN 50 005 065 521

Sydney Laboratory
Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl., Muramba, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL			Project No	13546			Project Manager	Jacob W			Sampler(s)	SJ							
Address	10 WELDER ROAD, SEVEN HILLS NSW			Project Name	Kemps Creek			EDD Format (ESdat, EQuIS, Custom)				Handed over by								
Contact Name	Sam J			Analyses <small>Note: Where negs are equated, please specify Total or Filtered - SUITE code must be used to allow SUITE print.</small>	Chromium, Arsenic, Copper	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	Email for Invoice	admin@allgeo.com.au				
Phone No	430214402														Email for Results	samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au				
Special Directions															Containers			Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)		
Purchase Order															<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input type="checkbox"/> 5 Day* <input type="checkbox"/> Other ()					
Quote ID No																				

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	Chromium, Arsenic, Copper	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle Jar (Glass or HDPE)	Other (Asbestos AS41654 - WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning			
45	TP63 1.0-1.1	18/10/21	s										X							X				
46	TP64 0.0-0.1	18/10/21	s	X																X				
47	TP64 1.0-1.1	18/10/21	s										X							X				
48	TP64 1.5-1.6	18/10/21	s										X							X				
49	TP65 0.0-0.1	18/10/21	s	X																X				
50	TP65 1.0-1.1	18/10/21	s										X							X				
51	TP65 2.0-2.1	18/10/21	s										X							X				
52	TP66 0.0-0.1	18/10/21	s	X																X				
53	TP66 0.6-0.7	18/10/21	s										X							X				
54	BD4	18/10/21	s		X															X				
55	BT4	18/10/21	s		X															X				
56	SP3-1	18/10/21	s		X	X														X	Please forward to ALS			
57	SP3-2	18/10/21	s		X	X														X				
58	PP9	18/10/21	s	X																X				
59	DR15 0.0-0.1	18/10/21	s		X															X				
60	DR15 0.4-0.5	18/10/21	s										X							X				
61	PP1	18/10/21	s	X																X				
62	PP10	18/10/21	s	X																X				
63	PP11	18/10/21	s	X																X				
64	PP12	18/10/21	s	X																X				
65	SW13	18/10/21	w		X	X									X	X	X							
66	SW14	18/10/21	w		X	X									X	X	X							
Total Counts				8	7	4						7								2	2	2	20	

Method of Shipment	<input checked="" type="checkbox"/> Courier (#)	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time	
Eurofins mgt Laboratory Use Only	Received By	A.B	SYD BNE MEL PER ADL NTL DRW	Signature		Date	28/10/21	Time	1:54	Temperature	12.2°C
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___	Report No	



CHAIN OF CUSTODY RECORD

ABN 50 005 065 521

Sydney Laboratory
Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl., Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ	
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQUIS, Custom)		Handed over by		
Contact Name	Sam J	Analytes <small>(Note: Where metals are required, please specify Total or Filterable - SUITE code must be used to attach SUITE pricing.)</small> TRH/BTEXN, 8 HM Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coli and total coliforms - thermotolerant TRH & BTEX VOC HOLD				Email for Invoice	admin@allgeo.com.au	
Phone No	430214402						Email for Results	samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au
Special Directions							Containers	Turnaround Time (TAT) Requirements (Default will be 5 days, if not ticked)
Purchase Order							1L Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) <small>Other (Agencies AS4564 - WA Guidelines)</small>	<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input checked="" type="checkbox"/> 5 Day* <input type="checkbox"/> Other ()
Quote ID No							Sample Comments / Dangerous Goods Hazard Warning	

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	TRH/BTEXN, 8 HM	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Agencies AS4564 - WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning		
67	DS15	18/10/21	S		X																			
68	DS16	18/10/21	S		X																			
69	DW20	18/10/21	S									X												
70	DW21	18/10/21	S									X												
71	TP141 0.0-0.1	18/10/21	S		X	X						X												
72	TP141 0.5-0.6	18/10/21	S									X												
73	TP141 1.5-1.6	18/10/21	S									X												
74	TP142 0.0-0.1	18/10/21	S									X												
75	TP142 0.5-0.6	18/10/21	S		X	X						X												
76	TP142 1.5-1.6	18/10/21	S									X												
77	DR16 0.0-0.1	19/10/21	S		X							X												
78	DR16 1.0-1.1	19/10/21	S									X												
79	DR16 2.0-2.1	19/10/21	S									X												
80	DR17 0.0-0.1	19/10/21	S		X							X												
81	DR17 1.0-1.1	19/10/21	S									X												
82	TP70 0.0-0.1	19/10/21	S	X							X													
83	TP70 0.3-0.4	19/10/21	S									X												
84	TP71 0.0-0.1	19/10/21	S	X							X													
85	TP71 0.3-0.4	19/10/21	S									X												
86	SW15	19/10/21	w		X	X								X	X	X								
87	SW16	19/10/21	w		X	X								X	X	X								
88	DS17	19/10/21	S		X																			X

Total Counts				2	9	4					2	11												
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Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time	
Eurofins mgt Laboratory Use Only	Received By	A.O	SYD BNE MEL PER ADL NTL DRW	Signature		Date	23/10/21	Time	1:54
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___

236977
826978



CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory
Unit F3 BldF, 16 Mars Rd, Lane Cove West, NSW 2086
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl, Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQuIS, Custom)		Handed over by	
Contact Name	Sam J	Analyses <small>(Note: Where metals are requested, please specify 'Total' or 'Filtered') SUITE code must be used to attach SUITE pricing.</small>	OCF, 8 Heavy Metals	Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coli and total coliforms - thermotolerant TRH & BTEX VOC HOLD		Email for Invoice	admin@allgeo.com.au
Phone No	430214402		Email for Results			samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au	
Special Directions			Containers			Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)	
Purchase Order			<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input checked="" type="checkbox"/> 5 Day* <input type="checkbox"/> Other ()				
Quote ID No							

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	OCF	8 Heavy Metals	EC and pH	L2 Aggressivity Suite	Suite BH19D	E.Coli	TRH & BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Acceptance AS4164 - WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning	
89	DS18	19/10/21	S		X																	
90	DW22	19/10/21	S		X	X																
91	DW23	19/10/21	S		X	X																
92	TP78 0.0-0.1	19/10/21	S	X																		
93	TP79 0.0-0.1	19/10/21	S									X										
94	TP80 0.0-0.1	19/10/21	S	X																		
95	TP81 0.0-0.1	19/10/21	S									X										
96	TP82 0.0-0.1	19/10/21	S	X																		
97	TP83 0.0-0.1	19/10/21	S									X										
98	TP84 0.0-0.1	19/10/21	S	X																		
99	TP85 0.0-0.1	19/10/21	S									X										
100	TP86 0.0-0.1	19/10/21	S	X		X																
101	TP87 0.0-0.1	19/10/21	S									X										
102	TP88 0.0-0.1	19/10/21	S	X																		
103	TP89 0.0-0.1	19/10/21	S									X										
104	TP90 0.0-0.1	19/10/21	S	X																		
105	TP91 0.0-0.1	19/10/21	S									X										
106	TP92 0.0-0.1	19/10/21	S	X																		
107	TP93 0.0-0.1	19/10/21	S									X										
108	TP94 0.0-0.1	19/10/21	S	X																		
109	TP95 0.0-0.1	19/10/21	S		X	X																
110	TP96 0.0-0.1	20/10/21	S	X																		
Total Counts				10	4	3	1				8											22

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time		
Eurofins mgt Laboratory Use Only	Received By	SYD BNE MEL PER ADL NTL DRW	Signature		Date	23/10/21	Time	1:52	Temperature	17.2°C
	Received By	SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___	Report No	836977 836978

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.



CHAIN OF CUSTODY RECORD

ABN 50 005 065 521

Sydney Laboratory

Unit F3 Bid.F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

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Unit 1, 21 Smallwood Pl., Murarrie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

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2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQuIS, Custom)		Handed over by	
Contact Name	Sam J	Analyses <small>(Note: Where needs are requested, please specify "Total" or "Filtered") SUITE code must be used to attach SUITE printing.</small>	OCF, 8 Heavy Metals Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coli and total coliforms - thermotolerant TRH & BTEX VOC HOLD	Email for Invoice admin@allgeo.com.au Email for Results samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au	Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked) <input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input type="checkbox"/> 4 Day* <input type="checkbox"/> Other ()	Containers 1L Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) <small>Other (Accebas AS4064 WA Guidelines)</small>	
Phone No	430214402						
Special Directions							
Purchase Order							
Quote ID No							

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	OCF	Heavy Metals	EC and pH	L2 Aggressivity Suite	Suite BH19D	E.Coli	TRH & BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Sample Comments / Dangerous Goods Hazard Warning	
133	TP119 0.0-0.1	20/10/21	s									X								X	
134	TP120 0.0-0.1	20/10/21	s	X	X	X														X	
135	TP121 0.0-0.1	20/10/21	s									X								X	
136	TP122 0.0-0.1	20/10/21	s	X																X	
137	TP123 0.0-0.1	20/10/21	s									X								X	
138	TP124 0.0-0.1	20/10/21	s	X																X	
139	TP125 0.0-0.1	20/10/21	s	X	X															X	
140	TP126 0.0-0.1	20/10/21	s	X																X	
141	TP127 0.0-0.1	21/10/21	s									X								X	
142	TP128 0.0-0.1	21/10/21	s	X																X	
143	TP129 0.0-0.1	21/10/21	s									X								X	
144	TP130 0.0-0.1	21/10/21	s	X		X														X	
145	TP131 0.0-0.1	21/10/21	s									X								X	
146	TP132 0.0-0.1	21/10/21	s	X																X	
147	TP133 0.0-0.1	21/10/21	s									X								X	
148	TP134 0.0-0.1	21/10/21	s	X																X	
149	TP135 0.0-0.1	21/10/21	s									X								X	
150	TP136 0.0-0.1	21/10/21	s	X																X	
151	TP137 0.0-0.1	21/10/21	s			X						X								X	
152	TP138 0.0-0.1	21/10/21	s	X																X	
153	TP139 0.0-0.1	21/10/21	s									X								X	
154	TP78 0.2-0.3	19/10/21	s									X								X	
Total Counts				9	2	2	3					11								22	

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time		
Eurofins mgt Laboratory Use Only	Received By	A.B	SYD BNE MEL PER ADL NTL DRW	Signature		Date	22/10/21	Time	15:42	
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___	
									Report No	836977 836978

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.



CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory

Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory

Unit 1, 21 Smallwood Pl., Murarie, QLD 5172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory

Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9800 EnviroSampleWA@eurofins.com

Melbourne Laboratory

2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ	
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQulS, Custom)		Handed over by		
Contact Name	Sam J	Analyses <small>(While these metals are requested, please specify "Total" or "Filtered" SUITE code must be used to attract SUITE pricing.)</small> OCp, 8 Heavy Metals Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coli and total coliforms - thermotolerant				Email for Invoice	admin@allgeo.com.au	
Phone No	430214402						Email for Results	samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au
Special Directions							Containers	Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)
Purchase Order							1L Plastic	<input type="checkbox"/> Overnight (9am)*
Quote ID No							250mL Plastic	<input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day*

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	OCp, 8 Heavy Metals	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Acceptance AS1064 - WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning	
155	TP79 0.2-0.3	19/10/21	s										X								X		
156	TP80 0.2-0.3	19/10/21	s										X									X	
157	TP81 0.2-0.3	19/10/21	s										X									X	
158	TP82 0.2-0.3	19/10/21	s										X									X	
159	TP83 0.2-0.3	19/10/21	s										X									X	
160	TP84 0.2-0.3	19/10/21	s										X									X	
161	TP85 0.2-0.3	19/10/21	s										X									X	
162	TP86 0.5-0.6	19/10/21	s				X	X					X									X	
163	TP87 0.2-0.3	19/10/21	s										X									X	
164	TP88 0.2-0.3	19/10/21	s										X									X	
165	TP89 0.2-0.3	19/10/21	s										X									X	
166	TP90 0.2-0.3	19/10/21	s										X									X	
167	TP91 0.2-0.3	19/10/21	s										X									X	
168	TP92 0.2-0.3	19/10/21	s										X									X	
169	TP93 0.2-0.3	19/10/21	s										X									X	
170	TP94 0.2-0.3	19/10/21	s										X									X	
171	TP95 0.2-0.3	19/10/21	s										X									X	
172	TP96 0.2-0.3	20/10/21	s										X									X	
173	TP97 0.2-0.3	20/10/21	s										X									X	
174	TP98 0.2-0.3	20/10/21	s										X									X	
175	TP99 0.2-0.3	20/10/21	s										X									X	
176	TP100 0.2-0.3	20/10/21	s										X									X	
Total Counts							1	1					21									22	

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time		
Eurofins mgt Laboratory Use Only	Received By	A.B	SYD BNE MEL PER ADL NTL DRW	Signature		Date	23/10/21	Time	1:50	
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___	
									Report No	836978



CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory

Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory

Unit 1, 21 Smallwood Pl., Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory

Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory

2 Kingston Town Close, Oakleigh, VIC 3168
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ	
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQuIS, Custom)		Handed over by		
Contact Name	Sam J	Analyses (Note: Where measurable, reagent grade specific "Total" or "Filtered") SUITE code must be used to avoid SUITE pricing. OCF, 8 Heavy Metals Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coli and total coliforms - thermotolerant TRH & BTEX VOC HOLD				Email for Invoice	admin@allgeo.com.au	
Phone No	430214402						Email for Results	samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au
Special Directions							Containers	Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)
Purchase Order							<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input type="checkbox"/> 5 Day* <input type="checkbox"/> Other ()	
Quote ID No						1L Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) Other (Asbestos AS4164 WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning	

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	OCF	Heavy Metals	BTEXN	PAH	Metals	Suite B13	EC and pH	L2 Aggressivity	Suite BH19D	E.Coli	TRH & BTEX	VOC	HOLD	Containers	Sample Comments / Dangerous Goods Hazard Warning
177	TP101 0.5-0.6	20/10/21	s							x							X	
178	TP102 0.2-0.3	20/10/21	s													x	X	
179	TP103 0.2-0.3	20/10/21	s													x	X	
180	TP104 0.2-0.3	20/10/21	s													x	X	
181	TP105 0.2-0.3	20/10/21	s													x	X	
182	TP106 0.2-0.3	20/10/21	s													x	X	
183	TP107 0.2-0.3	20/10/21	s													x	X	
184	TP108 0.2-0.3	20/10/21	s													x	X	
185	TP109 0.2-0.3	20/10/21	s													x	X	
186	TP110 0.2-0.3	20/10/21	s													x	X	
187	TP111 0.2-0.3	20/10/21	s													x	X	
188	TP112 0.2-0.3	20/10/21	s													x	X	
189	TP113 0.2-0.3	20/10/21	s													x	X	
190	TP114 0.2-0.3	20/10/21	s													x	X	
191	TP115 0.2-0.3	20/10/21	s													x	X	
192	TP116 0.2-0.3	20/10/21	s													x	X	
193	TP117 0.2-0.3	20/10/21	s													x	X	
194	TP118 0.2-0.3	20/10/21	s													x	X	
195	TP119 0.2-0.3	20/10/21	s													x	X	
196	TP120 0.5-0.6	20/10/21	s						x								X	
197	TP121 0.2-0.3	20/10/21	s													x	X	
198	TP122 0.2-0.3	20/10/21	s													x	X	
Total Counts					1	1									20		22	

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time	
Eurofins mgt Laboratory Use Only	Received By	A.O	SYD BNE MEL PER ADL NTL DRW	Signature		Date	23/10/21	Time	1:55pm
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	1/1/	Time	
Temperature									12.20c
Report No									836978

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.



CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory
Unit F3 Bld F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl, Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQuIS, Custom)		Handed over by	
Contact Name	Sam J	Analyses <small>(Note: Where metals are requested, please specify "Total" or "Filterable" / SUITE code must be used to attract SUITE pricing)</small> OCF, & Heavy Metals Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coli and total coliforms - thermotolerant TRH & BTEX VOC HOLD				Email for Invoice	admin@allgeo.com.au
Phone No	430214402					Email for Results	samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au
Special Directions						Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked) <input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input checked="" type="checkbox"/> 5 Day* <input type="checkbox"/> Other ()	
Purchase Order						Containers 1L Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) <small>Other: Aqueous AS-1664 WA Guidelines</small>	
Quote ID No							

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	OCF, & Heavy Metals	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	Containers	Sample Comments / Dangerous Goods Hazard Warning
199	TP123 0.2-0.3	20/10/21	s										X		
200	TP124 0.2-0.3	20/10/21	s										X		
201	TP125 0.2-0.3	20/10/21	s										X		
202	TP126 0.2-0.3	20/10/21	s										X		
203	TP127 0.2-0.3	21/10/21	s										X		
204	TP128 0.2-0.3	21/10/21	s										X		
205	TP129 0.2-0.3	21/10/21	s										X		
206	TP130 0.5-0.6	21/10/21	s				X						X		
207	TP131 0.2-0.3	21/10/21	s										X		
208	TP132 0.2-0.3	21/10/21	s										X		
209	TP133 0.2-0.3	21/10/21	s										X		
210	TP134 0.2-0.3	21/10/21	s										X		
211	TP135 0.2-0.3	21/10/21	s										X		
212	TP136 0.2-0.3	21/10/21	s										X		
213	TP137 0.5-0.6	21/10/21	s				X						X		
214	TP138 0.2-0.3	21/10/21	s										X		
215	TP139 0.2-0.3	21/10/21	s										X		
216	SW17	21/10/21	w		X	X								X	
217	SW18	21/10/21	w		X	X							X	X	X
218	SW19	21/10/21	w		X	X									
219	SW20	21/10/21	w		X	X									
220	DS19	21/10/21	s		X									X	
Total Counts				5	4	2						15		2 2 2 18	

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time	
Eurofins mgt Laboratory Use Only	Received By	SYD BNE MEL PER ADL NTL DRW	Signature	Date	22/10/21	Time	7:42	Temperature	12.2°C
	Received By	SYD BNE MEL PER ADL NTL DRW	Signature	Date	1/1/	Time		Report No	836977 836912

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CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory
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02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl, Murarrie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQUIS, Custom)		Handed over by	
Contact Name	Sam J	Analyses <small>(Note: Where metals are requested, please specify "Total" or "Filtered" - SUITE code must be used to attract SUITE pricing.)</small>	Suite B7: TRH, BTEXN, PAH, Metals			Email for Invoice	admin@allgeo.com.au
Phone No	430214402		Suite B13: OCP, PCB			Email for Results	samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au
Special Directions			EC and pH			Containers	Turnaround Time (TAT) Requirements (Default: will be 5 days if not ticked)
Purchase Order			L2 Aggressivity Suite				
Quote ID No			Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P			1L Plastic	
			E.Coli and total coliforms - thermotolerant			250mL Plastic	
						125mL Plastic	
						200mL Amber Glass	
						40mL YOA vial	
						500mL PFAS Bottle	
						Jar (Glass or HDPE)	
						Other (Asbestos AS-4964, WA Guidelines)	

Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL YOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos AS-4964, WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning
DS20	20/10/21	S	X																X	
DS21	20/10/21	S	X																X	
DS22	20/10/21	S	X																X	
DW24	20/10/21	S									X								X	
DW25	21/10/21	S									X								X	
DW26	21/10/21	S									X								X	
DW27	21/10/21	S									X								X	
DW28	21/10/21	S									X								X	
DW29	21/10/21	S									X								X	
Trip spike & blank x 5	15,18,19,20, & 21/10/2021	S							X						X					
BD5	21/10/21	S		X															X	
BT5	21/10/21	S		X															X	Please forward to ALS
TP86 1.0-1.1	19/10/21	S			X														X	
TP86 1.5-1.6	19/10/21	S			X														X	
TP86 2.0-2.1	19/10/21	S			X														X	
TP89 2.5-2.6	19/10/21	S			X														X	
TP101 1.0-1.1	20/10/21	S			X	X													X	
TP120 1.0-1.1	20/10/21	S			X														X	
TP120 1.5-1.6	20/10/21	S			X														X	
TP120 2.0-2.1	20/10/21	S			X														X	
TP120 2.5-2.6	20/10/21	S			X	X													X	
TP130 1.0-1.1	21/10/21	S			X														X	
Total Counts				3	2	10	2		1	6							1	21		

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time	
Eurofins mgt Laboratory Use Only	Received By	4.5	SYD BNE MEL PER ADL NTL DRW	Signature		Date	28/10/21	Time	1:00
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	__/__/__	Time	__:

836117
836118

CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory
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Melbourne Laboratory
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03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ	
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek			Handed over by		
Contact Name	Sam J	Analyses *Note: Where means are requested, please specify "Jar" or "Filterless" SUITE *CO2 must be used for all acid SUITE pricing.	Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coll and total coliforms - thermotolerant	BTEX VOC HOLD	Email for Invoice	admin@allgeo.com.au		
Phone No	430214402				Email for Results	samjones@allgeo.com.au , enviro@allgeo.com.au & jacob.walker@allgeo.com.au		
Special Directions					Containers		Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)	
Purchase Order					<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input checked="" type="checkbox"/> 5 Day* <input type="checkbox"/> Other ()			
Quote ID No						Sample Comments / Dangerous Goods Hazard Warning		

Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	Total Counts		Other (Asbestos AS4964 - WA Guidelines)	
TP130 1.5-1.6	21/10/21	S	6	2		X
TP130 2.0-2.1	21/10/21	S				X
TP137 1.0-1.1	21/10/21	S				X
TP137 1.5-1.6	21/10/21	S				X
TP137 2.0-2.1	21/10/21	S				X
TP137 2.5-2.6	21/10/21	S				X

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time		
Eurofins mgt	Received By	SYD BNE MEL PER ADL NTL DRW	Signature		Date	20/10/21	Time	1:34pm	Temperature	12.2°C
Laboratory Use Only	Received By	SYD BNE MEL PER ADL NTL DRW	Signature		Date	1/1/	Time		Report No	8360177 8360118

Delivery of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.

