Appendix D: Laboratory Reports

senversa

Chain of Custody Documentation

Senversa Pty Ltd
www.senversa.com.au
ABN 89 132 231 380

Laboratory: mgt/Eurofins VIC
Address: 6 Monterey Road, Dandenong South, VIC 3175
Contact: Harry Bacalis/Sample Log In
Phone: 03 9564 7055

Job Number:	M18310	**Purchase Order:**	
Project Name:	Elwood HHRA	**Quote No:**	
Sampled By:	Molly Hoak	**Turn Around Time:**	3 Day TAT
Project Manager:	Katie Richardson	**Page:**	1 of 1
Email Report To:	molly.hoak@senversa.com.au	**Phone/Mobile:**	0438 255 132

Sample Information					Container Information		Analysis Required		Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	Polynuclear Aromatic Hydrocarbons (PAH)	HOLD	
	SB01_0.1-0.2	SOIL	8/12/2020		Jar	1		X	
	SB01_0.45	SOIL	8/12/2020		Jar	1	X		
	SB02_0.0-0.1	SOIL	8/12/2020		Jar	1		X	
	SB02_0.4	SOIL	8/12/2020		Jar	1	X		
	SB03_0.1	SOIL	8/12/2020		Jar	1	X		
	SB03_0.4	SOIL	8/12/2020		Jar	1	X		
	SB04_0.1	SOIL	8/12/2020		Jar	1	X		
	SB04_0.4	SOIL	8/12/2020		Jar	1	X		
	SB04_0.5	SOIL	8/12/2020		Jar	1		X	
	SB05_0.1	SOIL	8/12/2020		Jar	1	X		
	SB05_0.5	SOIL	8/12/2020		Jar	1	X		
	SB06_0.1	SOIL	8/12/2020		Jar	1		X	
	SB06_0.48	SOIL	8/12/2020		Jar	1	X		
	SB06_0.7-0.8	SOIL	8/12/2020		Jar	1		X	
	SB06_0.9-1.0	SOIL	8/12/2020		Jar	1		X	
	QC01	SOIL	8/12/2020		Jar	1	X		
	QC02	SOIL	8/12/2020		Jar	1	X		Please forward to ALS
Total						17			

Date/Time:
Y / N
7.1
Correction: -0.3
Final Temp: 6.8
Courier

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:	**Sampler Name:** Molly Hoak	**Signature:** [signature]	**Date:** 9/12/2020		

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature: Anna G	Date: 9/12/20
Of:	Time:	Date/Time:	Of: Eurofins	Time: 3.50pm
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

#762416 L.0

Completed by: ________
Checked by: ________

COPY

Chain of Custody Documentation

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ABN 89 132 231 380

Laboratory: mgt/Eurofins VIC
Address: 6 Monterey Road, Dandenong South, VIC 3175
Contact: Harry Bacalis/Sample Log In
Phone: 03 9564 7055

Job Number:	M18310	**Purchase Order:**	
Project Name:	Elwood HHRA	**Quote No:**	
Sampled By:	Molly Hoak	**Turn Around Time:**	3 Day TAT
Project Manager:	Katie Richardson	**Page:**	1 of 1
Email Report To:	molly.hoak@senversa.com.au	**Phone/Mobile:**	0438 255 132

Sample Information					Container Information		Analysis Required													
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	Polynuclear Aromatic Hydrocarbons (PAH)										HOLD			Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
	SB01_0.1-0.2	SOIL	8/12/2020		Jar	1											X			
	SB01_0.45	SOIL	8/12/2020		Jar	1	X													
	SB02_0.0-0.1	SOIL	8/12/2020		Jar	1											X			
	SB02_0.4	SOIL	8/12/2020		Jar	1	X													
	SB03_0.1	SOIL	8/12/2020		Jar	1	X													
	SB03_0.4	SOIL	8/12/2020		Jar	1	X													
	SB04_0.1	SOIL	8/12/2020		Jar	1	X													
	SB04_0.4	SOIL	8/12/2020		Jar	1	X													
	SB04_0.5	SOIL	8/12/2020		Jar	1											X			
	SB05_0.1	SOIL	8/12/2020		Jar	1	X													
	SB05_0.5	SOIL	8/12/2020		Jar	1	X													
	SB06_0.1	SOIL	8/12/2020		Jar	1											X			
	SB06_0.48	SOIL	8/12/2020		Jar	1	X													
	SB06_0.7-0.8	SOIL	8/12/2020		Jar	1											X			
	SB06_0.9-1.0	SOIL	8/12/2020		Jar	1											X			
	QC01	SOIL	8/12/2020		Jar	1	X													
	QC02	SOIL	8/12/2020		Jar	1	X													
Total						17														