Alliance Geotechnical
10 Welder Road
Seven Hills
NSW 2147



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: **Jacob Walker**

Report **836977-W**
 Project name **KEMPS CREEK**
 Project ID **13546**
 Received Date **Oct 28, 2021**

Client Sample ID			SW09 Water S21-No02556 Oct 15, 2021	SW10 Water S21-No02557 Oct 15, 2021	SW11 Water S21-No02572 Oct 18, 2021	SW12 Water S21-No02573 Oct 18, 2021
Sample Matrix	LOR	Unit				
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	0.2	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	0.3	< 0.1	< 0.1
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	0.2	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	0.3	< 0.1	< 0.1
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	114	111	111	113
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g,h,i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			SW09 Water S21-No02556 Oct 15, 2021	SW10 Water S21-No02557 Oct 15, 2021	SW11 Water S21-No02572 Oct 18, 2021	SW12 Water S21-No02573 Oct 18, 2021
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	91	103	102	100
p-Terphenyl-d14 (surr.)	1	%	Q09INT	Q09INT	Q09INT	Q09INT
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
4,4'-DDD	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4,4'-DDE	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4,4'-DDT	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Toxaphene	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Dibutylchloroendate (surr.)	1	%	Q09INT	149	Q09INT	Q09INT
Tetrachloro-m-xylene (surr.)	1	%	Q09INT	139	Q09INT	Q09INT
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1221	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1232	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1242	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1248	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1254	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1260	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Total PCB*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Dibutylchloroendate (surr.)	1	%	Q09INT	149	Q09INT	Q09INT
Tetrachloro-m-xylene (surr.)	1	%	Q09INT	139	Q09INT	Q09INT

Client Sample ID			SW09 Water S21-No02556 Oct 15, 2021	SW10 Water S21-No02557 Oct 15, 2021	SW11 Water S21-No02572 Oct 18, 2021	SW12 Water S21-No02573 Oct 18, 2021
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.001	mg/L	0.003	0.029	0.013	0.031
Cadmium	0.0002	mg/L	< 0.0002	0.0003	< 0.0002	0.0004
Chromium	0.001	mg/L	0.006	0.092	0.050	0.11
Copper	0.001	mg/L	0.010	0.21	0.11	0.20
Lead	0.001	mg/L	0.006	0.18	0.093	0.17
Mercury	0.0001	mg/L	< 0.0001	0.0001	< 0.0001	0.0002
Nickel	0.001	mg/L	0.006	0.078	0.068	0.10
Zinc	0.005	mg/L	0.020	0.52	0.22	1.5

Client Sample ID			SW13 Water S21-No02593 Oct 18, 2021	SW14 Water S21-No02594 Oct 18, 2021	SW15 Water S21-No02603 Oct 19, 2021	SW16 Water S21-No02604 Oct 19, 2021
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	0.41	< 0.05	0.19
TRH C15-C28	0.1	mg/L	< 0.1	0.6	0.2	0.2
TRH C29-C36	0.1	mg/L	0.1	0.2	0.1	0.2
TRH C10-C36 (Total)	0.1	mg/L	0.1	1.21	0.3	0.59
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	0.45	< 0.05	0.18
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	0.45	< 0.05	0.18
TRH >C16-C34	0.1	mg/L	0.1	0.6	0.2	0.3
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	0.1	1.05	0.2	0.48
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	110	114	115	114
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g,h,i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			SW13 Water S21-No02593 Oct 18, 2021	SW14 Water S21-No02594 Oct 18, 2021	SW15 Water S21-No02603 Oct 19, 2021	SW16 Water S21-No02604 Oct 19, 2021
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	99	118	107	106
p-Terphenyl-d14 (surr.)	1	%	Q09INT	Q09INT	Q09INT	Q09INT
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
4.4'-DDD	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4.4'-DDE	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4.4'-DDT	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Toxaphene	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Dibutylchloroendate (surr.)	1	%	Q09INT	Q09INT	Q09INT	Q09INT
Tetrachloro-m-xylene (surr.)	1	%	Q09INT	Q09INT	Q09INT	Q09INT
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1221	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1232	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1242	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1248	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1254	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1260	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Total PCB*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Dibutylchloroendate (surr.)	1	%	Q09INT	Q09INT	Q09INT	Q09INT
Tetrachloro-m-xylene (surr.)	1	%	Q09INT	Q09INT	Q09INT	Q09INT

Client Sample ID			SW13 Water	SW14 Water	SW15 Water	SW16 Water
Sample Matrix			S21-No02593	S21-No02594	S21-No02603	S21-No02604
Eurofins Sample No.			Oct 18, 2021	Oct 18, 2021	Oct 19, 2021	Oct 19, 2021
Date Sampled						
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.001	mg/L	0.003	0.003	0.002	0.003
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium	0.001	mg/L	0.003	0.003	0.002	0.001
Copper	0.001	mg/L	0.011	0.007	0.007	0.006
Lead	0.001	mg/L	0.007	0.004	0.008	0.006
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	0.007	0.004	0.003	0.003
Zinc	0.005	mg/L	0.025	0.020	0.024	0.021

Client Sample ID			SW17 Water	SW18 Water	SW19 Water	SW20 Water
Sample Matrix			S21-No02649	S21-No02650	S21-No02651	S21-No02652
Eurofins Sample No.			Oct 21, 2021	Oct 21, 2021	Oct 21, 2021	Oct 21, 2021
Date Sampled						
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	0.21	< 0.05	< 0.05	0.11
TRH C15-C28	0.1	mg/L	0.4	0.2	< 0.1	0.1
TRH C29-C36	0.1	mg/L	0.2	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.81	0.2	< 0.1	0.21
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	0.16	< 0.05	< 0.05	0.07
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	0.16	< 0.05	< 0.05	0.07
TRH >C16-C34	0.1	mg/L	0.6	0.2	< 0.1	0.2
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	0.76	0.2	< 0.1	0.27
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	121	114	111	108
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g,h,i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			SW17 Water S21-No02649 Oct 21, 2021	SW18 Water S21-No02650 Oct 21, 2021	SW19 Water S21-No02651 Oct 21, 2021	SW20 Water S21-No02652 Oct 21, 2021
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	122	89	93	INT
p-Terphenyl-d14 (surr.)	1	%	Q09INT	Q09INT	Q09INT	Q09INT
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
4.4'-DDD	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4.4'-DDE	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
4.4'-DDT	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Toxaphene	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
Dibutylchloroendate (surr.)	1	%	Q09INT	Q09INT	Q09INT	Q09INT
Tetrachloro-m-xylene (surr.)	1	%	Q09INT	140	135	Q09INT
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1221	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1232	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1242	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1248	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1254	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Aroclor-1260	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Total PCB*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Dibutylchloroendate (surr.)	1	%	Q09INT	Q09INT	Q09INT	Q09INT
Tetrachloro-m-xylene (surr.)	1	%	Q09INT	140	135	Q09INT

Client Sample ID			SW17 Water	SW18 Water	SW19 Water	SW20 Water
Sample Matrix			S21-No02649	S21-No02650	S21-No02651	S21-No02652
Eurofins Sample No.			Oct 21, 2021	Oct 21, 2021	Oct 21, 2021	Oct 21, 2021
Date Sampled						
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.001	mg/L	0.031	0.007	0.002	0.006
Cadmium	0.0002	mg/L	0.0008	< 0.0002	< 0.0002	< 0.0002
Chromium	0.001	mg/L	0.13	0.007	0.002	0.008
Copper	0.001	mg/L	0.24	0.020	0.007	0.021
Lead	0.001	mg/L	0.23	0.021	0.005	0.015
Mercury	0.0001	mg/L	0.0005	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	0.11	0.010	0.003	0.012
Zinc	0.005	mg/L	0.51	0.038	0.010	0.044

Sample History

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

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 03, 2021	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 01, 2021	7 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 01, 2021	14 Days
Eurofins Suite B6			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 03, 2021	7 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 04, 2021	28 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Nov 03, 2021	7 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 03, 2021	7 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 03, 2021	7 Days

Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																		
1	SW09	Oct 15, 2021		Water	S21-No02556									X				X					
2	SW10	Oct 15, 2021		Water	S21-No02557									X				X					
3	DS11	Oct 15, 2021		Soil	S21-No02558												X	X					
4	DS12	Oct 15, 2021		Soil	S21-No02559												X	X					
5	TP50_0.0-0.1	Oct 15, 2021		Soil	S21-No02560									X			X	X					
6	TP51_0.0-0.1	Oct 15, 2021		Soil	S21-No02561									X			X	X					
7	TP52_0.0-0.1	Oct 15, 2021		Soil	S21-No02562			X			X			X			X	X					
8	TP52_0.5-0.6	Oct 15, 2021		Soil	S21-No02563			X			X						X						
9	TP52_1.0-1.1	Oct 15, 2021		Soil	S21-No02564			X			X						X						

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Company Name: Alliance Geotechnical
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Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
10	TP52_1.5-1.6	Oct 15, 2021		Soil	S21-No02565			X			X						X						
11	TP52_2.0-2.1	Oct 15, 2021		Soil	S21-No02566			X			X						X						
12	TP52_2.5-2.6	Oct 15, 2021		Soil	S21-No02567										X		X						
13	TP53_0.0-0.1	Oct 15, 2021		Soil	S21-No02568									X			X	X					
14	TP54_0.0-0.1	Oct 15, 2021		Soil	S21-No02569									X			X	X					
15	DS13	Oct 18, 2021		Soil	S21-No02570												X	X					
16	DS14	Oct 18, 2021		Soil	S21-No02571												X	X					
17	SW11	Oct 18, 2021		Water	S21-No02572									X				X					
18	SW12	Oct 18, 2021		Water	S21-No02573									X				X					
19	TP61_0.0-0.1	Oct 18, 2021		Soil	S21-No02574												X		X				
20	TP62_0.0-0.1	Oct 18, 2021		Soil	S21-No02575			X			X						X		X				

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Company Name: Alliance Geotechnical
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Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
21	TP62_0.5-0.6	Oct 18, 2021		Soil	S21-No02576			X			X						X						
22	TP62_1.0-1.1	Oct 18, 2021		Soil	S21-No02577			X			X						X						
23	TP62_1.5-1.6	Oct 18, 2021		Soil	S21-No02578										X		X						
24	TP62_2.0-2.1	Oct 18, 2021		Soil	S21-No02579			X			X						X						
25	TP62_2.5-2.6	Oct 18, 2021		Soil	S21-No02580			X			X						X						
26	TP64_0.0-0.1	Oct 18, 2021		Soil	S21-No02581	X	X		X								X						
27	TP65_0.0-0.1	Oct 18, 2021		Soil	S21-No02582	X	X		X								X						
28	TP66_0.0-0.1	Oct 18, 2021		Soil	S21-No02583	X	X		X								X						
29	BD4	Oct 18, 2021		Soil	S21-No02584												X	X					
30	SP3-1	Oct 18, 2021		Soil	S21-No02585									X			X	X					
31	SP3-2	Oct 18, 2021		Soil	S21-No02586									X			X	X					

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Company Name: Alliance Geotechnical
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Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
32	PP9	Oct 18, 2021		Soil	S21-No02587	X	X		X								X						
33	DR15 0.0-0.1	Oct 18, 2021		Soil	S21-No02588												X	X					
34	PP1	Oct 18, 2021		Soil	S21-No02589	X	X		X								X						
35	PP10	Oct 18, 2021		Soil	S21-No02590	X	X		X								X						
36	PP11	Oct 18, 2021		Soil	S21-No02591	X	X		X								X						
37	PP12	Oct 18, 2021		Soil	S21-No02592	X	X		X								X						
38	SW13	Oct 18, 2021		Water	S21-No02593									X				X					
39	SW14	Oct 18, 2021		Water	S21-No02594									X				X					
40	DS15	Oct 18, 2021		Soil	S21-No02595												X	X					
41	DS16	Oct 18, 2021		Soil	S21-No02596												X	X					
42	TP141_0.0-0.1	Oct 18, 2021		Soil	S21-No02597									X			X	X					

ABN: 50 005 085 521

ABN: 91 05 0159 898

NZBN: 9429046024954

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Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
43	TP142_0.5-0.6	Oct 18, 2021		Soil	S21-No02598									X			X	X					
44	DR16 0.0-0.1	Oct 19, 2021		Soil	S21-No02599												X	X					
45	DR17 0.0-0.1	Oct 19, 2021		Soil	S21-No02600												X	X					
46	TP70_0.0-0.1	Oct 19, 2021		Soil	S21-No02601											X	X		X				
47	TP71_0.0-0.1	Oct 19, 2021		Soil	S21-No02602											X	X		X				
48	SW15	Oct 19, 2021		Water	S21-No02603								X					X					
49	SW16	Oct 19, 2021		Water	S21-No02604								X					X					
50	DS17	Oct 19, 2021		Soil	S21-No02605												X	X					
51	DS18	Oct 19, 2021		Soil	S21-No02606												X	X					
52	DW22	Oct 19, 2021		Soil	S21-No02607									X			X	X					
53	DW23	Oct 19, 2021		Soil	S21-No02608									X			X	X					

ABN: 50 005 085 521

ABN: 91 05 0159 898

NZBN: 9429046024954

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Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melbourne Laboratory - NATA # 1261 Site # 1254																								
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																								
Mayfield Laboratory - NATA # 1261 Site # 25079																								
Perth Laboratory - NATA # 2377 Site # 2370																								
External Laboratory																								
54	TP78_0.0-0.1	Oct 19, 2021		Soil	S21-No02609							X	X				X							
55	TP80_0.0-0.1	Oct 19, 2021		Soil	S21-No02610							X	X				X							
56	TP82_0.0-0.1	Oct 19, 2021		Soil	S21-No02611							X	X				X							
57	TP84_0.0-0.1	Oct 19, 2021		Soil	S21-No02612							X	X				X							
58	TP86_0.0-0.1	Oct 19, 2021		Soil	S21-No02613		X			X	X	X	X				X							
59	TP88_0.0-0.1	Oct 19, 2021		Soil	S21-No02614							X	X				X							
60	TP90_0.0-0.1	Oct 19, 2021		Soil	S21-No02615							X	X				X							
61	TP92_0.0-0.1	Oct 19, 2021		Soil	S21-No02616							X	X				X							
62	TP94_0.0-0.1	Oct 19, 2021		Soil	S21-No02617							X	X				X							
63	TP95_0.0-0.1	Oct 19, 2021		Soil	S21-No02618									X			X	X						
64	TP96_0.0-0.1	Oct 20, 2021		Soil	S21-No02619							X	X				X							

ABN: 50 005 085 521

ABN: 91 05 0159 898

NZBN: 9429046024954

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
65	TP98_0.0-0.1	Oct 20, 2021		Soil	S21-No02620							X	X				X						
66	TP100_0.0-0.1	Oct 20, 2021		Soil	S21-No02621							X	X				X						
67	TP101_0.0-0.1	Oct 20, 2021		Soil	S21-No02622		X			X							X						
68	TP102_0.0-0.1	Oct 20, 2021		Soil	S21-No02623							X	X				X						
69	TP104_0.0-0.1	Oct 20, 2021		Soil	S21-No02624							X	X				X						
70	TP106_0.0-0.1	Oct 20, 2021		Soil	S21-No02625							X	X				X						
71	TP108_0.0-0.1	Oct 20, 2021		Soil	S21-No02626							X	X				X						
72	TP110_0.0-0.1	Oct 20, 2021		Soil	S21-No02627							X	X				X						
73	TP112_0.0-0.1	Oct 20, 2021		Soil	S21-No02628							X	X				X						
74	TP114_0.0-0.1	Oct 20, 2021		Soil	S21-No02629							X	X				X						
75	TP116_0.0-0.1	Oct 20, 2021		Soil	S21-No02630							X	X				X						

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
76	TP118_0.0-0.1	Oct 20, 2021		Soil	S21-No02631							X	X				X						
77	TP120_0.0-0.1	Oct 20, 2021		Soil	S21-No02632		X			X				X			X	X					
78	TP122_0.0-0.1	Oct 20, 2021		Soil	S21-No02633							X	X				X						
79	TP124_0.0-0.1	Oct 20, 2021		Soil	S21-No02634							X	X				X						
80	TP125_0.0-0.1	Oct 20, 2021		Soil	S21-No02635									X			X	X					
81	TP126_0.0-0.1	Oct 20, 2021		Soil	S21-No02636							X	X				X						
82	TP128_0.0-0.1	Oct 21, 2021		Soil	S21-No02637							X	X				X						
83	TP130_0.0-0.1	Oct 21, 2021		Soil	S21-No02638		X			X	X	X	X				X						
84	TP132_0.0-0.1	Oct 21, 2021		Soil	S21-No02639							X	X				X						
85	TP134_0.0-0.1	Oct 21, 2021		Soil	S21-No02640							X	X				X						
86	TP136_0.0-0.1	Oct 21, 2021		Soil	S21-No02641							X	X				X						

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
87	TP137_0.0-0.1	Oct 21, 2021		Soil	S21-No02642			X			X						X						
88	TP138_0.0-0.1	Oct 21, 2021		Soil	S21-No02643							X	X				X						
89	TP86_0.5-0.6	Oct 19, 2021		Soil	S21-No02644										X		X						
90	TP101_0.5-0.6	Oct 20, 2021		Soil	S21-No02645			X			X						X						
91	TP120_0.5-0.6	Oct 20, 2021		Soil	S21-No02646									X			X						
92	TP130_0.5-0.6	Oct 21, 2021		Soil	S21-No02647			X			X						X						
93	TP137_0.5-0.6	Oct 21, 2021		Soil	S21-No02648			X			X						X						
94	SW17	Oct 21, 2021		Water	S21-No02649									X				X					
95	SW18	Oct 21, 2021		Water	S21-No02650									X				X					
96	SW19	Oct 21, 2021		Water	S21-No02651									X				X					
97	SW20	Oct 21, 2021		Water	S21-No02652									X				X					

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
98	DS19	Oct 21, 2021		Soil	S21-No02653												X	X					
99	DS20	Oct 20, 2021		Soil	S21-No02654												X	X					
100	DS21	Oct 20, 2021		Soil	S21-No02655												X	X					
101	DS22	Oct 20, 2021		Soil	S21-No02656												X	X					
102	BD5	Oct 21, 2021		Soil	S21-No02657									X			X						
103	TP86_1.0-1.1	Oct 19, 2021		Soil	S21-No02658		X			X							X						
104	TP86_1.5-1.6	Oct 19, 2021		Soil	S21-No02659		X			X							X						
105	TP86_2.0-2.1	Oct 19, 2021		Soil	S21-No02660		X			X							X						
106	TP89_2.5-2.6	Oct 19, 2021		Soil	S21-No02661		X			X							X						
107	TP101_1.0-1.1	Oct 20, 2021		Soil	S21-No02662										X		X						
108	TP120_1.0-1.1	Oct 20, 2021		Soil	S21-No02663		X			X							X						

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
109	TP120_1.5-1.6	Oct 20, 2021	Soil			X			X						X					
110	TP120_2.0-2.1	Oct 20, 2021	Soil			X			X						X					
111	TP120_2.5-2.6	Oct 20, 2021	Soil										X		X					
112	TP130_1.0-1.1	Oct 21, 2021	Soil			X			X						X					
113	TP130_1.5-1.6	Oct 21, 2021	Soil										X		X					
114	TP130_2.0-2.1	Oct 21, 2021	Soil			X			X						X					
115	TP137_1.0-1.1	Oct 21, 2021	Soil			X			X						X					
116	TP137_1.5-1.6	Oct 21, 2021	Soil			X			X						X					
117	TP137_2.0-2.1	Oct 21, 2021	Soil			X			X						X					
118	TP137_2.5-2.6	Oct 21, 2021	Soil										X		X					
119	TRIP BLANK	Oct 15, 2021	Soil												X			X		

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Melbourne Laboratory - NATA # 1261 Site # 1254																								
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																								
Mayfield Laboratory - NATA # 1261 Site # 25079																								
Perth Laboratory - NATA # 2377 Site # 2370																								
External Laboratory																								
	15/10																							
120	TRIP SPIKE 15/10	Oct 15, 2021		Soil	S21-No02675												X					X		
121	TRIP SPIKE LAB 15/10	Oct 15, 2021		Soil	S21-No02676												X					X		
122	TRIP BLANK 18/10	Oct 18, 2021		Soil	S21-No02677												X			X				
123	TRIP SPIKE 18/10	Oct 18, 2021		Soil	S21-No02678												X					X		
124	TRIP SPIKE LAB 18/10	Oct 18, 2021		Soil	S21-No02679												X					X		
125	TRIP BLANK 19/10	Oct 19, 2021		Soil	S21-No02680												X			X				

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Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
126	TRIP SPIKE 19/10	Oct 19, 2021		Soil	S21-No02681												X				X		
127	TRIP SPIKE LAB 19/10	Oct 19, 2021		Soil	S21-No02682												X				X		
128	TRIP BLANK 20/10	Oct 20, 2021		Soil	S21-No02683												X			X			
129	TRIP SPIKE 20/10	Oct 20, 2021		Soil	S21-No02684												X				X		
130	TRIP SPIKE LAB 20/10	Oct 20, 2021		Soil	S21-No02685												X				X		
131	TRIP BLANK 21/10	Oct 21, 2021		Soil	S21-No02686												X			X			
132	TRIP SPIKE	Oct 21, 2021		Soil	S21-No02687												X				X		

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Melbourne Laboratory - NATA # 1261 Site # 1254																						
Sydney Laboratory - NATA # 1261 Site # 18217					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						
Mayfield Laboratory - NATA # 1261 Site # 25079																						
Perth Laboratory - NATA # 2377 Site # 2370																						
External Laboratory																						
	21/10																					
133	TRIP SPIKE LAB 21/10	Oct 21, 2021		Soil	S21-No02688											X					X	
134	DW13	Oct 15, 2021		Soil	S21-No02689				X													
135	DW14	Oct 15, 2021		Soil	S21-No02690				X													
136	DW15	Oct 15, 2021		Soil	S21-No02691				X													
137	DW16	Oct 15, 2021		Soil	S21-No02692				X													
138	TP50_0.5-0.6	Oct 15, 2021		Soil	S21-No02693				X													
139	TP51_1.0-1.1	Oct 15, 2021		Soil	S21-No02694				X													
140	TP51_2.0-2.1	Oct 15, 2021		Soil	S21-No02695				X													
141	TP51_2.3-2.4	Oct 15, 2021		Soil	S21-No02696				X													

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
142	TP53_0.3-0.4	Oct 15, 2021	Soil					X												
143	TP54_1.0-1.1	Oct 15, 2021	Soil					X												
144	TP54_2.0-2.1	Oct 15, 2021	Soil					X												
145	TP54_2.4-2.5	Oct 15, 2021	Soil					X												
146	DW17	Oct 15, 2021	Soil					X												
147	DW18	Oct 15, 2021	Soil					X												
148	DW19	Oct 15, 2021	Soil					X												
149	TP61_0.5-0.6	Oct 18, 2021	Soil					X												
150	TP61_1.0-1.1	Oct 18, 2021	Soil					X												
151	TP63_0.0-0.1	Oct 18, 2021	Soil					X												
152	TP63_0.5-0.6	Oct 18, 2021	Soil					X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
153	TP63_1.0-1.1	Oct 18, 2021	Soil					X												
154	TP64_1.0-1.1	Oct 18, 2021	Soil					X												
155	TP64_1.5-1.6	Oct 18, 2021	Soil					X												
156	TP65_1.0-1.1	Oct 18, 2021	Soil					X												
157	TP65_2.0-2.1	Oct 18, 2021	Soil					X												
158	TP66_0.6-0.7	Oct 18, 2021	Soil					X												
159	DR15 0.4-0.5	Oct 18, 2021	Soil					X												
160	DW20	Oct 18, 2021	Soil					X												
161	DW21	Oct 18, 2021	Soil					X												
162	TP141_0.5-0.6	Oct 18, 2021	Soil					X												
163	TP141_1.5-1.6	Oct 18, 2021	Soil					X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
164	TP142_0.0-0.1	Oct 18, 2021						X												
165	TP142_1.5-1.6	Oct 18, 2021						X												
166	DR16 1.0-1.1	Oct 19, 2021						X												
167	DR16 2.0-2.1	Oct 19, 2021						X												
168	DR17 1.0-1.1	Oct 19, 2021						X												
169	TP70_0.3-0.4	Oct 19, 2021						X												
170	TP71_0.3-0.4	Oct 19, 2021						X												
171	TP79_0.0-0.1	Oct 19, 2021						X												
172	TP81_0.0-0.1	Oct 19, 2021						X												
173	TP83_0.0-0.1	Oct 19, 2021						X												
174	TP85_0.0-0.1	Oct 19, 2021						X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
175	TP87_0.0-0.1	Oct 19, 2021						X												
176	TP89_0.0-0.1	Oct 19, 2021						X												
177	TP91_0.0-0.1	Oct 19, 2021						X												
178	TP93_0.0-0.1	Oct 19, 2021						X												
179	TP97_0.0-0.1	Oct 20, 2021						X												
180	TP99_0.0-0.1	Oct 20, 2021						X												
181	TP103_0.0-0.1	Oct 20, 2021						X												
182	TP105_0.0-0.1	Oct 20, 2021						X												
183	TP107_0.0-0.1	Oct 20, 2021						X												
184	TP109_0.0-0.1	Oct 20, 2021						X												
185	TP111_0.0-0.1	Oct 20, 2021						X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
186	TP113_0.0-0.1	Oct 20, 2021	Soil					X												
187	TP115_0.0-0.1	Oct 20, 2021	Soil					X												
188	TP117_0.0-0.1	Oct 20, 2021	Soil					X												
189	TP119_0.0-0.1	Oct 20, 2021	Soil					X												
190	TP121_0.0-0.1	Oct 20, 2021	Soil					X												
191	TP123_0.0-0.1	Oct 20, 2021	Soil					X												
192	TP127_0.0-0.1	Oct 21, 2021	Soil					X												
193	TP129_0.0-0.1	Oct 21, 2021	Soil					X												
194	TP131_0.0-0.1	Oct 21, 2021	Soil					X												
195	TP133_0.0-0.1	Oct 21, 2021	Soil					X												
196	TP135_0.0-0.1	Oct 21, 2021	Soil					X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
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Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
197	TP139_0.0-0.1	Oct 21, 2021	Soil					X												
198	TP78_0.2-0.3	Oct 19, 2021	Soil					X												
199	TP79_0.2-0.3	Oct 19, 2021	Soil					X												
200	TP80_0.2-0.3	Oct 19, 2021	Soil					X												
201	TP81_0.2-0.3	Oct 19, 2021	Soil					X												
202	TP82_0.2-0.3	Oct 19, 2021	Soil					X												
203	TP83_0.2-0.3	Oct 19, 2021	Soil					X												
204	TP84_0.2-0.3	Oct 19, 2021	Soil					X												
205	TP85_0.2-0.3	Oct 19, 2021	Soil					X												
206	TP87_0.2-0.3	Oct 19, 2021	Soil					X												
207	TP88_0.2-0.3	Oct 19, 2021	Soil					X												

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Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
208	TP89_0.2-0.3	Oct 19, 2021		Soil	S21-No02763					X													
209	TP90_0.2-0.3	Oct 19, 2021		Soil	S21-No02764					X													
210	TP91_0.2-0.3	Oct 19, 2021		Soil	S21-No02765					X													
211	TP92_0.2-0.3	Oct 19, 2021		Soil	S21-No02766					X													
212	TP93_0.2-0.3	Oct 19, 2021		Soil	S21-No02767					X													
213	TP94_0.2-0.3	Oct 19, 2021		Soil	S21-No02768					X													
214	TP95_0.2-0.3	Oct 19, 2021		Soil	S21-No02769					X													
215	TP96_0.2-0.3	Oct 20, 2021		Soil	S21-No02770					X													
216	TP97_0.2-0.3	Oct 20, 2021		Soil	S21-No02771					X													
217	TP98_0.2-0.3	Oct 20, 2021		Soil	S21-No02772					X													
218	TP99_0.2-0.3	Oct 20, 2021		Soil	S21-No02773					X													

ABN: 50 005 085 521

ABN: 91 05 0159 898

NZBN: 9429046024954

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6 Monterey Road
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NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

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Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

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Project ID: 13546

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Melbourne Laboratory - NATA # 1261 Site # 1254																								
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																								
Mayfield Laboratory - NATA # 1261 Site # 25079																								
Perth Laboratory - NATA # 2377 Site # 2370																								
External Laboratory																								
219	TP100_0.2-0.3	Oct 20, 2021		Soil	S21-No02774					X														
220	TP102_0.2-0.3	Oct 20, 2021		Soil	S21-No02775					X														
221	TP103_0.2-0.3	Oct 20, 2021		Soil	S21-No02776					X														
222	TP104_0.2-0.3	Oct 20, 2021		Soil	S21-No02777					X														
223	TP105_0.2-0.3	Oct 20, 2021		Soil	S21-No02778					X														
224	TP106_0.2-0.3	Oct 20, 2021		Soil	S21-No02779					X														
225	TP107_0.2-0.3	Oct 20, 2021		Soil	S21-No02780					X														
226	TP108_0.2-0.3	Oct 20, 2021		Soil	S21-No02781					X														
227	TP109_0.2-0.3	Oct 20, 2021		Soil	S21-No02782					X														
228	TP110_0.2-0.3	Oct 20, 2021		Soil	S21-No02783					X														
229	TP111_0.2-0.3	Oct 20, 2021		Soil	S21-No02784					X														

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
230	TP112_0.2-0.3	Oct 20, 2021						X												
231	TP113_0.2-0.3	Oct 20, 2021						X												
232	TP114_0.2-0.3	Oct 20, 2021						X												
233	TP115_0.2-0.3	Oct 20, 2021						X												
234	TP116_0.2-0.3	Oct 20, 2021						X												
235	TP117_0.2-0.3	Oct 20, 2021						X												
236	TP118_0.2-0.3	Oct 20, 2021						X												
237	TP119_0.2-0.3	Oct 20, 2021						X												
238	TP121_0.2-0.3	Oct 20, 2021						X												
239	TP122_0.2-0.3	Oct 20, 2021						X												
240	TP123_0.2-0.3	Oct 20, 2021						X												

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NZBN: 9429046024954

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
241	TP124_0.2-0.3	Oct 20, 2021		Soil	S21-No02796					X													
242	TP125_0.2-0.3	Oct 20, 2021		Soil	S21-No02797					X													
243	TP126_0.2-0.3	Oct 20, 2021		Soil	S21-No02798					X													
244	TP127_0.2-0.3	Oct 21, 2021		Soil	S21-No02799					X													
245	TP128_0.2-0.3	Oct 21, 2021		Soil	S21-No02800					X													
246	TP129_0.2-0.3	Oct 21, 2021		Soil	S21-No02801					X													
247	TP131_0.2-0.3	Oct 21, 2021		Soil	S21-No02802					X													
248	TP132_0.2-0.3	Oct 21, 2021		Soil	S21-No02803					X													
249	TP133_0.2-0.3	Oct 21, 2021		Soil	S21-No02804					X													
250	TP134_0.2-0.3	Oct 21, 2021		Soil	S21-No02805					X													
251	TP135_0.2-0.3	Oct 21, 2021		Soil	S21-No02806					X													

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Melbourne Laboratory - NATA # 1261 Site # 1254																						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																						
Mayfield Laboratory - NATA # 1261 Site # 25079																						
Perth Laboratory - NATA # 2377 Site # 2370																						
External Laboratory																						
252	TP136_0.2-0.3	Oct 21, 2021		Soil	S21-No02807					X												
Test Counts						8	8	30	8	119	30	30	30	28	7	2	121	42	4	5	10	

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

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

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

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

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g,h,i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a,h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1,2,3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4,4'-DDD	mg/L	< 0.0002			0.0002	Pass	
4,4'-DDE	mg/L	< 0.0002			0.0002	Pass	
4,4'-DDT	mg/L	< 0.0002			0.0002	Pass	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-HCH	mg/L	< 0.0002			0.0002	Pass	
Dieldrin	mg/L	< 0.0002			0.0002	Pass	
Endosulfan I	mg/L	< 0.0002			0.0002	Pass	
Endosulfan II	mg/L	< 0.0002			0.0002	Pass	
Endosulfan sulphate	mg/L	< 0.0002			0.0002	Pass	
Endrin	mg/L	< 0.0002			0.0002	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
g-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.005			0.005	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.005			0.005	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	82			70-130	Pass	
TRH C10-C14	%	73			70-130	Pass	
Naphthalene	%	94			70-130	Pass	
TRH C6-C10	%	82			70-130	Pass	
TRH >C10-C16	%	72			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	92			70-130	Pass	
Toluene	%	94			70-130	Pass	
Ethylbenzene	%	91			70-130	Pass	
m&p-Xylenes	%	92			70-130	Pass	
o-Xylene	%	91			70-130	Pass	
Xylenes - Total*	%	92			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	75			70-130	Pass	
Acenaphthylene	%	73			70-130	Pass	
Anthracene	%	83			70-130	Pass	
Benz(a)anthracene	%	77			70-130	Pass	
Benzo(a)pyrene	%	78			70-130	Pass	
Benzo(b&i)fluoranthene	%	83			70-130	Pass	
Benzo(g,h,i)perylene	%	76			70-130	Pass	
Benzo(k)fluoranthene	%	79			70-130	Pass	
Chrysene	%	78			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
Dibenz(a,h)anthracene	%	81			70-130	Pass		
Fluoranthene	%	85			70-130	Pass		
Fluorene	%	76			70-130	Pass		
Indeno(1.2.3-cd)pyrene	%	81			70-130	Pass		
Naphthalene	%	72			70-130	Pass		
Phenanthrene	%	81			70-130	Pass		
Pyrene	%	85			70-130	Pass		
LCS - % Recovery								
Organochlorine Pesticides								
Chlordanes - Total	%	76			70-130	Pass		
4.4'-DDD	%	71			70-130	Pass		
4.4'-DDE	%	73			70-130	Pass		
4.4'-DDT	%	83			70-130	Pass		
a-HCH	%	70			70-130	Pass		
Aldrin	%	79			70-130	Pass		
b-HCH	%	70			70-130	Pass		
d-HCH	%	73			70-130	Pass		
Dieldrin	%	73			70-130	Pass		
Endosulfan I	%	75			70-130	Pass		
Endosulfan II	%	75			70-130	Pass		
Endosulfan sulphate	%	74			70-130	Pass		
Endrin	%	119			70-130	Pass		
Endrin aldehyde	%	70			70-130	Pass		
Endrin ketone	%	80			70-130	Pass		
g-HCH (Lindane)	%	75			70-130	Pass		
Heptachlor	%	89			70-130	Pass		
Heptachlor epoxide	%	81			70-130	Pass		
Hexachlorobenzene	%	73			70-130	Pass		
Methoxychlor	%	84			70-130	Pass		
LCS - % Recovery								
Polychlorinated Biphenyls								
Aroclor-1260	%	78			70-130	Pass		
LCS - % Recovery								
Heavy Metals								
Arsenic	%	105			80-120	Pass		
Cadmium	%	106			80-120	Pass		
Chromium	%	98			80-120	Pass		
Copper	%	94			80-120	Pass		
Lead	%	94			80-120	Pass		
Mercury	%	104			80-120	Pass		
Nickel	%	108			80-120	Pass		
Zinc	%	112			80-120	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	S21-Oc61078	NCP	%	92		70-130	Pass	
TRH C10-C14	S21-No07319	NCP	%	77		70-130	Pass	
Naphthalene	S21-Oc61078	NCP	%	90		70-130	Pass	
TRH C6-C10	S21-Oc61078	NCP	%	91		70-130	Pass	
TRH >C10-C16	S21-No07319	NCP	%	91		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S21-Oc61078	NCP	%	92		70-130	Pass	
Toluene	S21-Oc61078	NCP	%	96		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	S21-Oc61078	NCP	%	97			70-130	Pass	
m&p-Xylenes	S21-Oc61078	NCP	%	99			70-130	Pass	
o-Xylene	S21-Oc61078	NCP	%	98			70-130	Pass	
Xylenes - Total*	S21-Oc61078	NCP	%	99			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthylene	S21-No02650	CP	%	72			70-130	Pass	
Anthracene	S21-No02650	CP	%	76			70-130	Pass	
Fluoranthene	S21-No02650	CP	%	81			70-130	Pass	
Fluorene	S21-No02650	CP	%	74			70-130	Pass	
Phenanthrene	S21-No02650	CP	%	78			70-130	Pass	
Pyrene	S21-No02650	CP	%	79			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-No02652	CP	%	92			75-125	Pass	
Cadmium	S21-No02652	CP	%	102			75-125	Pass	
Chromium	S21-No02652	CP	%	109			75-125	Pass	
Copper	S21-No02652	CP	%	109			75-125	Pass	
Lead	S21-No02652	CP	%	112			75-125	Pass	
Mercury	S21-No02652	CP	%	95			75-125	Pass	
Nickel	S21-No02652	CP	%	107			75-125	Pass	
Zinc	S21-No02652	CP	%	106			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-Oc61079	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Naphthalene	S21-Oc61079	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S21-Oc61079	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Oc61079	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S21-Oc61079	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S21-Oc61079	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S21-Oc61079	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S21-Oc61079	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S21-Oc61079	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-No02556	CP	mg/L	0.003	0.002	6.0	30%	Pass	
Cadmium	S21-No02556	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S21-No02556	CP	mg/L	0.006	0.006	4.0	30%	Pass	
Copper	S21-No02556	CP	mg/L	0.010	0.010	4.0	30%	Pass	
Lead	S21-No02556	CP	mg/L	0.006	0.006	3.0	30%	Pass	
Mercury	S21-No02556	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S21-No02556	CP	mg/L	0.006	0.006	3.0	30%	Pass	
Zinc	S21-No02556	CP	mg/L	0.020	0.019	6.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S21-No02593	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S21-No02593	CP	mg/L	< 0.1	0.1	25	30%	Pass	
TRH C29-C36	S21-No02593	CP	mg/L	0.1	0.1	18	30%	Pass	
TRH >C10-C16	S21-No02593	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S21-No02593	CP	mg/L	0.1	0.2	27	30%	Pass	
TRH >C34-C40	S21-No02593	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Acenaphthylene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Anthracene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benz(a)anthracene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzo(a)pyrene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzo(b&j)fluoranthene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzo(g,h,i)perylene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzo(k)fluoranthene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chrysene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibenz(a,h)anthracene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Fluoranthene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Fluorene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Naphthalene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Phenanthrene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Pyrene	S21-No02593	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S21-No02593	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass
4,4'-DDD	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
4,4'-DDE	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
4,4'-DDT	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
a-HCH	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Aldrin	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
b-HCH	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
d-HCH	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Dieldrin	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Endosulfan I	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Endosulfan II	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Endosulfan sulphate	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Endrin	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Endrin aldehyde	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Endrin ketone	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
g-HCH (Lindane)	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Heptachlor	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Heptachlor epoxide	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Hexachlorobenzene	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Methoxychlor	S21-No02593	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S21-No02593	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Aroclor-1221	S21-No02593	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Aroclor-1232	S21-No02593	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Aroclor-1242	S21-No02593	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Aroclor-1248	S21-No02593	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Aroclor-1254	S21-No02593	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Aroclor-1260	S21-No02593	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Total PCB*	S21-No02593	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-No02650	CP	mg/L	0.007	0.006	11	30%	Pass
Cadmium	S21-No02650	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Chromium	S21-No02650	CP	mg/L	0.007	0.007	11	30%	Pass
Copper	S21-No02650	CP	mg/L	0.020	0.018	9.0	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Lead	S21-No02650	CP	mg/L	0.021	0.019	10	30%	Pass
Mercury	S21-No02650	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass
Nickel	S21-No02650	CP	mg/L	0.010	0.008	13	30%	Pass
Zinc	S21-No02650	CP	mg/L	0.038	0.032	19	30%	Pass

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC

Authorised by:

Emma Beesley	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Alliance Geotechnical
10 Welder Road
Seven Hills
NSW 2147



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 reference materials producers reports and certificates.