Date/Time: 9/12/20
Cooler: Y / N
Temp: 7.1 -0.3 6.8
Please forward to ALS
Correction:
Final Temp:
Cooler

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:

Sampler Name: Molly Hoak **Signature:** **Date:** 9/12/2020

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature: CANA TG	Date: 9/12/20
Of:	Time:	Date/Time:	Of: EUROFINS	Time: 3.50pm
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

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#762416 LB

Completed by: _____
Checked by: _____

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IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	Senversa Pty Ltd VIC
Contact name:	Molly Hoak
Project name:	ELWOOD HHRA
Project ID:	M18310
Turnaround time:	3 Day
Date/Time received	Dec 9, 2020 3:50 PM
Eurofins reference	762416

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 6.8 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Harry Bacalis on phone : or by email: HarryBacalis@eurofins.com

Results will be delivered electronically via email to Molly Hoak - Molly.Hoak@senversa.com.au.

Note: A copy of these results will also be delivered to the general Senversa Pty Ltd VIC email address.

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IANZ # 1290

Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

Project Name: ELWOOD HHRA
Project ID: M18310

Order No.:
Report #: 762416
Phone: 9606 0070
Fax:

Received: Dec 9, 2020 3:50 PM
Due: Dec 14, 2020
Priority: 3 Day
Contact Name: Molly Hoak

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						HOLD	Polycyclic Aromatic Hydrocarbons	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	SB01_0.45	Dec 08, 2020		Soil	M20-De19225		X	X
2	SB02_0.4	Dec 08, 2020		Soil	M20-De19226		X	X
3	SB03_0.1	Dec 08, 2020		Soil	M20-De19227		X	X
4	SB03_0.4	Dec 08, 2020		Soil	M20-De19228		X	X
5	SB04_0.1	Dec 08, 2020		Soil	M20-De19229		X	X
6	SB04_0.4	Dec 08, 2020		Soil	M20-De19230		X	X
7	SB05_0.1	Dec 08, 2020		Soil	M20-De19231		X	X
8	SB05_0.5	Dec 08, 2020		Soil	M20-De19232		X	X
9	SB06_0.48	Dec 08, 2020		Soil	M20-De19233		X	X

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

Project Name: ELWOOD HHRA
Project ID: M18310

Order No.:
Report #: 762416
Phone: 9606 0070
Fax:

Received: Dec 9, 2020 3:50 PM
Due: Dec 14, 2020
Priority: 3 Day
Contact Name: Molly Hoak

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						HOLD	Polycyclic Aromatic Hydrocarbons	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
10	QC01	Dec 08, 2020		Soil	M20-De19234		X	X
11	SB01_0.1-0.2	Dec 08, 2020		Soil	M20-De19235	X		
12	SB02_0.0-0.1	Dec 08, 2020		Soil	M20-De19236	X		
13	SB04_0.5	Dec 08, 2020		Soil	M20-De19237	X		
14	SB06_0.1	Dec 08, 2020		Soil	M20-De19238	X		
15	SB06_0.7-0.8	Dec 08, 2020		Soil	M20-De19239	X		
16	SB06_0.9-1.0	Dec 08, 2020		Soil	M20-De19240	X		
Test Counts						6	10	10

Senversa Pty Ltd VIC
Level 6, 15 William St
Melbourne
VIC 3000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Molly Hoak**

Report **762416-S**
Project name ELWOOD HHRA
Project ID M18310
Received Date Dec 09, 2020