Attention: **Jacob Walker**

Report **836977-S**
 Project name **KEMPS CREEK**
 Project ID **13546**
 Received Date **Oct 28, 2021**

Client Sample ID			DS11	DS12	TP50_0.0-0.1	TP51_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02558	S21-No02559	S21-No02560	S21-No02561
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	55	< 50	52	< 50
TRH C29-C36	50	mg/kg	98	< 50	150	< 50
TRH C10-C36 (Total)	50	mg/kg	153	< 50	202	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	160	< 100	170	110
TRH >C34-C40	100	mg/kg	170	< 100	190	120
TRH >C10-C40 (total)*	100	mg/kg	330	< 100	360	230
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	66	122	117	118
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			DS11	DS12	TP50_0.0-0.1	TP51_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02558	S21-No02559	S21-No02560	S21-No02561
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	66	71	83	88
p-Terphenyl-d14 (surr.)	1	%	77	74	81	69
Heavy Metals						
Arsenic	2	mg/kg	12	10	11	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	22	25	31
Copper	5	mg/kg	33	39	42	27
Lead	5	mg/kg	28	26	34	54
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	16	19	20	15
Zinc	5	mg/kg	53	93	170	150
% Moisture						
	1	%	23	31	36	14
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	0.13
b-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	2.0
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	2.13
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	2.13
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	97	69
Tetrachloro-m-xylene (surr.)	1	%	-	-	95	89

Client Sample ID			DS11	DS12	TP50_0.0-0.1	TP51_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02558	S21-No02559	S21-No02560	S21-No02561
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	97	69
Tetrachloro-m-xylene (surr.)	1	%	-	-	95	89

Client Sample ID			TP52_0.0-0.1	TP52_0.5-0.6	TP52_1.0-1.1	TP52_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02562	S21-No02563	S21-No02564	S21-No02565
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	89	-	-	-
TRH C10-C36 (Total)	50	mg/kg	89	-	-	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	127	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			TP52_0.0-0.1	TP52_0.5-0.6	TP52_1.0-1.1	TP52_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02562	S21-No02563	S21-No02564	S21-No02565
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	92	-	-	-
p-Terphenyl-d14 (surr.)	1	%	81	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	14	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	17	-	-	-
Copper	5	mg/kg	22	-	-	-
Lead	5	mg/kg	41	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	21	-	-	-
Zinc	5	mg/kg	58	-	-	-
Physical Properties						
% Moisture	1	%	19	15	5.0	6.5
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	46	350	660	370
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.3	7.7	7.5	8.2
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4,4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID			TP52_0.0-0.1	TP52_0.5-0.6	TP52_1.0-1.1	TP52_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02562	S21-No02563	S21-No02564	S21-No02565
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	110	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	93	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	110	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	93	-	-	-

Client Sample ID			TP52_2.0-2.1	TP52_2.5-2.6	TP53_0.0-0.1	TP54_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02566	S21-No02567	S21-No02568	S21-No02569
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	23	< 20
TRH C15-C28	50	mg/kg	-	-	< 50	< 50
TRH C29-C36	50	mg/kg	-	-	< 50	56
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	56
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	110	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	110	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	90	65

Client Sample ID			TP52_2.0-2.1	TP52_2.5-2.6	TP53_0.0-0.1	TP54_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02566	S21-No02567	S21-No02568	S21-No02569
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	1.2
Acenaphthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	87	84
p-Terphenyl-d14 (surr.)	1	%	-	-	81	78
Heavy Metals						
Arsenic	2	mg/kg	-	-	9.1	10
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	19	17
Copper	5	mg/kg	-	-	22	25
Lead	5	mg/kg	-	-	25	22
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	13	14
Zinc	5	mg/kg	-	-	54	69
% Moisture	1	%	8.6	21	24	22
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	380	360	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.0	7.8	-	-
Chloride	10	mg/kg	-	500	-	-
Resistivity*	0.5	ohm.m	-	28	-	-
Sulphate (as SO4)	10	mg/kg	-	120	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05

Client Sample ID			TP52_2.0-2.1	TP52_2.5-2.6	TP53_0.0-0.1	TP54_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02566	S21-No02567	S21-No02568	S21-No02569
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	-	-	106	94
Tetrachloro-m-xylene (surr.)	1	%	-	-	91	87
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	-	-	106	94
Tetrachloro-m-xylene (surr.)	1	%	-	-	91	87

Client Sample ID			DS13	DS14	TP61_0.0-0.1	TP62_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02570	S21-No02571	S21-No02574	S21-No02575
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100

Client Sample ID			DS13	DS14	TP61_0.0-0.1	TP62_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02570	S21-No02571	S21-No02574	S21-No02575
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	117	100	89	101
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	64	60	-	-
p-Terphenyl-d14 (surr.)	1	%	66	78	-	-
Heavy Metals						
Arsenic	2	mg/kg	18	30	5.4	17
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	35	11	25
Copper	5	mg/kg	20	41	15	32
Lead	5	mg/kg	30	58	16	41
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.6	0.3
Nickel	5	mg/kg	30	25	7.1	16
Zinc	5	mg/kg	79	1000	44	65
% Moisture						
% Moisture	1	%	21	23	9.1	18
Conductivity (1:5 aqueous extract at 25°C as rec.)						
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	-	100
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	-	7.1

Client Sample ID			TP62_0.5-0.6	TP62_1.0-1.1	TP62_1.5-1.6	TP62_2.0-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02576	S21-No02577	S21-No02578	S21-No02579
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	17	10	18	8.5
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	14	52	240	31
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.9	7.2	7.5	6.6
Chloride	10	mg/kg	-	-	380	-
Resistivity*	0.5	ohm.m	-	-	42	-
Sulphate (as SO4)	10	mg/kg	-	-	11	-

Client Sample ID			TP62_2.5-2.6	TP64_0.0-0.1	TP65_0.0-0.1	TP66_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02580	S21-No02581	S21-No02582	S21-No02583
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	8.6	7.6	2.7
Chromium	5	mg/kg	-	22	19	5.6
Copper	5	mg/kg	-	39	31	8.0
% Moisture	1	%	17	24	18	13
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	320	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.4	-	-	-

Client Sample ID			BD4	SP3-1	SP3-2	PP9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02584	S21-No02585	S21-No02586	S21-No02587
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	68	< 50	-
TRH C29-C36	50	mg/kg	< 50	110	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	178	< 50	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	150	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	150	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-

Client Sample ID			BD4	SP3-1	SP3-2	PP9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02584	S21-No02585	S21-No02586	S21-No02587
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	118	92	84	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	66	91	85	-
p-Terphenyl-d14 (surr.)	1	%	65	81	79	-
Heavy Metals						
Arsenic	2	mg/kg	11	8.9	8.2	8.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	23	16	16	19
Copper	5	mg/kg	36	30	22	33
Lead	5	mg/kg	28	48	22	-
Mercury	0.1	mg/kg	< 0.1	0.5	< 0.1	-
Nickel	5	mg/kg	20	18	8.4	-
Zinc	5	mg/kg	71	160	28	-
% Moisture						
% Moisture	1	%	18	20	18	17
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4,4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4,4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4,4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-

Client Sample ID			BD4	SP3-1	SP3-2	PP9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02584	S21-No02585	S21-No02586	S21-No02587
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchloredate (surr.)	1	%	-	68	92	-
Tetrachloro-m-xylene (surr.)	1	%	-	96	93	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchloredate (surr.)	1	%	-	68	92	-
Tetrachloro-m-xylene (surr.)	1	%	-	96	93	-

Client Sample ID			DR15 0.0-0.1	PP1	PP10	PP11
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02588	S21-No02589	S21-No02590	S21-No02591
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-

Client Sample ID			DR15 0.0-0.1	PP1	PP10	PP11
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02588	S21-No02589	S21-No02590	S21-No02591
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	95	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	66	-	-	-
p-Terphenyl-d14 (surr.)	1	%	61	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	9.0	3.7	16	8.0
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	17	7.5	30	17
Copper	5	mg/kg	19	11	47	28
Lead	5	mg/kg	36	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	8.6	-	-	-
Zinc	5	mg/kg	71	-	-	-
% Moisture	1	%	14	6.9	16	15

Client Sample ID			PP12	DS15	DS16	TP141_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02592	S21-No02595	S21-No02596	S21-No02597
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	< 50	73
TRH C29-C36	50	mg/kg	-	< 50	< 50	58
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	131
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	< 100	< 100	110
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	110
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	103	99	87
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	0.6
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	1.1
2-Fluorobiphenyl (surr.)	1	%	-	76	75	98
p-Terphenyl-d14 (surr.)	1	%	-	71	77	95
Heavy Metals						
Arsenic	2	mg/kg	7.4	14	15	27
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	18	22	22	13
Copper	5	mg/kg	22	24	29	28

Client Sample ID			PP12	DS15	DS16	TP141_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02592	S21-No02595	S21-No02596	S21-No02597
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	-	26	30	160
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	0.2
Nickel	5	mg/kg	-	16	15	15
Zinc	5	mg/kg	-	54	57	180
% Moisture						
	1	%	24	23	26	15
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	0.13
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	0.13
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	0.13
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	85
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	107
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	85
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	107

Client Sample ID			TP142_0.5-0.6	DR16 0.0-0.1	DR17 0.0-0.1	TP70_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02598	S21-No02599	S21-No02600	S21-No02601
Date Sampled			Oct 18, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	25	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	210	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	250	85	< 50	65
TRH C10-C36 (Total)	50	mg/kg	485	85	< 50	65
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	530	110	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	530	110	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	88	84	98	87
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	96	96	71	-
p-Terphenyl-d14 (surr.)	1	%	94	77	67	-
Heavy Metals						
Arsenic	2	mg/kg	7.0	2.8	4.6	7.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	13	13	18
Copper	5	mg/kg	62	8.7	13	32

Client Sample ID			TP142_0.5-0.6	DR16 0.0-0.1	DR17 0.0-0.1	TP70_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02598	S21-No02599	S21-No02600	S21-No02601
Date Sampled			Oct 18, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	30	160	24	57
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.5	7.6	5.3	16
Zinc	5	mg/kg	73	250	92	110
% Moisture	1	%	32	9.9	8.7	20
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	120	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	97	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	120	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	97	-	-	-

Client Sample ID			TP142_0.5-0.6	DR16 0.0-0.1	DR17 0.0-0.1	TP70_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02598	S21-No02599	S21-No02600	S21-No02601
Date Sampled			Oct 18, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.5	mg/kg	-	-	-	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	-	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	-	< 0.5
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.5	mg/kg	-	-	-	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	-	< 0.5
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			TP142_0.5-0.6	DR16 0.0-0.1	DR17 0.0-0.1	TP70_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02598	S21-No02599	S21-No02600	S21-No02601
Date Sampled			Oct 18, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	-	-	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	-	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	-	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	87
Toluene-d8 (surr.)	1	%	-	-	-	90

Client Sample ID			TP71_0.0-0.1	DS17	DS18	DW22
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02602	S21-No02605	S21-No02606	S21-No02607
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	56	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	56	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	70	61	61	84
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5

Client Sample ID			TP71_0.0-0.1	DS17	DS18	DW22
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02602	S21-No02605	S21-No02606	S21-No02607
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	55	58	85
p-Terphenyl-d14 (surr.)	1	%	-	58	60	86
Heavy Metals						
Arsenic	2	mg/kg	7.9	17	7.1	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	29	14	22
Copper	5	mg/kg	31	27	19	24
Lead	5	mg/kg	37	47	16	43
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	16	13	11	11
Zinc	5	mg/kg	69	110	39	98
% Moisture						
	1	%	23	33	24	18
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1

Client Sample ID			TP71_0.0-0.1	DS17	DS18	DW22
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02602	S21-No02605	S21-No02606	S21-No02607
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Dibutylchlorendate (surr.)	1	%	-	-	-	93
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	82
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	93
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	82
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			TP71_0.0-0.1	DS17	DS18	DW22
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02602	S21-No02605	S21-No02606	S21-No02607
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	70	-	-	-
Toluene-d8 (surr.)	1	%	95	-	-	-

Client Sample ID			DW23	TP78_0.0-0.1	TP80_0.0-0.1	TP82_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02608	S21-No02609	S21-No02610	S21-No02611
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-

Client Sample ID			DW23	TP78_0.0-0.1	TP80_0.0-0.1	TP82_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02608	S21-No02609	S21-No02610	S21-No02611
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
BTEX						
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	89	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	80	-	-	-
p-Terphenyl-d14 (surr.)	1	%	85	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	9.6	5.5	9.1	7.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	17	12	18	18
Copper	5	mg/kg	20	19	26	25
Lead	5	mg/kg	25	33	22	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	10	8.6	12	9.2
Zinc	5	mg/kg	60	140	48	35
% Moisture						
% Moisture	1	%	21	15	14	17
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			DW23	TP78_0.0-0.1	TP80_0.0-0.1	TP82_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02608	S21-No02609	S21-No02610	S21-No02611
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	88	98	113	112
Tetrachloro-m-xylene (surr.)	1	%	78	87	94	91
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorodate (surr.)	1	%	88	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	78	-	-	-

Client Sample ID			TP84_0.0-0.1	TP86_0.0-0.1	TP88_0.0-0.1	TP90_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02612	S21-No02613	S21-No02614	S21-No02615
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	8.8	7.3	7.2	9.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	19	14	20
Copper	5	mg/kg	31	26	19	41
Lead	5	mg/kg	20	24	17	23
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	17	14	15
Zinc	5	mg/kg	46	59	44	64
% Moisture						
% Moisture	1	%	16	13	11	19
Conductivity (1:5 aqueous extract at 25°C as rec.)						
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	29	-	-
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	6.2	-	-

Client Sample ID			TP84_0.0-0.1	TP86_0.0-0.1	TP88_0.0-0.1	TP90_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02612	S21-No02613	S21-No02614	S21-No02615
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	105	110	105	122
Tetrachloro-m-xylene (surr.)	1	%	86	95	91	105

Client Sample ID			TP92_0.0-0.1	TP94_0.0-0.1	TP95_0.0-0.1	TP96_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02616	S21-No02617	S21-No02618	S21-No02619
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	22	-
TRH C15-C28	50	mg/kg	-	-	170	-
TRH C29-C36	50	mg/kg	-	-	110	-
TRH C10-C36 (Total)	50	mg/kg	-	-	302	-
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	94	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	94	-
TRH >C16-C34	100	mg/kg	-	-	180	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	274	-

Client Sample ID			TP92_0.0-0.1	TP94_0.0-0.1	TP95_0.0-0.1	TP96_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02616	S21-No02617	S21-No02618	S21-No02619
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	67	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	76	-
p-Terphenyl-d14 (surr.)	1	%	-	-	83	-
Heavy Metals						
Arsenic	2	mg/kg	9.3	7.2	10	16
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	27	18	15	22
Copper	5	mg/kg	34	32	24	39
Lead	5	mg/kg	27	17	22	42
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	15	12	12	18
Zinc	5	mg/kg	52	41	66	69
% Moisture	1	%	16	17	49	21
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			TP92_0.0-0.1	TP94_0.0-0.1	TP95_0.0-0.1	TP96_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02616	S21-No02617	S21-No02618	S21-No02619
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	93	96	85	98
Tetrachloro-m-xylene (surr.)	1	%	85	89	80	99
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	85	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	80	-

Client Sample ID			TP98_0.0-0.1	TP100_0.0-0.1	TP101_0.0-0.1	TP102_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02620	S21-No02621	S21-No02622	S21-No02623
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	15	6.8	-	7.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	20	22	-	23
Copper	5	mg/kg	31	41	-	36
Lead	5	mg/kg	30	20	-	20
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	20	16	-	17
Zinc	5	mg/kg	66	56	-	50

Client Sample ID			TP98_0.0-0.1	TP100_0.0-0.1	TP101_0.0-0.1	TP102_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02620	S21-No02621	S21-No02622	S21-No02623
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
% Moisture	1	%	17	22	30	22
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	260	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	5.9	-
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	104	105	-	100
Tetrachloro-m-xylene (surr.)	1	%	97	96	-	93

Client Sample ID			TP104_0.0-0.1	TP106_0.0-0.1	TP108_0.0-0.1	TP110_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02624	S21-No02625	S21-No02626	S21-No02627
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	4.7	7.4	14	9.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	17	24	16
Copper	5	mg/kg	29	26	36	26
Lead	5	mg/kg	15	15	36	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	16	13	28	17
Zinc	5	mg/kg	43	43	92	51
% Moisture	1	%	16	18	25	20

Client Sample ID			TP104_0.0-0.1	TP106_0.0-0.1	TP108_0.0-0.1	TP110_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02624	S21-No02625	S21-No02626	S21-No02627
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	106	115	111	103
Tetrachloro-m-xylene (surr.)	1	%	102	97	94	95

Client Sample ID			TP112_0.0-0.1	TP114_0.0-0.1	TP116_0.0-0.1	TP118_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02628	S21-No02629	S21-No02630	S21-No02631
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	7.8	6.0	11	9.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	27	23	17	18
Copper	5	mg/kg	47	38	26	26
Lead	5	mg/kg	23	19	18	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	23	19	15	17
Zinc	5	mg/kg	86	70	47	52
% Moisture	1	%	13	4.8	13	22

Client Sample ID			TP112_0.0-0.1	TP114_0.0-0.1	TP116_0.0-0.1	TP118_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02628	S21-No02629	S21-No02630	S21-No02631
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	118	101	87	105
Tetrachloro-m-xylene (surr.)	1	%	102	91	78	91

Client Sample ID			TP120_0.0-0.1	TP122_0.0-0.1	TP124_0.0-0.1	TP125_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02632	S21-No02633	S21-No02634	S21-No02635
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100

Client Sample ID			TP120_0.0-0.1	TP122_0.0-0.1	TP124_0.0-0.1	TP125_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02632	S21-No02633	S21-No02634	S21-No02635
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	99	-	-	105
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	94	-	-	97
p-Terphenyl-d14 (surr.)	1	%	93	-	-	91
Heavy Metals						
Arsenic	2	mg/kg	5.0	9.3	10	14
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	12	15	19	21
Copper	5	mg/kg	26	22	28	31
Lead	5	mg/kg	16	13	24	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.2	12	19	23
Zinc	5	mg/kg	360	37	58	63
Physical Properties						
% Moisture	1	%	30	10	21	16
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	51	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.7	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			TP120_0.0-0.1	TP122_0.0-0.1	TP124_0.0-0.1	TP125_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02632	S21-No02633	S21-No02634	S21-No02635
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	115	102	118	103
Tetrachloro-m-xylene (surr.)	1	%	99	92	103	98
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorodate (surr.)	1	%	115	-	-	103
Tetrachloro-m-xylene (surr.)	1	%	99	-	-	98

Client Sample ID			TP126_0.0-0.1	TP128_0.0-0.1	TP130_0.0-0.1	TP132_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02636	S21-No02637	S21-No02638	S21-No02639
Date Sampled			Oct 20, 2021	Oct 21, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	12	12	9.3	14
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	14	21	19
Copper	5	mg/kg	27	36	36	25
Lead	5	mg/kg	27	14	18	20
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	21	21	18	24
Zinc	5	mg/kg	68	150	57	66

Client Sample ID			TP126_0.0-0.1	TP128_0.0-0.1	TP130_0.0-0.1	TP132_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02636	S21-No02637	S21-No02638	S21-No02639
Date Sampled			Oct 20, 2021	Oct 21, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
% Moisture	1	%	17	20	12	28
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	64	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	6.1	-
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	114	105	77	92
Tetrachloro-m-xylene (surr.)	1	%	104	97	96	99

Client Sample ID			TP134_0.0-0.1	TP136_0.0-0.1	TP137_0.0-0.1	TP138_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02640	S21-No02641	S21-No02642	S21-No02643
Date Sampled			Oct 21, 2021	Oct 21, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	12	11	-	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	19	21	-	21
Copper	5	mg/kg	26	26	-	28
Lead	5	mg/kg	22	23	-	23
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	18	20	-	19
Zinc	5	mg/kg	49	56	-	59

Client Sample ID			TP134_0.0-0.1	TP136_0.0-0.1	TP137_0.0-0.1	TP138_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02640	S21-No02641	S21-No02642	S21-No02643
Date Sampled			Oct 21, 2021	Oct 21, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	19	19	13	18
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	29	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	6.0	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	85	104	-	96
Tetrachloro-m-xylene (surr.)	1	%	92	106	-	96

Client Sample ID			TP86_0.5-0.6	TP101_0.5-0.6	TP120_0.5-0.6	TP130_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02644	S21-No02645	S21-No02646	S21-No02647
Date Sampled			Oct 19, 2021	Oct 20, 2021	Oct 20, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	16	19	14	15
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	47	34	-	19
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.7	6.4	-	6.5
Chloride	10	mg/kg	29	-	-	-
Resistivity*	0.5	ohm.m	210	-	-	-
Sulphate (as SO4)	10	mg/kg	44	-	-	-

Client Sample ID			TP86_0.5-0.6	TP101_0.5-0.6	TP120_0.5-0.6	TP130_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02644	S21-No02645	S21-No02646	S21-No02647
Date Sampled			Oct 19, 2021	Oct 20, 2021	Oct 20, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	90	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	95	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	90	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	95	-

Client Sample ID			TP137_0.5-0.6	DS19	DS20	DS21
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02648	S21-No02653	S21-No02654	S21-No02655
Date Sampled			Oct 21, 2021	Oct 21, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	-	< 50	< 50	51
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	51
Naphthalene ^{N02}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	97	82	82
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	69	66	63
p-Terphenyl-d14 (surr.)	1	%	-	73	74	67
Heavy Metals						
Arsenic	2	mg/kg	-	11	6.9	10
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	21	18	18
Copper	5	mg/kg	-	21	31	21

Client Sample ID			TP137_0.5-0.6	DS19	DS20	DS21
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02648	S21-No02653	S21-No02654	S21-No02655
Date Sampled			Oct 21, 2021	Oct 21, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	-	24	18	15
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	14	15	11
Zinc	5	mg/kg	-	73	68	55
% Moisture	1	%	19	33	33	26
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	15	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.1	-	-	-

Client Sample ID			DS22	BD5	TP86_1.0-1.1	TP86_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02656	S21-No02657	S21-No02658	S21-No02659
Date Sampled			Oct 20, 2021	Oct 21, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	100	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			DS22	BD5	TP86_1.0-1.1	TP86_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02656	S21-No02657	S21-No02658	S21-No02659
Date Sampled			Oct 20, 2021	Oct 21, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	57	-	-	-
p-Terphenyl-d14 (surr.)	1	%	79	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	20	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	18	-	-	-
Copper	5	mg/kg	28	-	-	-
Lead	5	mg/kg	18	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	19	-	-	-
Zinc	5	mg/kg	53	-	-	-
Physical Properties						
% Moisture	1	%	26	14	15	15
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	160	160
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	6.4	6.3
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4,4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4,4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4,4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-

Client Sample ID			DS22 Soil	BD5 Soil	TP86_1.0-1.1 Soil	TP86_1.5-1.6 Soil
Sample Matrix			S21-No02656	S21-No02657	S21-No02658	S21-No02659
Eurofins Sample No.			Oct 20, 2021	Oct 21, 2021	Oct 19, 2021	Oct 19, 2021
Date Sampled						
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	95	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	96	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	95	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	96	-	-

Client Sample ID			TP86_2.0-2.1 Soil	TP89_2.5-2.6 Soil	TP101_1.0-1.1 Soil	TP120_1.0-1.1 Soil
Sample Matrix			S21-No02660	S21-No02661	S21-No02662	S21-No02663
Eurofins Sample No.			Oct 19, 2021	Oct 19, 2021	Oct 20, 2021	Oct 20, 2021
Date Sampled						
Test/Reference	LOR	Unit				
% Moisture	1	%	15	16	13	8.9
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	340	380	95	54
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	5.5	5.5	7.6	7.9
Chloride	10	mg/kg	-	-	20	-
Resistivity*	0.5	ohm.m	-	-	110	-
Sulphate (as SO4)	10	mg/kg	-	-	21	-

Client Sample ID			TP120_1.5-1.6 Soil	TP120_2.0-2.1 Soil	TP120_2.5-2.6 Soil	TP130_1.0-1.1 Soil
Sample Matrix			S21-No02664	S21-No02665	S21-No02666	S21-No02667
Eurofins Sample No.			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 21, 2021
Date Sampled						
Test/Reference	LOR	Unit				
% Moisture	1	%	8.2	8.8	9.4	11
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	38	120	140	21
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.5	7.5	8.7	7.5
Chloride	10	mg/kg	-	-	74	-
Resistivity*	0.5	ohm.m	-	-	74	-
Sulphate (as SO4)	10	mg/kg	-	-	38	-

Client Sample ID			TP130_1.5-1.6	TP130_2.0-2.1	TP137_1.0-1.1	TP137_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02668	S21-No02669	S21-No02670	S21-No02671
Date Sampled			Oct 21, 2021	Oct 21, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	7.4	8.3	17	16
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	19	21	35	61
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.1	7.3	7.6	7.8
Chloride	10	mg/kg	< 10	-	-	-
Resistivity*	0.5	ohm.m	530	-	-	-
Sulphate (as SO4)	10	mg/kg	< 10	-	-	-

Client Sample ID			TP137_2.0-2.1	TP137_2.5-2.6	TRIP BLANK 15/10	TRIP SPIKE 15/10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02672	S21-No02673	S21-No02674	S21-No02675
Date Sampled			Oct 21, 2021	Oct 21, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	112	-
% Moisture						
% Moisture	1	%	13	11	-	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	150	160	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.5	6.3	-	-
Chloride	10	mg/kg	-	240	-	-
Resistivity*	0.5	ohm.m	-	63	-	-
Sulphate (as SO4)	10	mg/kg	-	< 10	-	-
TRH C6-C10	1	%	-	-	-	90
Total Recoverable Hydrocarbons						
Naphthalene	1	%	-	-	-	87
TRH C6-C9	1	%	-	-	-	91
BTEX						
Benzene	1	%	-	-	-	91
Ethylbenzene	1	%	-	-	-	93
m&p-Xylenes	1	%	-	-	-	93
o-Xylene	1	%	-	-	-	94
Toluene	1	%	-	-	-	91
Xylenes - Total	1	%	-	-	-	94
4-Bromofluorobenzene (surr.)	1	%	-	-	-	88

Client Sample ID			TRIP BLANK 18/10	TRIP SPIKE 18/10	TRIP BLANK 19/10	TRIP SPIKE 19/10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02677	S21-No02678	S21-No02680	S21-No02681
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	55	-	112	-
TRH C6-C10	1	%	-	100	-	96
Total Recoverable Hydrocarbons						
Naphthalene	1	%	-	96	-	89
TRH C6-C9	1	%	-	100	-	97
BTEX						
Benzene	1	%	-	100	-	97
Ethylbenzene	1	%	-	100	-	99
m&p-Xylenes	1	%	-	100	-	98
o-Xylene	1	%	-	100	-	100
Toluene	1	%	-	100	-	99
Xylenes - Total	1	%	-	100	-	99
4-Bromofluorobenzene (surr.)	1	%	-	71	-	96

Client Sample ID			TRIP BLANK 20/10	TRIP SPIKE 20/10	TRIP BLANK 21/10	TRIP SPIKE 21/10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02683	S21-No02684	S21-No02686	S21-No02687
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	< 20	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	123	-	87	-
TRH C6-C10	1	%	-	79	-	86

Client Sample ID			TRIP BLANK 20/10	TRIP SPIKE 20/10	TRIP BLANK 21/10	TRIP SPIKE 21/10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02683	S21-No02684	S21-No02686	S21-No02687
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
Naphthalene	1	%	-	80	-	81
TRH C6-C9	1	%	-	80	-	87
BTEX						
Benzene	1	%	-	85	-	87
Ethylbenzene	1	%	-	84	-	87
m&p-Xylenes	1	%	-	83	-	86
o-Xylene	1	%	-	83	-	87
Toluene	1	%	-	85	-	87
Xylenes - Total	1	%	-	83	-	87
4-Bromofluorobenzene (surr.)	1	%	-	92	-	103

Sample History

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

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 09, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 09, 2021	14 Days
Total Recoverable Hydrocarbons - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 09, 2021	14 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 09, 2021	14 Days
Eurofins Suite B6			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 09, 2021	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 09, 2021	28 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Nov 09, 2021	14 Days
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 08, 2021	28 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Sydney	Nov 09, 2021	7 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Nov 01, 2021	14 Days
Conductivity (1:5 aqueous extract at 25°C as rec.) - Method: LTM-INO-4030 Conductivity	Sydney	Nov 09, 2021	7 Days
pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH by ISE	Sydney	Nov 09, 2021	7 Days
Chloride - Method: In-house method LTM-INO-4270 Anions by Ion Chromatography	Sydney	Nov 08, 2021	28 Days
Sulphate (as SO ₄) - Method: In-house method LTM-INO-4270 Sulphate by Ion Chromatograph	Sydney	Nov 08, 2021	28 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 09, 2021	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 09, 2021	28 Days

Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																		
1	SW09	Oct 15, 2021		Water	S21-No02556									X				X					
2	SW10	Oct 15, 2021		Water	S21-No02557									X				X					
3	DS11	Oct 15, 2021		Soil	S21-No02558												X	X					
4	DS12	Oct 15, 2021		Soil	S21-No02559												X	X					
5	TP50_0.0-0.1	Oct 15, 2021		Soil	S21-No02560									X			X	X					
6	TP51_0.0-0.1	Oct 15, 2021		Soil	S21-No02561									X			X	X					
7	TP52_0.0-0.1	Oct 15, 2021		Soil	S21-No02562			X			X			X			X	X					
8	TP52_0.5-0.6	Oct 15, 2021		Soil	S21-No02563			X			X						X						
9	TP52_1.0-1.1	Oct 15, 2021		Soil	S21-No02564			X			X						X						

ABN: 50 005 085 521

ABN: 91 05 0159 898

NZBN: 9429046024954

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Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
10	TP52_1.5-1.6	Oct 15, 2021		Soil	S21-No02565			X			X						X						
11	TP52_2.0-2.1	Oct 15, 2021		Soil	S21-No02566			X			X						X						
12	TP52_2.5-2.6	Oct 15, 2021		Soil	S21-No02567										X		X						
13	TP53_0.0-0.1	Oct 15, 2021		Soil	S21-No02568									X			X	X					
14	TP54_0.0-0.1	Oct 15, 2021		Soil	S21-No02569									X			X	X					
15	DS13	Oct 18, 2021		Soil	S21-No02570												X	X					
16	DS14	Oct 18, 2021		Soil	S21-No02571												X	X					
17	SW11	Oct 18, 2021		Water	S21-No02572									X				X					
18	SW12	Oct 18, 2021		Water	S21-No02573									X				X					
19	TP61_0.0-0.1	Oct 18, 2021		Soil	S21-No02574												X		X				
20	TP62_0.0-0.1	Oct 18, 2021		Soil	S21-No02575			X			X						X		X				

ABN: 50 005 085 521

ABN: 91 05 0159 898

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Company Name: Alliance Geotechnical
Address: 10 Welder Road
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NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
21	TP62_0.5-0.6	Oct 18, 2021		Soil	S21-No02576			X			X						X						
22	TP62_1.0-1.1	Oct 18, 2021		Soil	S21-No02577			X			X						X						
23	TP62_1.5-1.6	Oct 18, 2021		Soil	S21-No02578										X		X						
24	TP62_2.0-2.1	Oct 18, 2021		Soil	S21-No02579			X			X						X						
25	TP62_2.5-2.6	Oct 18, 2021		Soil	S21-No02580			X			X						X						
26	TP64_0.0-0.1	Oct 18, 2021		Soil	S21-No02581	X	X		X								X						
27	TP65_0.0-0.1	Oct 18, 2021		Soil	S21-No02582	X	X		X								X						
28	TP66_0.0-0.1	Oct 18, 2021		Soil	S21-No02583	X	X		X								X						
29	BD4	Oct 18, 2021		Soil	S21-No02584												X	X					
30	SP3-1	Oct 18, 2021		Soil	S21-No02585									X			X	X					
31	SP3-2	Oct 18, 2021		Soil	S21-No02586									X			X	X					

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Company Name: Alliance Geotechnical
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Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Project Name: KEMPS CREEK
Project ID: 13546

Eurofins Analytical Services Manager : Andrew Black

Sample Detail				Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH	
Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
32	PP9	Oct 18, 2021	Soil		X	X	X							X						
33	DR15 0.0-0.1	Oct 18, 2021	Soil											X	X					
34	PP1	Oct 18, 2021	Soil		X	X	X							X						
35	PP10	Oct 18, 2021	Soil		X	X	X							X						
36	PP11	Oct 18, 2021	Soil		X	X	X							X						
37	PP12	Oct 18, 2021	Soil		X	X	X							X						
38	SW13	Oct 18, 2021	Water									X				X				
39	SW14	Oct 18, 2021	Water									X				X				
40	DS15	Oct 18, 2021	Soil											X	X					
41	DS16	Oct 18, 2021	Soil											X	X					
42	TP141_0.0-0.1	Oct 18, 2021	Soil									X		X	X					

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Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
43	TP142_0.5-0.6	Oct 18, 2021		Soil	S21-No02598									X			X	X					
44	DR16 0.0-0.1	Oct 19, 2021		Soil	S21-No02599												X	X					
45	DR17 0.0-0.1	Oct 19, 2021		Soil	S21-No02600												X	X					
46	TP70_0.0-0.1	Oct 19, 2021		Soil	S21-No02601											X	X		X				
47	TP71_0.0-0.1	Oct 19, 2021		Soil	S21-No02602											X	X		X				
48	SW15	Oct 19, 2021		Water	S21-No02603								X					X					
49	SW16	Oct 19, 2021		Water	S21-No02604								X					X					
50	DS17	Oct 19, 2021		Soil	S21-No02605												X	X					
51	DS18	Oct 19, 2021		Soil	S21-No02606												X	X					
52	DW22	Oct 19, 2021		Soil	S21-No02607									X			X	X					
53	DW23	Oct 19, 2021		Soil	S21-No02608									X			X	X					

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Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
54	TP78_0.0-0.1	Oct 19, 2021		Soil	S21-No02609							X	X				X						
55	TP80_0.0-0.1	Oct 19, 2021		Soil	S21-No02610							X	X				X						
56	TP82_0.0-0.1	Oct 19, 2021		Soil	S21-No02611							X	X				X						
57	TP84_0.0-0.1	Oct 19, 2021		Soil	S21-No02612							X	X				X						
58	TP86_0.0-0.1	Oct 19, 2021		Soil	S21-No02613		X			X	X	X	X				X						
59	TP88_0.0-0.1	Oct 19, 2021		Soil	S21-No02614							X	X				X						
60	TP90_0.0-0.1	Oct 19, 2021		Soil	S21-No02615							X	X				X						
61	TP92_0.0-0.1	Oct 19, 2021		Soil	S21-No02616							X	X				X						
62	TP94_0.0-0.1	Oct 19, 2021		Soil	S21-No02617							X	X				X						
63	TP95_0.0-0.1	Oct 19, 2021		Soil	S21-No02618									X			X	X					
64	TP96_0.0-0.1	Oct 20, 2021		Soil	S21-No02619							X	X				X						

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Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melbourne Laboratory - NATA # 1261 Site # 1254																								
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																								
Mayfield Laboratory - NATA # 1261 Site # 25079																								
Perth Laboratory - NATA # 2377 Site # 2370																								
External Laboratory																								
65	TP98_0.0-0.1	Oct 20, 2021		Soil	S21-No02620							X	X				X							
66	TP100_0.0-0.1	Oct 20, 2021		Soil	S21-No02621							X	X				X							
67	TP101_0.0-0.1	Oct 20, 2021		Soil	S21-No02622		X			X							X							
68	TP102_0.0-0.1	Oct 20, 2021		Soil	S21-No02623							X	X				X							
69	TP104_0.0-0.1	Oct 20, 2021		Soil	S21-No02624							X	X				X							
70	TP106_0.0-0.1	Oct 20, 2021		Soil	S21-No02625							X	X				X							
71	TP108_0.0-0.1	Oct 20, 2021		Soil	S21-No02626							X	X				X							
72	TP110_0.0-0.1	Oct 20, 2021		Soil	S21-No02627							X	X				X							
73	TP112_0.0-0.1	Oct 20, 2021		Soil	S21-No02628							X	X				X							
74	TP114_0.0-0.1	Oct 20, 2021		Soil	S21-No02629							X	X				X							
75	TP116_0.0-0.1	Oct 20, 2021		Soil	S21-No02630							X	X				X							

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
76	TP118_0.0-0.1	Oct 20, 2021		Soil	S21-No02631							X	X				X						
77	TP120_0.0-0.1	Oct 20, 2021		Soil	S21-No02632		X			X				X			X	X					
78	TP122_0.0-0.1	Oct 20, 2021		Soil	S21-No02633							X	X				X						
79	TP124_0.0-0.1	Oct 20, 2021		Soil	S21-No02634							X	X				X						
80	TP125_0.0-0.1	Oct 20, 2021		Soil	S21-No02635									X			X	X					
81	TP126_0.0-0.1	Oct 20, 2021		Soil	S21-No02636							X	X				X						
82	TP128_0.0-0.1	Oct 21, 2021		Soil	S21-No02637							X	X				X						
83	TP130_0.0-0.1	Oct 21, 2021		Soil	S21-No02638		X			X	X	X	X				X						
84	TP132_0.0-0.1	Oct 21, 2021		Soil	S21-No02639							X	X				X						
85	TP134_0.0-0.1	Oct 21, 2021		Soil	S21-No02640							X	X				X						
86	TP136_0.0-0.1	Oct 21, 2021		Soil	S21-No02641							X	X				X						

Company Name:	Alliance Geotechnical	Order No.:		Received:	Oct 28, 2021 1:54 PM
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Project Name:	KEMPS CREEK	Phone:	1800 288 188	Priority:	5 Day
Project ID:	13546	Fax:	02 9675 1888	Contact Name:	Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
87	TP137_0.0-0.1	Oct 21, 2021		Soil	S21-No02642			X			X						X						
88	TP138_0.0-0.1	Oct 21, 2021		Soil	S21-No02643							X	X				X						
89	TP86_0.5-0.6	Oct 19, 2021		Soil	S21-No02644										X		X						
90	TP101_0.5-0.6	Oct 20, 2021		Soil	S21-No02645			X			X						X						
91	TP120_0.5-0.6	Oct 20, 2021		Soil	S21-No02646									X			X						
92	TP130_0.5-0.6	Oct 21, 2021		Soil	S21-No02647			X			X						X						
93	TP137_0.5-0.6	Oct 21, 2021		Soil	S21-No02648			X			X						X						
94	SW17	Oct 21, 2021		Water	S21-No02649									X				X					
95	SW18	Oct 21, 2021		Water	S21-No02650									X				X					
96	SW19	Oct 21, 2021		Water	S21-No02651									X				X					
97	SW20	Oct 21, 2021		Water	S21-No02652									X				X					

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Melbourne Laboratory - NATA # 1261 Site # 1254																								
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																								
Mayfield Laboratory - NATA # 1261 Site # 25079																								
Perth Laboratory - NATA # 2377 Site # 2370																								
External Laboratory																								
98	DS19	Oct 21, 2021		Soil	S21-No02653												X	X						
99	DS20	Oct 20, 2021		Soil	S21-No02654												X	X						
100	DS21	Oct 20, 2021		Soil	S21-No02655												X	X						
101	DS22	Oct 20, 2021		Soil	S21-No02656												X	X						
102	BD5	Oct 21, 2021		Soil	S21-No02657								X				X							
103	TP86_1.0-1.1	Oct 19, 2021		Soil	S21-No02658		X			X							X							
104	TP86_1.5-1.6	Oct 19, 2021		Soil	S21-No02659		X			X							X							
105	TP86_2.0-2.1	Oct 19, 2021		Soil	S21-No02660		X			X							X							
106	TP89_2.5-2.6	Oct 19, 2021		Soil	S21-No02661		X			X							X							
107	TP101_1.0-1.1	Oct 20, 2021		Soil	S21-No02662										X		X							
108	TP120_1.0-1.1	Oct 20, 2021		Soil	S21-No02663		X			X							X							