Client Sample ID			**SB01_0.45**	**SB02_0.4**	**SB03_0.1**	**SB03_0.4**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M20-De19225**	**M20-De19226**	**M20-De19227**	**M20-De19228**
Date Sampled			**Dec 08, 2020**	**Dec 08, 2020**	**Dec 08, 2020**	**Dec 08, 2020**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	37	93	< 0.5	13
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	37	93	0.6	13
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	37	93	1.2	13
Acenaphthene	0.5	mg/kg	0.5	0.9	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	4.8	21	< 0.5	1.5
Anthracene	0.5	mg/kg	8.6	29	< 0.5	2.6
Benz(a)anthracene	0.5	mg/kg	22	63	< 0.5	7.6
Benzo(a)pyrene	0.5	mg/kg	26	62	< 0.5	8.7
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	17	39	< 0.5	6.0
Benzo(g.h.i)perylene	0.5	mg/kg	18	37	< 0.5	5.6
Benzo(k)fluoranthene	0.5	mg/kg	18	35	< 0.5	6.6
Chrysene	0.5	mg/kg	21	56	< 0.5	7.0
Dibenz(a.h)anthracene	0.5	mg/kg	3.2	12	< 0.5	1.2
Fluoranthene	0.5	mg/kg	35	57	0.7	13
Fluorene	0.5	mg/kg	1.7	4.4	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	18	42	< 0.5	6.2
Naphthalene	0.5	mg/kg	0.8	2.4	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	27	67	< 0.5	6.4
Pyrene	0.5	mg/kg	36	63	0.7	15
Total PAH*	0.5	mg/kg	257.6	590.7	1.4	87.4
2-Fluorobiphenyl (surr.)	1	%	107	98	65	75
p-Terphenyl-d14 (surr.)	1	%	109	101	60	73
% Moisture	1	%	8.1	5.3	6.0	7.6

Client Sample ID			SB04_0.1	SB04_0.4	SB05_0.1	SB05_0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-De19229	M20-De19230	M20-De19231	M20-De19232
Date Sampled			Dec 08, 2020	Dec 08, 2020	Dec 08, 2020	Dec 08, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	9.2	2.7	3.8	13
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	9.2	3.0	4.0	13
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	9.2	3.2	4.3	13
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	1.0	< 0.5	0.7	0.9
Benz(a)anthracene	0.5	mg/kg	5.1	1.7	2.5	5.6
Benzo(a)pyrene	0.5	mg/kg	6.2	2.1	2.9	9.8
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	4.7	1.7	1.9	8.1
Benzo(g.h.i)perylene	0.5	mg/kg	4.5	1.1	2.0	2.3
Benzo(k)fluoranthene	0.5	mg/kg	5.0	1.5	1.7	8.0
Chrysene	0.5	mg/kg	5.6	2.2	2.6	5.6
Dibenz(a.h)anthracene	0.5	mg/kg	1.0	< 0.5	< 0.5	1.1
Fluoranthene	0.5	mg/kg	9.5	3.3	4.5	9.7
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	4.5	1.0	2.2	2.8
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	3.7	1.1	2.1	4.1
Pyrene	0.5	mg/kg	10	3.5	4.9	11
Total PAH*	0.5	mg/kg	60.8	19.2	28	69
2-Fluorobiphenyl (surr.)	1	%	91	102	65	65
p-Terphenyl-d14 (surr.)	1	%	87	97	63	82
% Moisture	1	%	11	12	4.5	5.4

Client Sample ID			SB06_0.48	QC01
Sample Matrix			Soil	Soil
Eurofins Sample No.			M20-De19233	M20-De19234
Date Sampled			Dec 08, 2020	Dec 08, 2020
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	12	75
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	12	75
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	12	75
Acenaphthene	0.5	mg/kg	< 0.5	1.4
Acenaphthylene	0.5	mg/kg	0.6	12
Anthracene	0.5	mg/kg	1.8	20
Benz(a)anthracene	0.5	mg/kg	7.3	53
Benzo(a)pyrene	0.5	mg/kg	8.3	52
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	6.2	34
Benzo(g.h.i)perylene	0.5	mg/kg	5.4	22
Benzo(k)fluoranthene	0.5	mg/kg	6.2	42
Chrysene	0.5	mg/kg	7.7	55
Dibenz(a.h)anthracene	0.5	mg/kg	1.2	7.2
Fluoranthene	0.5	mg/kg	12	100
Fluorene	0.5	mg/kg	< 0.5	3.0
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	6.3	23
Naphthalene	0.5	mg/kg	< 0.5	2.0

Client Sample ID			SB06_0.48	QC01
Sample Matrix			Soil	Soil
Eurofins Sample No.			M20-De19233	M20-De19234
Date Sampled			Dec 08, 2020	Dec 08, 2020
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Phenanthrene	0.5	mg/kg	5.8	98
Pyrene	0.5	mg/kg	13	100
Total PAH*	0.5	mg/kg	81.8	624.6
2-Fluorobiphenyl (surr.)	1	%	74	74
p-Terphenyl-d14 (surr.)	1	%	75	71
% Moisture	1	%	4.7	7.0