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Company Name: Alliance Geotechnical
Address: 10 Welder Road
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NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
109	TP120_1.5-1.6	Oct 20, 2021		Soil	S21-No02664			X			X						X						
110	TP120_2.0-2.1	Oct 20, 2021		Soil	S21-No02665			X			X						X						
111	TP120_2.5-2.6	Oct 20, 2021		Soil	S21-No02666										X		X						
112	TP130_1.0-1.1	Oct 21, 2021		Soil	S21-No02667			X			X						X						
113	TP130_1.5-1.6	Oct 21, 2021		Soil	S21-No02668										X		X						
114	TP130_2.0-2.1	Oct 21, 2021		Soil	S21-No02669			X			X						X						
115	TP137_1.0-1.1	Oct 21, 2021		Soil	S21-No02670			X			X						X						
116	TP137_1.5-1.6	Oct 21, 2021		Soil	S21-No02671			X			X						X						
117	TP137_2.0-2.1	Oct 21, 2021		Soil	S21-No02672			X			X						X						
118	TP137_2.5-2.6	Oct 21, 2021		Soil	S21-No02673										X		X						
119	TRIP BLANK	Oct 15, 2021		Soil	S21-No02674												X			X			

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
	15/10																						
120	TRIP SPIKE 15/10	Oct 15, 2021		Soil	S21-No02675												X					X	
121	TRIP SPIKE LAB 15/10	Oct 15, 2021		Soil	S21-No02676												X					X	
122	TRIP BLANK 18/10	Oct 18, 2021		Soil	S21-No02677												X			X			
123	TRIP SPIKE 18/10	Oct 18, 2021		Soil	S21-No02678												X					X	
124	TRIP SPIKE LAB 18/10	Oct 18, 2021		Soil	S21-No02679												X					X	
125	TRIP BLANK 19/10	Oct 19, 2021		Soil	S21-No02680												X			X			

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Project Name: KEMPS CREEK
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Contact Name: Jacob Walker

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Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
126	TRIP SPIKE 19/10	Oct 19, 2021		Soil	S21-No02681												X					X	
127	TRIP SPIKE LAB 19/10	Oct 19, 2021		Soil	S21-No02682												X					X	
128	TRIP BLANK 20/10	Oct 20, 2021		Soil	S21-No02683												X			X			
129	TRIP SPIKE 20/10	Oct 20, 2021		Soil	S21-No02684												X					X	
130	TRIP SPIKE LAB 20/10	Oct 20, 2021		Soil	S21-No02685												X					X	
131	TRIP BLANK 21/10	Oct 21, 2021		Soil	S21-No02686												X			X			
132	TRIP SPIKE	Oct 21, 2021		Soil	S21-No02687												X					X	

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Address:	10 Welder Road Seven Hills NSW 2147	Report #:	836977	Due:	Nov 4, 2021
Project Name:	KEMPS CREEK	Phone:	1800 288 188	Priority:	5 Day
Project ID:	13546	Fax:	02 9675 1888	Contact Name:	Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
	21/10																						
133	TRIP SPIKE LAB 21/10	Oct 21, 2021		Soil	S21-No02688												X					X	
134	DW13	Oct 15, 2021		Soil	S21-No02689					X													
135	DW14	Oct 15, 2021		Soil	S21-No02690					X													
136	DW15	Oct 15, 2021		Soil	S21-No02691					X													
137	DW16	Oct 15, 2021		Soil	S21-No02692					X													
138	TP50_0.5-0.6	Oct 15, 2021		Soil	S21-No02693					X													
139	TP51_1.0-1.1	Oct 15, 2021		Soil	S21-No02694					X													
140	TP51_2.0-2.1	Oct 15, 2021		Soil	S21-No02695					X													
141	TP51_2.3-2.4	Oct 15, 2021		Soil	S21-No02696					X													

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
142	TP53_0.3-0.4	Oct 15, 2021	Soil					X												
143	TP54_1.0-1.1	Oct 15, 2021	Soil					X												
144	TP54_2.0-2.1	Oct 15, 2021	Soil					X												
145	TP54_2.4-2.5	Oct 15, 2021	Soil					X												
146	DW17	Oct 15, 2021	Soil					X												
147	DW18	Oct 15, 2021	Soil					X												
148	DW19	Oct 15, 2021	Soil					X												
149	TP61_0.5-0.6	Oct 18, 2021	Soil					X												
150	TP61_1.0-1.1	Oct 18, 2021	Soil					X												
151	TP63_0.0-0.1	Oct 18, 2021	Soil					X												
152	TP63_0.5-0.6	Oct 18, 2021	Soil					X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
153	TP63_1.0-1.1	Oct 18, 2021	Soil					X												
154	TP64_1.0-1.1	Oct 18, 2021	Soil					X												
155	TP64_1.5-1.6	Oct 18, 2021	Soil					X												
156	TP65_1.0-1.1	Oct 18, 2021	Soil					X												
157	TP65_2.0-2.1	Oct 18, 2021	Soil					X												
158	TP66_0.6-0.7	Oct 18, 2021	Soil					X												
159	DR15 0.4-0.5	Oct 18, 2021	Soil					X												
160	DW20	Oct 18, 2021	Soil					X												
161	DW21	Oct 18, 2021	Soil					X												
162	TP141_0.5-0.6	Oct 18, 2021	Soil					X												
163	TP141_1.5-1.6	Oct 18, 2021	Soil					X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
164	TP142_0.0-0.1	Oct 18, 2021						X												
165	TP142_1.5-1.6	Oct 18, 2021						X												
166	DR16 1.0-1.1	Oct 19, 2021						X												
167	DR16 2.0-2.1	Oct 19, 2021						X												
168	DR17 1.0-1.1	Oct 19, 2021						X												
169	TP70_0.3-0.4	Oct 19, 2021						X												
170	TP71_0.3-0.4	Oct 19, 2021						X												
171	TP79_0.0-0.1	Oct 19, 2021						X												
172	TP81_0.0-0.1	Oct 19, 2021						X												
173	TP83_0.0-0.1	Oct 19, 2021						X												
174	TP85_0.0-0.1	Oct 19, 2021						X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
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External Laboratory																				
175	TP87_0.0-0.1	Oct 19, 2021						X												
176	TP89_0.0-0.1	Oct 19, 2021						X												
177	TP91_0.0-0.1	Oct 19, 2021						X												
178	TP93_0.0-0.1	Oct 19, 2021						X												
179	TP97_0.0-0.1	Oct 20, 2021						X												
180	TP99_0.0-0.1	Oct 20, 2021						X												
181	TP103_0.0-0.1	Oct 20, 2021						X												
182	TP105_0.0-0.1	Oct 20, 2021						X												
183	TP107_0.0-0.1	Oct 20, 2021						X												
184	TP109_0.0-0.1	Oct 20, 2021						X												
185	TP111_0.0-0.1	Oct 20, 2021						X												

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Sample Detail				Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH	
Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
186	TP113_0.0-0.1	Oct 20, 2021						X												
187	TP115_0.0-0.1	Oct 20, 2021						X												
188	TP117_0.0-0.1	Oct 20, 2021						X												
189	TP119_0.0-0.1	Oct 20, 2021						X												
190	TP121_0.0-0.1	Oct 20, 2021						X												
191	TP123_0.0-0.1	Oct 20, 2021						X												
192	TP127_0.0-0.1	Oct 21, 2021						X												
193	TP129_0.0-0.1	Oct 21, 2021						X												
194	TP131_0.0-0.1	Oct 21, 2021						X												
195	TP133_0.0-0.1	Oct 21, 2021						X												
196	TP135_0.0-0.1	Oct 21, 2021						X												

ABN: 50 005 085 521

ABN: 91 05 0159 898

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Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
197	TP139_0.0-0.1	Oct 21, 2021	Soil					X												
198	TP78_0.2-0.3	Oct 19, 2021	Soil					X												
199	TP79_0.2-0.3	Oct 19, 2021	Soil					X												
200	TP80_0.2-0.3	Oct 19, 2021	Soil					X												
201	TP81_0.2-0.3	Oct 19, 2021	Soil					X												
202	TP82_0.2-0.3	Oct 19, 2021	Soil					X												
203	TP83_0.2-0.3	Oct 19, 2021	Soil					X												
204	TP84_0.2-0.3	Oct 19, 2021	Soil					X												
205	TP85_0.2-0.3	Oct 19, 2021	Soil					X												
206	TP87_0.2-0.3	Oct 19, 2021	Soil					X												
207	TP88_0.2-0.3	Oct 19, 2021	Soil					X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
208	TP89_0.2-0.3	Oct 19, 2021	Soil					X												
209	TP90_0.2-0.3	Oct 19, 2021	Soil					X												
210	TP91_0.2-0.3	Oct 19, 2021	Soil					X												
211	TP92_0.2-0.3	Oct 19, 2021	Soil					X												
212	TP93_0.2-0.3	Oct 19, 2021	Soil					X												
213	TP94_0.2-0.3	Oct 19, 2021	Soil					X												
214	TP95_0.2-0.3	Oct 19, 2021	Soil					X												
215	TP96_0.2-0.3	Oct 20, 2021	Soil					X												
216	TP97_0.2-0.3	Oct 20, 2021	Soil					X												
217	TP98_0.2-0.3	Oct 20, 2021	Soil					X												
218	TP99_0.2-0.3	Oct 20, 2021	Soil					X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
219	TP100_0.2-0.3	Oct 20, 2021		Soil	S21-No02774					X													
220	TP102_0.2-0.3	Oct 20, 2021		Soil	S21-No02775					X													
221	TP103_0.2-0.3	Oct 20, 2021		Soil	S21-No02776					X													
222	TP104_0.2-0.3	Oct 20, 2021		Soil	S21-No02777					X													
223	TP105_0.2-0.3	Oct 20, 2021		Soil	S21-No02778					X													
224	TP106_0.2-0.3	Oct 20, 2021		Soil	S21-No02779					X													
225	TP107_0.2-0.3	Oct 20, 2021		Soil	S21-No02780					X													
226	TP108_0.2-0.3	Oct 20, 2021		Soil	S21-No02781					X													
227	TP109_0.2-0.3	Oct 20, 2021		Soil	S21-No02782					X													
228	TP110_0.2-0.3	Oct 20, 2021		Soil	S21-No02783					X													
229	TP111_0.2-0.3	Oct 20, 2021		Soil	S21-No02784					X													

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
230	TP112_0.2-0.3	Oct 20, 2021						X												
231	TP113_0.2-0.3	Oct 20, 2021						X												
232	TP114_0.2-0.3	Oct 20, 2021						X												
233	TP115_0.2-0.3	Oct 20, 2021						X												
234	TP116_0.2-0.3	Oct 20, 2021						X												
235	TP117_0.2-0.3	Oct 20, 2021						X												
236	TP118_0.2-0.3	Oct 20, 2021						X												
237	TP119_0.2-0.3	Oct 20, 2021						X												
238	TP121_0.2-0.3	Oct 20, 2021						X												
239	TP122_0.2-0.3	Oct 20, 2021						X												
240	TP123_0.2-0.3	Oct 20, 2021						X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
241	TP124_0.2-0.3	Oct 20, 2021						X												
242	TP125_0.2-0.3	Oct 20, 2021						X												
243	TP126_0.2-0.3	Oct 20, 2021						X												
244	TP127_0.2-0.3	Oct 21, 2021						X												
245	TP128_0.2-0.3	Oct 21, 2021						X												
246	TP129_0.2-0.3	Oct 21, 2021						X												
247	TP131_0.2-0.3	Oct 21, 2021						X												
248	TP132_0.2-0.3	Oct 21, 2021						X												
249	TP133_0.2-0.3	Oct 21, 2021						X												
250	TP134_0.2-0.3	Oct 21, 2021						X												
251	TP135_0.2-0.3	Oct 21, 2021						X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
252	TP136_0.2-0.3	Oct 21, 2021		Soil	S21-No02807					X													
Test Counts						8	8	30	8	119	30	30	30	28	7	2	121	42	4	5	10		

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

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

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

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ug/L: micrograms per litre
ppm: Parts per million	ppb: Parts per billion	%: Percentage
org/100mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

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

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	89			70-130	Pass	
TRH C10-C14	%	95			70-130	Pass	
Naphthalene	%	99			70-130	Pass	
Naphthalene	%	78			70-130	Pass	
TRH C6-C10	%	87			70-130	Pass	
TRH C6-C10	%	80			70-130	Pass	
TRH >C10-C16	%	95			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	90			70-130	Pass	
Ethylbenzene	%	90			70-130	Pass	
m&p-Xylenes	%	90			70-130	Pass	
o-Xylene	%	88			70-130	Pass	
Xylenes - Total*	%	90			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	102			70-130	Pass	
Acenaphthylene	%	108			70-130	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Anthracene	%	113		70-130	Pass	
Benz(a)anthracene	%	98		70-130	Pass	
Benzo(a)pyrene	%	104		70-130	Pass	
Benzo(b&j)fluoranthene	%	106		70-130	Pass	
Benzo(g,h,i)perylene	%	95		70-130	Pass	
Benzo(k)fluoranthene	%	108		70-130	Pass	
Chrysene	%	99		70-130	Pass	
Dibenz(a,h)anthracene	%	89		70-130	Pass	
Fluoranthene	%	104		70-130	Pass	
Fluorene	%	109		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	94		70-130	Pass	
Naphthalene	%	102		70-130	Pass	
Phenanthrene	%	101		70-130	Pass	
Pyrene	%	105		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	96		80-120	Pass	
Cadmium	%	98		80-120	Pass	
Chromium	%	98		80-120	Pass	
Copper	%	98		80-120	Pass	
Lead	%	96		80-120	Pass	
Mercury	%	97		80-120	Pass	
Nickel	%	97		80-120	Pass	
Zinc	%	94		80-120	Pass	
LCS - % Recovery						
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	84		70-130	Pass	
Resistivity*	%	84		70-130	Pass	
LCS - % Recovery						
Organochlorine Pesticides						
Chlordanes - Total	%	79		70-130	Pass	
4,4'-DDD	%	77		70-130	Pass	
4,4'-DDE	%	78		70-130	Pass	
4,4'-DDT	%	83		70-130	Pass	
a-HCH	%	78		70-130	Pass	
Aldrin	%	77		70-130	Pass	
b-HCH	%	76		70-130	Pass	
d-HCH	%	74		70-130	Pass	
Dieldrin	%	80		70-130	Pass	
Endosulfan I	%	79		70-130	Pass	
Endosulfan II	%	74		70-130	Pass	
Endosulfan sulphate	%	89		70-130	Pass	
Endrin	%	89		70-130	Pass	
Endrin aldehyde	%	81		70-130	Pass	
Endrin ketone	%	85		70-130	Pass	
g-HCH (Lindane)	%	78		70-130	Pass	
Heptachlor	%	87		70-130	Pass	
Heptachlor epoxide	%	77		70-130	Pass	
Hexachlorobenzene	%	74		70-130	Pass	
Methoxychlor	%	91		70-130	Pass	
LCS - % Recovery						
Polychlorinated Biphenyls						
Aroclor-1016	%	71		70-130	Pass	
Aroclor-1260	%	73		70-130	Pass	
LCS - % Recovery						

Test		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Volatile Organics								
1.1-Dichloroethene		%	89			70-130	Pass	
1.1.1-Trichloroethane		%	88			70-130	Pass	
1.2-Dichlorobenzene		%	97			70-130	Pass	
1.2-Dichloroethane		%	102			70-130	Pass	
Benzene		%	93			70-130	Pass	
Ethylbenzene		%	87			70-130	Pass	
m&p-Xylenes		%	87			70-130	Pass	
o-Xylene		%	87			70-130	Pass	
Toluene		%	90			70-130	Pass	
Trichloroethene		%	96			70-130	Pass	
Xylenes - Total*		%	87			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Heavy Metals								
				Result 1				
Arsenic	S21-No02558	CP	%	87		75-125	Pass	
Cadmium	S21-No02558	CP	%	96		75-125	Pass	
Chromium	S21-No02558	CP	%	87		75-125	Pass	
Copper	S21-No02558	CP	%	89		75-125	Pass	
Lead	S21-No02558	CP	%	83		75-125	Pass	
Mercury	S21-No02558	CP	%	100		75-125	Pass	
Nickel	S21-No02558	CP	%	88		75-125	Pass	
Zinc	S21-No02558	CP	%	86		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons								
				Result 1				
TRH C6-C9	S21-No02584	CP	%	83		70-130	Pass	
Naphthalene	S21-No02584	CP	%	77		70-130	Pass	
TRH C6-C10	S21-No02584	CP	%	80		70-130	Pass	
Spike - % Recovery								
BTEX								
				Result 1				
Benzene	S21-No02584	CP	%	89		70-130	Pass	
Toluene	S21-No02584	CP	%	87		70-130	Pass	
Ethylbenzene	S21-No02584	CP	%	82		70-130	Pass	
m&p-Xylenes	S21-No02584	CP	%	84		70-130	Pass	
o-Xylene	S21-No02584	CP	%	84		70-130	Pass	
Xylenes - Total*	S21-No02584	CP	%	84		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons								
				Result 1				
Acenaphthene	S21-No02586	CP	%	83		70-130	Pass	
Acenaphthylene	S21-No02586	CP	%	87		70-130	Pass	
Anthracene	S21-No02586	CP	%	87		70-130	Pass	
Benz(a)anthracene	S21-No02586	CP	%	84		70-130	Pass	
Benzo(a)pyrene	S21-No02586	CP	%	85		70-130	Pass	
Benzo(b&j)fluoranthene	S21-No02586	CP	%	88		70-130	Pass	
Benzo(g,h,i)perylene	S21-No02586	CP	%	77		70-130	Pass	
Benzo(k)fluoranthene	S21-No02586	CP	%	83		70-130	Pass	
Chrysene	S21-No02586	CP	%	73		70-130	Pass	
Dibenz(a,h)anthracene	S21-No02586	CP	%	80		70-130	Pass	
Fluoranthene	S21-No02586	CP	%	81		70-130	Pass	
Fluorene	S21-No02586	CP	%	85		70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-No02586	CP	%	82		70-130	Pass	
Naphthalene	S21-No02586	CP	%	81		70-130	Pass	
Phenanthrene	S21-No02586	CP	%	78		70-130	Pass	
Pyrene	S21-No02586	CP	%	84		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	S21-No02586	CP	%	83		70-130	Pass	
4.4'-DDD	S21-No02586	CP	%	74		70-130	Pass	
4.4'-DDE	S21-No02586	CP	%	87		70-130	Pass	
a-HCH	S21-No02586	CP	%	77		70-130	Pass	
Aldrin	S21-No02586	CP	%	87		70-130	Pass	
b-HCH	S21-No02586	CP	%	75		70-130	Pass	
d-HCH	S21-No02586	CP	%	81		70-130	Pass	
Dieldrin	S21-No02586	CP	%	82		70-130	Pass	
Endosulfan I	S21-No02586	CP	%	78		70-130	Pass	
Endosulfan II	S21-No02586	CP	%	80		70-130	Pass	
Endosulfan sulphate	S21-No02586	CP	%	78		70-130	Pass	
Endrin	S21-No02586	CP	%	78		70-130	Pass	
Endrin ketone	S21-No02586	CP	%	76		70-130	Pass	
g-HCH (Lindane)	S21-No02586	CP	%	86		70-130	Pass	
Heptachlor	S21-No02586	CP	%	77		70-130	Pass	
Heptachlor epoxide	S21-No02586	CP	%	83		70-130	Pass	
Hexachlorobenzene	S21-No02586	CP	%	82		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	S21-No02586	CP	%	85		70-130	Pass	
Aroclor-1260	S21-No02586	CP	%	84		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-No02600	CP	%	98		75-125	Pass	
Cadmium	S21-No02600	CP	%	102		75-125	Pass	
Chromium	S21-No02600	CP	%	95		75-125	Pass	
Copper	S21-No02600	CP	%	88		75-125	Pass	
Lead	S21-No02600	CP	%	89		75-125	Pass	
Mercury	S21-No02600	CP	%	98		75-125	Pass	
Nickel	S21-No02600	CP	%	92		75-125	Pass	
Zinc	S21-No02600	CP	%	124		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C10-C14	S21-No02601	CP	%	108		70-130	Pass	
TRH >C10-C16	S21-No02601	CP	%	102		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-No02602	CP	%	90		75-125	Pass	
Cadmium	S21-No02602	CP	%	91		75-125	Pass	
Chromium	S21-No02602	CP	%	83		75-125	Pass	
Copper	S21-No02602	CP	%	86		75-125	Pass	
Mercury	S21-No02602	CP	%	97		75-125	Pass	
Nickel	S21-No02602	CP	%	87		75-125	Pass	
Zinc	S21-No02602	CP	%	89		75-125	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S21-No02607	CP	%	86		70-130	Pass	
Acenaphthylene	S21-No02607	CP	%	84		70-130	Pass	
Anthracene	S21-No02607	CP	%	90		70-130	Pass	
Benz(a)anthracene	S21-No02607	CP	%	79		70-130	Pass	
Benzo(a)pyrene	S21-No02607	CP	%	88		70-130	Pass	
Benzo(b&j)fluoranthene	S21-No02607	CP	%	84		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Benzo(g,h,i)perylene	S21-No02607	CP	%	76		70-130	Pass	
Benzo(k)fluoranthene	S21-No02607	CP	%	96		70-130	Pass	
Chrysene	S21-No02607	CP	%	81		70-130	Pass	
Dibenz(a,h)anthracene	S21-No02607	CP	%	70		70-130	Pass	
Fluoranthene	S21-No02607	CP	%	80		70-130	Pass	
Fluorene	S21-No02607	CP	%	90		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S21-No02607	CP	%	74		70-130	Pass	
Naphthalene	S21-No02607	CP	%	87		70-130	Pass	
Phenanthrene	S21-No02607	CP	%	79		70-130	Pass	
Pyrene	S21-No02607	CP	%	79		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	S21-No02607	CP	%	78		70-130	Pass	
4,4'-DDD	S21-No02607	CP	%	88		70-130	Pass	
4,4'-DDE	S21-No02607	CP	%	77		70-130	Pass	
4,4'-DDT	S21-No02607	CP	%	86		70-130	Pass	
a-HCH	S21-No02607	CP	%	70		70-130	Pass	
Aldrin	S21-No02607	CP	%	78		70-130	Pass	
b-HCH	S21-No02607	CP	%	73		70-130	Pass	
d-HCH	S21-No02607	CP	%	71		70-130	Pass	
Dieldrin	S21-No02607	CP	%	81		70-130	Pass	
Endosulfan II	S21-No02607	CP	%	81		70-130	Pass	
Endosulfan sulphate	S21-No02607	CP	%	75		70-130	Pass	
Endrin	S21-No02607	CP	%	92		70-130	Pass	
Endrin ketone	S21-No02607	CP	%	77		70-130	Pass	
g-HCH (Lindane)	S21-No02607	CP	%	76		70-130	Pass	
Heptachlor	S21-No02607	CP	%	84		70-130	Pass	
Hexachlorobenzene	S21-No02607	CP	%	75		70-130	Pass	
Methoxychlor	S21-No02607	CP	%	104		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	S21-No02607	CP	%	71		70-130	Pass	
Aroclor-1260	S21-No02607	CP	%	73		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-No02633	CP	%	84		75-125	Pass	
Cadmium	S21-No02633	CP	%	90		75-125	Pass	
Chromium	S21-No02633	CP	%	89		75-125	Pass	
Copper	S21-No02633	CP	%	85		75-125	Pass	
Lead	S21-No02633	CP	%	83		75-125	Pass	
Mercury	S21-No02633	CP	%	88		75-125	Pass	
Nickel	S21-No02633	CP	%	88		75-125	Pass	
Zinc	S21-No02633	CP	%	93		75-125	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-No02653	CP	%	107		75-125	Pass	
Cadmium	S21-No02653	CP	%	96		75-125	Pass	
Chromium	S21-No02653	CP	%	89		75-125	Pass	
Copper	S21-No02653	CP	%	85		75-125	Pass	
Lead	S21-No02653	CP	%	88		75-125	Pass	
Mercury	S21-No02653	CP	%	93		75-125	Pass	
Nickel	S21-No02653	CP	%	85		75-125	Pass	
Zinc	S21-No02653	CP	%	98		75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-No02562	CP	uS/cm	46	33	32	30%	Fail	Q15
pH (1:5 Aqueous extract at 25°C as rec.)	S21-No02562	CP	pH Units	6.3	6.4	<1	30%	Pass	
Resistivity*	S21-No02562	CP	ohm.m	220	300	32	30%	Fail	Q02
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-No02567	CP	%	21	20	5.0	30%	Pass	
Chloride	W21-No03078	NCP	mg/kg	69	68	1.0	30%	Pass	
Sulphate (as SO4)	W21-No03078	NCP	mg/kg	44	44	1.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-No02575	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S21-No02575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-No02575	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-No02575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-No02575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-No02575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-No02575	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-No02575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-No02575	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-No02579	CP	%	8.5	9.5	11	30%	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-No02579	CP	uS/cm	31	29	7.0	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S21-No02579	CP	pH Units	6.6	6.5	<1	30%	Pass	
Resistivity*	S21-No02579	CP	ohm.m	320	340	7.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S21-No02585	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-No02585	CP	mg/kg	68	62	8.0	30%	Pass	
TRH C29-C36	S21-No02585	CP	mg/kg	110	97	12	30%	Pass	
TRH >C10-C16	S21-No02585	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-No02585	CP	mg/kg	150	130	11	30%	Pass	
TRH >C34-C40	S21-No02585	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Naphthalene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-No02589	CP	mg/kg	3.7	6.2	50	30%	Fail Q15
Cadmium	S21-No02589	CP	mg/kg	< 0.4	0.6	47	30%	Fail Q15
Chromium	S21-No02589	CP	mg/kg	7.5	12	48	30%	Fail Q15
Copper	S21-No02589	CP	mg/kg	11	17	39	30%	Fail Q15
Lead	S21-No02589	CP	mg/kg	13	20	40	30%	Fail Q15
Mercury	S21-No02589	CP	mg/kg	1.4	2.2	43	30%	Fail Q02
Nickel	S21-No02589	CP	mg/kg	< 5	6.9	34	30%	Fail Q15
Zinc	S21-No02589	CP	mg/kg	37	61	50	30%	Fail Q15
Duplicate								
% Moisture				Result 1	Result 2	RPD		
% Moisture	S21-No02589	CP	%	6.9	6.6	5.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-No02590	CP	mg/kg	16	8.3	65	30%	Fail Q15
Cadmium	S21-No02590	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S21-No02590	CP	mg/kg	30	16	61	30%	Fail Q15
Copper	S21-No02590	CP	mg/kg	47	26	58	30%	Fail Q15

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S21-No02590	CP	mg/kg	36	19	62	30%	Fail	Q15
Mercury	S21-No02590	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-No02590	CP	mg/kg	25	14	56	30%	Fail	Q15
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-No02600	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-No02600	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-No02600	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-No02600	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-No02600	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-No02600	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-No02600	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-No02600	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-No02600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-No02600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-No02600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-No02600	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-No02600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-No02600	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)anthracene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
% Moisture	S21-No02601	CP	%	20	20	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1,1-Dichloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,1-Dichloroethene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,1,1-Trichloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,1,1,2-Tetrachloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,1,2-Trichloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,1,2,2-Tetrachloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,2-Dibromoethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,2-Dichlorobenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,2-Dichloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.2-Dichloropropane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.2-Dichloroethene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	S21-No02606	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S21-No02606	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S21-No02606	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C10-C16	S21-No02606	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S21-No02606	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S21-No02606	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(g,h,i)perylene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-No02611	CP	mg/kg	7.0	8.6	20	30%	Pass	
Cadmium	S21-No02611	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-No02611	CP	mg/kg	18	20	13	30%	Pass	
Copper	S21-No02611	CP	mg/kg	25	31	21	30%	Pass	
Lead	S21-No02611	CP	mg/kg	18	20	12	30%	Pass	
Mercury	S21-No02611	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-No02611	CP	mg/kg	9.2	12	28	30%	Pass	
Zinc	S21-No02611	CP	mg/kg	35	45	26	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-No02613	CP	mg/kg	7.3	6.3	15	30%	Pass	
Cadmium	S21-No02613	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-No02613	CP	mg/kg	19	18	6.0	30%	Pass	
Copper	S21-No02613	CP	mg/kg	26	25	7.0	30%	Pass	
Lead	S21-No02613	CP	mg/kg	24	24	2.0	30%	Pass	
Mercury	S21-No02613	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-No02613	CP	mg/kg	17	15	14	30%	Pass	
Zinc	S21-No02613	CP	mg/kg	59	52	13	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S21-No02618	CP	mg/kg	22	25	13	30%	Pass	
TRH C15-C28	S21-No02618	CP	mg/kg	170	190	10	30%	Pass	
TRH C29-C36	S21-No02618	CP	mg/kg	110	160	34	30%	Fail	Q15
TRH >C10-C16	S21-No02618	CP	mg/kg	94	100	7.0	30%	Pass	
TRH >C16-C34	S21-No02618	CP	mg/kg	180	220	21	30%	Pass	
TRH >C34-C40	S21-No02618	CP	mg/kg	< 100	100	43	30%	Fail	Q15
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Phenanthrene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
% Moisture	S21-No02623	CP	%	22	22	1.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-No02624	CP	mg/kg	4.7	5.7	20	30%	Pass
Cadmium	S21-No02624	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S21-No02624	CP	mg/kg	21	24	11	30%	Pass
Copper	S21-No02624	CP	mg/kg	29	36	22	30%	Pass
Lead	S21-No02624	CP	mg/kg	15	18	20	30%	Pass
Mercury	S21-No02624	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S21-No02624	CP	mg/kg	16	19	12	30%	Pass
Zinc	S21-No02624	CP	mg/kg	43	52	18	30%	Pass
Duplicate								
% Moisture	S21-No02633	CP	%	10	9.8	7.0	30%	Pass

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-No02634	CP	mg/kg	10	15	39	30%	Fail	Q15
Cadmium	S21-No02634	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-No02634	CP	mg/kg	19	26	34	30%	Fail	Q15
Copper	S21-No02634	CP	mg/kg	28	40	34	30%	Fail	Q15
Lead	S21-No02634	CP	mg/kg	24	34	37	30%	Fail	Q15
Mercury	S21-No02634	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-No02634	CP	mg/kg	19	28	36	30%	Fail	Q15
Zinc	S21-No02634	CP	mg/kg	58	85	38	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-No02642	CP	uS/cm	29	25	15	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S21-No02642	CP	pH Units	6.0	6.0	<1	30%	Pass	
Resistivity*	S21-No02642	CP	ohm.m	340	400	15	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-No02643	CP	%	18	21	17	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-No02653	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S21-No02653	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-No02653	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-No02653	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-No02653	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-No02653	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-No02653	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-No02653	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-No02653	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-No02657	CP	%	14	14	3.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-No02667	CP	%	11	9.1	16	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S21-No02667	CP	pH Units	7.5	7.1	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q02	The duplicate %RPD is outside the recommended acceptance criteria. Further analysis indicates sample heterogeneity as the cause
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Emma Beesley	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Alliance Geotechnical
10 Welder Road
Seven Hills
NSW 2147



NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: **Sam Jones**

Report **838861-W**
 Project name **ADDITIONAL: KEMPS CREEK**
 Project ID **13546**
 Received Date **Nov 03, 2021**

Client Sample ID			SW16	SW09
Sample Matrix			Water	Water
Eurofins Sample No.			S21-No17038	S21-No17039
Date Sampled			Sep 19, 2021	Sep 15, 2021
Test/Reference	LOR	Unit		
Hardness mg equivalent CaCO3/L	1	mg/L	210	110
Alkali Metals				
Calcium	0.5	mg/L	45	15
Magnesium	0.5	mg/L	25	16

Sample History

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

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Hardness Set			
Hardness mg equivalent CaCO ₃ /L - Method: E020.1 Hardness in water	Sydney	Nov 10, 2021	28 Days
Alkali Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 10, 2021	180 Days

Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: ADDITIONAL: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 838861
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Nov 3, 2021 3:39 PM
Due: Nov 10, 2021
Priority: 5 Day
Contact Name: Sam Jones

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						CANCELLED	Hardness Set
Melbourne Laboratory - NATA # 1261 Site # 1254							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
Brisbane Laboratory - NATA # 1261 Site # 20794							
Mayfield Laboratory - NATA # 1261 Site # 25079							
Perth Laboratory - NATA # 2377 Site # 2370							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	SW16	Sep 19, 2021		Water	S21-No17038		X
2	SW09	Sep 15, 2021		Water	S21-No17039		X
3	SW02	Sep 22, 2021		Water	S21-No17040	X	
Test Counts						1	2

Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
- All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
- SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- Samples were analysed on an 'as received' basis.
- Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
- This report replaces any interim results previously issued.

Holding Times

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

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

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

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

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

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

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

- Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test				Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code		
Method Blank											
Alkali Metals											
Calcium				mg/L	< 0.5		0.5	Pass			
Magnesium				mg/L	< 0.5		0.5	Pass			
LCS - % Recovery											
Alkali Metals											
Calcium				%	96		80-120	Pass			
Magnesium				%	96		80-120	Pass			
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code		
Spike - % Recovery											
Alkali Metals											
Calcium					Result 1						
Calcium				S21-No18514	NCP	%	95	75-125	Pass		
Magnesium				S21-No18514	NCP	%	94	75-125	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code		
Duplicate											
					Result 1	Result 2	RPD				
Hardness mg equivalent CaCO ₃ /L				S21-No06322	NCP	mg/L	58	58	1.0	30%	Pass
Duplicate											
Alkali Metals											
					Result 1	Result 2	RPD				
Calcium				S21-No06322	NCP	mg/L	16	17	1.0	30%	Pass
Magnesium				S21-No06322	NCP	mg/L	4.0	4.1	2.0	30%	Pass

Comments**Sample Integrity**

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	No
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

Andrew Black Analytical Services Manager
John Nguyen Senior Analyst-Metal (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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APPENDIX C – Data Quality Indicator (DQI) Assessment

Completeness DQI			
<i>Field Considerations</i>	<i>Target Criterion</i>	<i>Result</i>	<i>Pass / Fail / Comment</i>
Experienced sampling team used	Yes	Yes	Pass
Sampling devices and equipment set out in sampling plan were used (refer Section 7.7).	Yes	Yes	Pass
Critical locations in sampling plan, sampled (refer Section 7.7).	Yes	No	AEC13, 15, 22, 23, 32, 33, & 34 precluded from assessment due to existing hardstands and ongoing demolition – data gap assessment recommended. Dam walls precluded as material was consistent with in-situ materials with no visual evidence of foreign materials – assessment deemed unwarranted, except for AEC19 dam walls, where foreign materials were observed, and sampling undertaken. Performance against this DQI is considered adequate.
Critical samples in sampling plan, collected (refer Section 7.7).	Yes	No	Comment as above.
Completed field and calibration logs attached	Yes	Yes	Pass
Completed chain of custody attached	Yes	Yes	Pass
<i>Laboratory</i>	<i>Target Criterion</i>	<i>Result</i>	<i>Pass / Fail / Comment</i>
Complete sample receipt advice and chain of custody attached	Yes	Yes	Pass

<p>Critical samples identified in sampling plan, analysed</p>	<p>Yes</p>	<p>No</p>	<p>AEC13, 15, 22, 23, 32, 33, & 34 precluded from assessment due to existing hardstands and ongoing demolition – data gap assessment recommended. Dam walls precluded as material was consistent with in-situ materials, with no visual evidence of foreign materials observed – assessment deemed unwarranted, except for AEC19 dam walls, where foreign materials were observed, and sampling undertaken. TP63, TP64, TP65 & TP66 did not have all COPCs analysed due to transcription errors. Considering results of test pits within the vicinity, with respect to the same COPCs, and the relatively low levels of heavy metals analysed, Alliance considers it unlikely that an unacceptable human health risk would be present. Performance against this DQI is considered adequate.</p>
<p>Analysis undertaken addresses COPC in sampling plan (refer Section 7.7)</p>	<p>Yes</p>	<p>Yes</p>	<p>Pass</p>

<p>Analytical methods reported in laboratory documentation and appropriate limit of reporting used</p>	<p>Yes</p>	<p>No</p>	<p>Alliance notes that the laboratory limit of reporting (LOR) for water samples for a number of PAH compounds was greater than the relevant adopted assessment criterion. On that basis, the potential for concentrations of PAH compounds to be present in dam water above those criterion, cannot be precluded. However, based on the nature of identified land use activities and the laboratory analytical results of soil and sediment samples collected from site, it is the opinion of Alliance that the potential for PAH compounds to be present in dam water at concentrations greater than the adopted criterion, to be low. Performance against this DQI is considered adequate.</p>
<p>Sample holding times met (refer Section 7.7)</p>	<p>Yes</p>	<p>No</p>	<p>The laboratory reported that the holding time for some analyses had been exceeded. Section 4.4.1 in NEPC (2013c) advises that holding times are recommended only, that analytes such as metals and some semi-volatile organics (including PCB and PAH) are persistent in the environment and are not likely to change significantly after sampling, and that analysis slightly outside of holding time is not likely to cause significant variation in results if samples have been handled and stored correctly. Performance against this DQI is considered adequate.</p>

Comparability			
<i>Laboratory Considerations</i>	<i>Target Criterion</i>	<i>Result</i>	<i>Pass / Fail / Comment</i>
Same sampling team used for all work.	Yes	Yes	Pass
Weather conditions suitable for sampling.	Yes	Yes	Pass
Same sample types collected and preserved in same way (refer Section 7.7).	Yes	Yes	Pass
Relevant samples stored in insulated containers and chilled (refer Section 7.7).	Yes	Yes	Pass
<i>Laboratory Considerations</i>	<i>Target Criterion</i>	<i>Result</i>	<i>Pass / Fail / Comment</i>
Same laboratory used for all analysis (refer Section 7.7).	Yes	Yes	Pass
Comparable methods if different laboratories used Refer Section 7.7).	Yes	Yes	Pass
Comparable limits of reporting if different laboratories used.	Yes	Yes	Pass
Comparable units of measure if different laboratories have been used (refer Section 7.7).	Yes	Yes	Pass

Representativeness			
<i>Field Considerations</i>	<i>Target Criterion</i>	<i>Result</i>	<i>Pass / Fail / Comment</i>
Media identified in sampling plan, sampled (refer Section 7.7).	Yes	Yes	Pass
Samples required by sampling plan, collected (refer Section 7.7).	Yes	No	AEC13, 15, 22, 23, 32, 33, & 34 precluded from assessment due to existing hardstands and ongoing demolition – data gap assessment recommended. Dam walls precluded as material was consistent with in-situ materials, with no visual evidence of foreign materials observed – assessment deemed unwarranted, except for AEC19 dam walls, where foreign materials were observed, and sampling undertaken. Performance against this DQI is considered adequate.
<i>Laboratory Considerations</i>	<i>Target Criterion</i>	<i>Result</i>	<i>Pass / Fail / Comment</i>
Samples identified in sampling plan, analysed.	Yes	No	Comment as above

Precision			
<i>Field Considerations</i>	<i>Target Criterion</i>	<i>Result</i>	<i>Pass / Fail / Comment</i>
Minimum 5% duplicates and triplicates collected and analysed (refer Section 7.5).	Yes	Yes	Pass
RPD unlimited where detected concentrations are <10 times the limit of reporting.	Yes	Yes	Pass
RPD within 50% where detected concentrations are 10-20 times the limit of reporting.	Yes	No	Primary samples were not homogenised prior to splitting, as volatiles were identified as a COPC. The RPD target exceedance is considered likely to be attributable to heterogeneity in each of the discrete soil samples. As a conservative measure, the samples reporting the higher detected concentration of relevant analytes should be used when assessing potential land contamination risks at the site. Performance against this DQI is considered adequate.
RPD within 30% where detected concentrations are >20 times the limit of reporting.	Yes	No	Comment as above
<i>Laboratory Considerations</i>	<i>Target Criterion</i>	<i>Result</i>	<i>Pass / Fail / Comment</i>
All laboratory duplicate RPDs within laboratory acceptance criteria (refer Section 7.5).	Yes	No	Lab soil sample ID S21-Oc38499 in lab report 833263 exceeded RPD criteria for zinc, as did lab soil sample S21-No02589 in lab report 836977 for mercury. Sample heterogeneity was stated as the cause and is therefore not considered to impact upon laboratory reliability. All other laboratory RPD exceedances were within Eurofins acceptance criteria. Performance against this DQI is considered adequate
Bias (Accuracy)			
<i>Field Considerations</i>	<i>Target Criterion</i>	<i>Result</i>	<i>Pass / Fail / Comment</i>
Trip blank analyte results less than limit of reporting (refer Section 7.5).	Yes	Yes	Pass
Trip spike analyte results less between 60% and 140% (refer Section 7.5).	Yes	Yes	Pass