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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
Polycyclic Aromatic Hydrocarbons	Melbourne	Dec 09, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
% Moisture	Melbourne	Dec 09, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			

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IANZ # 1290

Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

Project Name: ELWOOD HHRA
Project ID: M18310

Order No.:
Report #: 762416
Phone: 9606 0070
Fax:

Received: Dec 9, 2020 3:50 PM
Due: Dec 14, 2020
Priority: 3 Day
Contact Name: Molly Hoak

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						HOLD	Polycyclic Aromatic Hydrocarbons	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	SB01_0.45	Dec 08, 2020		Soil	M20-De19225		X	X
2	SB02_0.4	Dec 08, 2020		Soil	M20-De19226		X	X
3	SB03_0.1	Dec 08, 2020		Soil	M20-De19227		X	X
4	SB03_0.4	Dec 08, 2020		Soil	M20-De19228		X	X
5	SB04_0.1	Dec 08, 2020		Soil	M20-De19229		X	X
6	SB04_0.4	Dec 08, 2020		Soil	M20-De19230		X	X
7	SB05_0.1	Dec 08, 2020		Soil	M20-De19231		X	X
8	SB05_0.5	Dec 08, 2020		Soil	M20-De19232		X	X
9	SB06_0.48	Dec 08, 2020		Soil	M20-De19233		X	X

eurofins | Environment Testing

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Australia

Melbourne
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Phone : +61 3 8564 5000
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Site # 1254 & 14271

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Unit F3, Building F
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
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Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
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Phone : +61 2 4968 8448

New Zealand

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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

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Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
10	QC01	Dec 08, 2020		Soil	M20-De19234		X	X
11	SB01_0.1-0.2	Dec 08, 2020		Soil	M20-De19235	X		
12	SB02_0.0-0.1	Dec 08, 2020		Soil	M20-De19236	X		
13	SB04_0.5	Dec 08, 2020		Soil	M20-De19237	X		
14	SB06_0.1	Dec 08, 2020		Soil	M20-De19238	X		
15	SB06_0.7-0.8	Dec 08, 2020		Soil	M20-De19239	X		
16	SB06_0.9-1.0	Dec 08, 2020		Soil	M20-De19240	X		
Test Counts						6	10	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.

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

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 5.3
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

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

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 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate 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							
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	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	94			70-130	Pass	
Acenaphthylene	%	90			70-130	Pass	
Anthracene	%	84			70-130	Pass	
Benz(a)anthracene	%	85			70-130	Pass	
Benzo(a)pyrene	%	82			70-130	Pass	
Benzo(b&j)fluoranthene	%	79			70-130	Pass	
Benzo(g.h.i)perylene	%	86			70-130	Pass	
Benzo(k)fluoranthene	%	95			70-130	Pass	
Chrysene	%	103			70-130	Pass	
Dibenz(a.h)anthracene	%	88			70-130	Pass	
Fluoranthene	%	90			70-130	Pass	
Fluorene	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	85			70-130	Pass	
Naphthalene	%	95			70-130	Pass	
Phenanthrene	%	92			70-130	Pass	
Pyrene	%	89			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M20-De22125	NCP	%	79			70-130	Pass	
Acenaphthylene	M20-De22125	NCP	%	79			70-130	Pass	
Anthracene	M20-De22125	NCP	%	85			70-130	Pass	
Benz(a)anthracene	M20-De22125	NCP	%	74			70-130	Pass	
Benzo(a)pyrene	M20-De22125	NCP	%	76			70-130	Pass	
Benzo(b&j)fluoranthene	M20-De22125	NCP	%	79			70-130	Pass	
Benzo(g.h.i)perylene	M20-De22125	NCP	%	75			70-130	Pass	
Benzo(k)fluoranthene	M20-De22125	NCP	%	90			70-130	Pass	
Chrysene	M20-De22125	NCP	%	79			70-130	Pass	
Dibenz(a.h)anthracene	M20-De22125	NCP	%	81			70-130	Pass	
Fluoranthene	M20-De22125	NCP	%	76			70-130	Pass	
Fluorene	M20-De22125	NCP	%	80			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Indeno(1.2.3-cd)pyrene	M20-De22125	NCP	%	77			70-130	Pass	
Naphthalene	M20-De22125	NCP	%	76			70-130	Pass	
Phenanthrene	M20-De22125	NCP	%	80			70-130	Pass	
Pyrene	M20-De22125	NCP	%	77			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M20-De22251	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M20-De19234	CP	%	7.0	5.5	23	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
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