Rinsate blank analyte results less than limit of reporting (refer Section 7.5).	Yes	No	A rinsate blank was not used for this project. Re-usable sampling equipment was not used for this project. The samples were collected either directly from the base/wall of the test pits, or from the centre of the soils in the excavator bucket, using a fresh pair of nitrile gloves for each sample. The risk of cross contamination during sampling is considered to be negligible. Performance against this DQI is considered adequate.
<i>Laboratory Considerations</i>	<i>Target Criterion</i>	<i>Result</i>	<i>Pass / Fail / Comment</i>
Laboratory method blank results within laboratory acceptance limits (refer Section 7.5).	Yes	Yes	Pass
Laboratory control sample results within laboratory acceptance limits (refer Section 7.5).	Yes	Yes	Pass
Laboratory spike sample results within laboratory acceptance limits.	Yes	Yes	Pass

APPENDIX D – Calibration Records

Company Name	WAM Scientific
Office Address	26 Bungarra Crescent, Chipping Norton NSW 2170
Phone Number	+61 405 241 484
Contact Name	William Pak
Instrument	YSI Professional Plus Water Quality Meter w/ 1m Quatro Cable
Serial Number	20D102896
Client Name	Jacob Walker (Alliance Geotechnical)
Project Number	13546
Comments	-

Instrument Check

Item	Test	Test Passed	Comments
2 x Alkaline C-size Batteries	Klein Tools MM300 Multimeter	✓	Both batteries reading above 2.9V
Battery Saver Function	Operation	✓	Automatically turns off after 60 minutes if idle
Unit Display	Operation	✓	Screen visible, no damage
Keypad	Operation	✓	Responsive, no damage
Connection Port and Cable	Condition/Check	✓	Clean, no damage
Monitor Housing	Condition/Check	✓	No damage
Firmware	Version	✓	4.0.0
pH Probe	Condition/Calibration	✓	Calibrated and conforms to manufacturer's specs
pH millivolts for pH 7.00	Calibration	✓	pH 7.00 calibration range between 0 mV ± 50 mV
pH millivolts for pH 4.00	Calibration	✓	pH 4 mV range +165 to +180 from 7 buffer mV value
pH slope	Calibration	✓	Range between 55 to 60 mV/pH (ideal value 59 mV)
Response time < 90 seconds	Calibration	✓	Responds to correct value within 90 seconds
ORP Probe	Condition/Calibration	✓	Calibrated and conforms to manufacturer's specs
ORP Reading	Calibration	✓	Within ± 80 mV of reference Zobell Reading
Response time < 90 seconds	Calibration	✓	Responds to correct value within 90 seconds
Conductivity/Temp Probe	Condition/Calibration	✓	Calibrated and conforms to manufacturer's specs
Conductivity Cell	Calibration	✓	Conductivity cell constant 5.0 ± 1.0 in GLP file
Clean Sensor Readings	Calibration	✓	Clean sensor reads less than 3 uS/cm in dry air
Dissolved Oxygen Probe	Condition/Calibration	✓	Calibrated and conforms to manufacturer's specs
DO Cap	Condition/Calibration	✓	1.25 mil PE membrane (yellow membrane)
DO Sensor in Use	Condition	✓	Polarographic DO sensor
DO Sensor Value	Calibration	✓	(min 4.31 uA - max 8.00 uA) Avg 6.15 uA

Instrument Readings

Parameter	Standard Used	Reference No.	Calibration Value	Observed	Actual	Units
Temperature	Centre 370 Thermometer	Room Temp.	17.5	17.1	17.5	°C
pH	pH 4.00	351750	4.01	4.53	4.01	pH
pH	pH 7.00	351621	7.00	6.98	7.00	pH
Conductivity	2760 µS/cm at 25°C	362912	2760	2784	2760	µS/cm
ORP (Ref. check only)	Zobell A & B	364644/363903	241.6	192.1	241.6	mV
Zero Dissolved O ₂	NaSO ₃ in Distilled H ₂ O	362832	0.0	0.1	0.0	%
100% Dissolved O ₂	100% Air Saturated H ₂ O	Fresh Air	100.0	106.3	100.0	%

Declaration

WAM Scientific certifies that the above instrument was successfully tested according to manufacturer's standards and all necessary checks were conducted to ensure the instrument was fully operational prior to dispatch. The calibration data supplied was obtained in accordance with manufacturer's specifications using solutions of known values.

Calibrated By	William Pak
Calibration Date	20/10/2021
Calibration Due	20/04/2022

Company Name	WAM Scientific
Office Address	26 Bungarra Crescent, Chipping Norton NSW 2170
Phone Number	+61 405 241 484
Contact Name	William Pak
Instrument	MiniRAE 3000 (PGM 7320)
Serial Number	592-912870
Client Name	Jacob Walker (Alliance Geotechnical)
Project Number	8978

Instrument Check			
Item	Test	Test Passed	Comments
Li-Ion Rechargeable Battery	Battery Charge and Drain	✓	Unit runs for > 8 hours on a full charge
Charger and Power Supply	Operation/Check	✓	No damage
Unit Display	Operation	✓	Screen visible, no damage
Keypad	Operation	✓	Responsive, no damage
Pump	Flow Check	✓	Flow rate > 0.5 L/min
Monitor Housing	Condition/Check	✓	No damage
Rubber Boot	Check	✓	Clean, no damage
Flexi Probe	Condition/Check	✓	No leaks, no damage
Water Trap Filter	Visual Check	✓	Clean
Alarms	Audible, Visual, Vibration Check	✓	All modes of alarms are functional
Data Logger	Operation	✓	Unit records data, default set at 60 seconds
Lamp and Sensor	Clean and Calibration	✓	Lamp and PID sensor cleaned and calibrated
PCB	Operation	✓	Unit is fully functional
Firmware	Version	✓	v2.20A

Instrument Readings					
Parameter	Calibration Gas	Concentration	Reference No.	Zero Reading	Span Reading
PID (10.6eV)	Isobutylene	100 ppm	WO227494-34	0 ppm	100.6 ppm

Declaration
WAM Scientific certifies that the above instrument was successfully tested according to manufacturer's standards and all necessary checks were conducted to ensure the instrument was fully operational prior to dispatch. The calibration data supplied was obtained in accordance with manufacturer's specifications using gases of known concentrations.

Calibrated By	William Pak
Calibration Date	18/09/2021
Calibration Due	18/03/2022

APPENDIX E – Alliance (2019) Logs, Summary Tables





Borehole Log

Client: ESR Group	Started: 4/10/19
Project: Proposed Industrial Subdivision	Finished: 4/10/19
Location: 290-308 Allington Road, Kemp's Creek NSW 2178	Borehole Size: 110mm
Rig Type: Hanjin 8D	Hole Location: Refer Drawing 9687-GR-1-A
RL Surface:	Driller: CB
Contractor: BG Drilling Pty Ltd	Bearing: ---
	Logged: MS
	Checked: LM

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
ADT	Groundwater Not Encountered			[Cross-hatched pattern]	--	FILL: Clay, medium to high plasticity, MC<PL, brown-grey, with silt (Appears moderately compacted).	DS	M	--	FILL
			1	[Diagonal lines pattern]	CH	CLAY, high plasticity, orange-brown mottled grey, MC<PL, trace silt, trace fine gravel.		M	St VSt	RESIDUAL
			2	[Horizontal lines pattern]	--	SHALE, extremely to highly weathered, very low strength, brown, with frequent clay layers.	DS	--	--	BEDROCK
			3			Borehole BH 01 terminated at 3m				
			4							
			5							
			6							

Borehole Log

Client: ESR Group	Started: 4/10/19
Project: Proposed Industrial Subdivision	Finished: 4/10/19
Location: 290-308 Allington Road, Kemps Creek NSW 2178	Borehole Size: 110mm
Rig Type: Hanjin 8D	Hole Location: Refer Drawing 9687-GR-1-A
RL Surface:	Driller: CB
	Contractor: BG Drilling Pty Ltd
	Bearing: ---
	Logged: MS
	Checked: LM

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations	
ADT	Groundwater Not Encountered		0		--	TOPSOIL/FILL: Silty Clay, low to medium plasticity, MC~PL, grey-brown, with rootlets	DS	M	--	TOPSOIL/FILL	
			1		CI-CH	CLAY, medium to high plasticity, MC>PL, red-brown mottled grey, trace fine gravel.	DS	M	F	RESIDUAL	
			2			-	- As above, but MC<PL	SPT 4, 5, 7 N=12	M	St	
			3		CI-CH	Silty CLAY, medium to high plasticity, MC<PL, orange-grey, with shale layers.	M	H			
			4			Borehole BH 02 terminated at 3.5m					
			5								
			6								

BOREHOLE (NO COORD/RL) 9687 - 290-308 ALLINGTON ROAD, KEMPS CREEK LOGS.GPJ GINT STD AUSTRALIA.GDT 18/10/19

Borehole Log

Client: ESR Group	Started: 4/10/19
Project: Proposed Industrial Subdivision	Finished: 4/10/19
Location: 290-308 Allington Road, Kemps Creek NSW 2178	Borehole Size: 110mm
Rig Type: Hanjin 8D	Hole Location: Refer Drawing 9687-GR-1-A
RL Surface:	Driller: CB
	Contractor: BG Drilling Pty Ltd
	Bearing: ---
	Logged: MS
	Checked: LM

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
ADT	Groundwater Not Encountered			0	--	TOPSOIL/FILL: Silty Clay, low plasticity, grey, trace fine gravel.	DS	D	--	TOPSOIL/FILL
				1	CI-CH	Silty CLAY, medium to high plasticity, MC~PL, orange-brown mottled grey.		M	St	RESIDUAL
				2	--	- As above, but MC<PL, with shale layers.	SPT 7, 25/120mm		H	
				3	--	SHALE, extremely to highly weathered, very low strength, grey-brown, with frequent clay layers.		D	--	BEDROCK
				4	--	SHALE, highly weathered, very low to low strength, grey.		D	--	
			5							
			6			Borehole BH 03 terminated at 3.1m				TC Bit Refusal

BOREHOLE (NO COORD/RL) 9687 - 290-308 ALDINGTON ROAD, KEMPS CREEK LOGS.GPJ GINT STD AUSTRALIA.GDT 18/10/19

Borehole Log

Client: ESR Group	Started: 4/10/19
Project: Proposed Industrial Subdivision	Finished: 4/10/19
Location: 290-308 Allington Road, Kemp's Creek NSW 2178	Borehole Size: 110mm
Rig Type: Hanjin 8D	Hole Location: Refer Drawing 9687-GR-1-A
RL Surface:	Driller: CB
	Contractor: BG Drilling Pty Ltd
	Bearing: ---
	Logged: MS
	Checked: LM




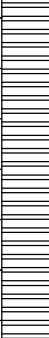
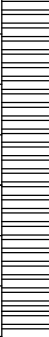

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
ADT			1	[Cross-hatch pattern]	--	FILL: Sandy Gravel, medium to coarse grained, well graded, fine to medium grained sand, grey-brown, with clay (Appears well compacted).	DS	D	--	FILL
				[Diagonal lines /]	CI	Silty CLAY, medium plasticity, orange-brown-grey, MC<PL, with shale gravel.	DS	D	H	RESIDUAL
				[Diagonal lines \]	CI	Silty CLAY, medium plasticity, orange-brown, MC<PL, with shale layers.		D	H	
			2	[Horizontal lines]	--	SHALE, extremely weathered, very low strength, grey-brown, with clay layers.		D	--	BEDROCK
			3	[Vertical lines]						
			4			Borehole BH 04 terminated at 3m				
			5							
			6							

BOREHOLE (NO COORD/RL) 9687 - 290-308 ALLINGTON ROAD, KEMPS CREEK LOGS.GPJ GINT STD AUSTRALIA.GDT 18/10/19

Groundwater Not Encountered

Borehole Log

Client: ESR Group	Started: 4/10/19
Project: Proposed Industrial Subdivision	Finished: 4/10/19
Location: 290-308 Allington Road, Kemp's Creek NSW 2178	Borehole Size: 110mm
Rig Type: Hanjin 8D	Hole Location: Refer Drawing 9687-GR-1-A
Driller: CB	Logged: MS
RL Surface:	Contractor: BG Drilling Pty Ltd
Bearing: ---	Checked: LM

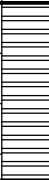
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations	
ADT			1		--	TOPSOIL/FILL: Silty Clay, low plasticity, trace fine sand, trace roots.	DS	D	--	TOPSOIL/FILL	
					CI-CH	Silty CLAY, medium plasticity, MC>PL, orange-brown mottled grey.		M	St	RESIDUAL	
						- As above but dry, hard.		D	H		
						- As above with shale layers.	SPT 10, 12, 18 N=30	D	H		
ADT			2		--	SHALE, highly weathered, very low to low strength, grey, with clay bands.		D	--	BEDROCK	
ADT			3		--	SHALE, highly weathered, low strength, dark grey.		D	--		
ADT			4		--						
ADT			5		--						
ADT			6		--						

BOREHOLE (NO COORD/RL) 9687 - 290-308 ALLINGTON ROAD, KEMPS CREEK LOGS.GPJ GINT STD AUSTRALIA.GDT 18/10/19

Groundwater Not Encountered






Borehole Log

Client: ESR Group	Started: 4/10/19
Project: Proposed Industrial Subdivision	Finished: 4/10/19
Location: 290-308 Allington Road, Kemps Creek NSW 2178	Borehole Size: 110mm
Rig Type: Hanjin 8D	Hole Location: Refer Drawing 9687-GR-1-A
Driller: CB	Logged: MS
RL Surface:	Contractor: BG Drilling Pty Ltd
Bearing: ---	Checked: LM

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
ADT					-	SHALE, highly weathered, low strength, dark grey. <i>(continued)</i>		D	--	
			7			Borehole BH 05 terminated at 6.7m				TC bit refusal
			8							
			9							
			10							
			11							
			12							

Borehole Log

Client: ESR Group	Started: 4/10/19
Project: Proposed Industrial Subdivision	Finished: 4/10/19
Location: 290-308 Allington Road, Kemp's Creek NSW 2178	Borehole Size: 110mm
Rig Type: Hanjin 8D	Hole Location: Refer Drawing 9687-GR-1-A
Driller: CB	Logged: MS
RL Surface:	Contractor: BG Drilling Pty Ltd
Bearing: ---	Checked: LM

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
ADT	Groundwater Not Encountered		1		--	TOPSOIL/FILL: Silty Clay, low plasticity, MC>PL, dark grey, trace fine sand, trace rootlets.	DS	M	--	TOPSOIL/FILL
					CH	CLAY, high plasticity, MC~PL, orange-brown mottled grey.		M	St	RESIDUAL
					-	SHALE, extremely to highly weathered, very low to low strength, grey-brown, with clay bands.		D	--	BEDROCK
					-		2			SPT 4, 12, 23 N=35
			3							
			4							
			5		-	SHALE, highly weathered, very low to low strength, dark grey.		D	--	
			6			Borehole BH 06 terminated at 5.7m				TC bit refusal

BOREHOLE (NO COORD/RL) 9687 - 290-308 ALLINGTON ROAD, KEMPS CREEK LOGS.GPJ GINT STD AUSTRALIA.GDT 18/10/19

Borehole Log

Client: ESR Group	Started: 4/10/19
Project: Proposed Industrial Subdivision	Finished: 4/10/19
Location: 290-308 Allington Road, Kemps Creek NSW 2178	Borehole Size: 110mm
Rig Type: Hanjin 8D	Hole Location: Refer Drawing 9687-GR-1-A
Driller: CB	Logged: MS
RL Surface:	Contractor: BG Drilling Pty Ltd
Bearing: ---	Checked: LM

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
ADT	Groundwater Not Encountered		1		--	TOPSOIL/FILL: Silty Clay, low plasticity, grey, with rootlets.		M	--	TOPSOIL/FILL
					CH	CLAY, high plasticity, MC-PL, pale grey mottled red, with silt.	DS	M	St	RESIDUAL
							DS			
					CI	Silty CLAY, medium plasticity, MC<PL, orange-brown mottled grey.		D	St - VSt	
					--	SHALE, extremely to highly weathered, very low strength, grey-brown, with clay bands.	SPT 3, 25/140mm Hammer Bounce	D	--	BEDROCK
			2		--	SHALE, highly weathered, very low to low strength, dark grey.		D	--	
			3							
			4			Borehole BH 07 terminated at 3.5m				TC bit refusal
			5							
			6							

BOREHOLE (NO COORD/RL) 9687 - 290-308 ALDINGTON ROAD, KEMPS CREEK LOGS.GPJ GINT STD AUSTRALIA.GDT 18/10/19

Borehole Log

Client: ESR Group	Started: 4/10/19
Project: Proposed Industrial Subdivision	Finished: 4/10/19
Location: 290-308 Allington Road, Kemps Creek NSW 2178	Borehole Size: 60mm
Rig Type: Hand Held Push Tube	Hole Location: Refer Drawing 9687-GR-1-A
Driller: JW	Logged: JW
RL Surface:	Contractor: Alliance Geotechnical Pty Ltd
Bearing: ---	Checked: LM

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
HA					-	FILL: Silty CLAY, brown.	DS	M	S	FILL
	Groundwater Not Encountered		0.5		CH	CLAY, pale brown and orange.	DS	M	St	RESIDUAL
			1.0							
			1.5							
			2.0			Borehole BH 08 terminated at 1.1m				

BOREHOLE (NO COORD/RL) 9687 - 290-308 ALDINGTON ROAD, KEMPS CREEK LOGS.GPJ GINT STD AUSTRALIA.GDT 18/10/19

Borehole Log

Client: ESR Group	Started: 4/10/19
Project: Proposed Industrial Subdivision	Finished: 4/10/19
Location: 290-308 Allington Road, Kemps Creek NSW 2178	Borehole Size: 60mm
Rig Type: Hand Held Push Tube	Hole Location: Refer Drawing 9687-GR-1-A
Driller: JW	Logged: JW
RL Surface:	Contractor: Alliance Geotechnical Pty Ltd
Bearing: ---	Checked: LM

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
HA					-	FILL: Silty CLAY, brown.	DS	M	S	FILL
	Groundwater Not Encountered		0.5		CH	CLAY, brown and orange.	DS	M	St	RESIDUAL
			1.0							
			1.5							
			2.0			Borehole BH 09 terminated at 1.1m				

Borehole Log

Client: ESR Group	Started: 4/10/19
Project: Proposed Industrial Subdivision	Finished: 4/10/19
Location: 290-308 Allington Road, Kemps Creek NSW 2178	Borehole Size: 60mm
Rig Type: Hand Held Push Tube	Hole Location: Refer Drawing 9687-GR-1-A
Driller: JW	Logged: JW
RL Surface:	Contractor: Alliance Geotechnical Pty Ltd
Bearing: ---	Checked: LM

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
HA	Groundwater Not Encountered		0.5		-	FILL: Silty CLAY, brown, friable.	DS	D	St	FILL
			1.0		CH	CLAY, brown.	DS	M	St	RESIDUAL
			1.5			Borehole BH 10 terminated at 1.1m				
			2.0							

BOREHOLE (NO COORD/RL) 9687 - 290-308 ALDINGTON ROAD, KEMPS CREEK LOGS.GPJ GINT STD AUSTRALIA.GDT 18/10/19

Borehole Log

Client: ESR Group		Started: 4/10/19	
Project: Proposed Industrial Subdivision		Finished: 4/10/19	
Location: 290-308 Allington Road, Kemps Creek NSW 2178		Borehole Size: 500mm	
Rig Type: Hand Excavated	Hole Location: Refer Drawing 9687-GR-1-A	Driller: JW	Logged: JW
RL Surface:	Contractor: Alliance Geotechnical Pty Ltd	Bearing: ---	Checked: LM

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
HA	Not Encountered				ML	SILT, brown, trace organics.	DS	W	S	ALLUVIUM
			0.5			Borehole SS01 terminated at 0.3m				
			1.0							
			1.5							
			2.0							

Borehole Log

Client: ESR Group	Started: 4/10/19
Project: Proposed Industrial Subdivision	Finished: 4/10/19
Location: 290-308 Allington Road, Kemps Creek NSW 2178	Borehole Size: 500mm
Rig Type: Hand Excavated	Hole Location: Refer Drawing 9687-GR-1-A
RL Surface:	Driller: JW
Contractor: Alliance Geotechnical Pty Ltd	Bearing: ---
	Logged: JW
	Checked: LM

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations	
HA	Not Encountered				-	FILL: Silty CLAY, brown.	DS	M	S	FILL	
			0.5			Borehole SS02 terminated at 0.3m					
			1.0								
			1.5								
			2.0								