Authorised By

Harry Bacalis	Analytical Services Manager
Joseph Edouard	Senior Analyst-Organic (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.

senversa

Senversa Pty Ltd
www.senversa.com.au
ABN 89 132 231 380

Chain of Custody Documentation

Laboratory:	mgt/Eurofins VIC
Address:	6 Monterey Road, Dandenong South, VIC 3175
Contact:	Harry Bacalis/Sample Log In
Phone:	03 9564 7055

Job Number:	M18310	Purchase Order:	
Project Name:	Elwood DSI	Quote No:	
Sampled By:	Molly Hoak	Turn Around Time:	Standard
Project Manager:	Katie Richardson	Page:	1 of 4
Email Report To:	molly.hoak@senversa.com.au	Phone/Mobile:	0438 255 132

Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	R1: Vic EPA IWRG 621 (exc. CrVI)	B7:TRH, BTEXN, PAH, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)	B20: Cation Exchange Capacity	L2: Soil Aggresivity Suite (pH, EC, Cl, resitivity, SO4)	Asbestos in Building Material						HOLD	Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
	SB07_0.1-0.2	SOIL	12/01/2021		Jar	1		X										
	SB07_0.7-0.8	SOIL	12/01/2021		Jar	1		X										
	SB08_0.1-0.2	SOIL	12/01/2021		Jar	1	X		X									
	SB09_0.1-0.2	SOIL	8/12/2020		Jar	1		X										
	SB09_0.4-0.5	SOIL	8/12/2020		Jar	1		X										
	SB10_0.1-0.2	SOIL	12/01/2021		Jar	1		X		X								
	SB10_0.7-0.8	SOIL	12/01/2021		Jar	1	X											3.1
	SB11_0.1-0.2	SOIL	8/12/2020		Jar	1	X											0.3
	SB11_0.8-0.9	SOIL	8/12/2020		Jar	1		X										2.8
	SB12_0.1-0.2	SOIL	8/12/2020		Jar	1		X										Final Temp: cool
	SB13_0.1-0.2	SOIL	12/01/2021		Jar	1		X										
	SB13_0.8-0.9	SOIL	12/01/2021		Jar	1											X	
	SB14_0.1-0.2	SOIL	12/01/2021		Jar	1	X											
	SB14_0.8-0.9	SOIL	12/01/2021		Jar	1											X	
	SB15_0.1-0.2	SOIL	12/01/2021		Jar	1	X											
	SB15_0.4-0.5	SOIL	12/01/2021		Jar	1											X	
	SB16_0.05-0.15	SOIL	13/01/2021		Jar	1		X										
	SB16_0.45-0.55	SOIL	13/01/2021		Jar	1	X											
	SB17_0.05-0.15	SOIL	13/01/2021		Jar	1		X	X									
	SB17_0.35-0.45	SOIL	13/01/2021		Jar	1											X	
Total						20	6	10	2	1								

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:

Sampler Name: Molly Hoak | Signature: [signature] | Date: 14/01/2021

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature: M Ka	Date: 14/1/21	Carrier / Reference #:	Name/Signature: [signature]	Date:
Of: Senversa	Time: 5:45pm	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature: Nik M. [signature]	Date: 14/1/21
Of:	Time:	Date/Time:	Of: Eurofins	Time: 5.00
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic;
V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic;
F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's Iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: ________
Checked by: ________

767787

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Senversa Pty Ltd
[redacted].au
ABN 89 132 231 380

Chain of Custody Documentation

Laboratory:	mgt/Eurofins VIC
Address:	6 Monterey Road, Dandenong South, VIC 3175
Contact:	Harry Bacalis/Sample Log In
Phone:	03 9564 7055

Job Number:	M18310	Purchase Order:	
Project Name:	Elwood DSI	Quote No:	
Sampled By:	Molly Hoak	Turn Around Time:	Standard
Project Manager:	Katie Richardson	Page:	2 of 4
Email Report To:	molly.hoak@senversa.com.au	Phone/Mobile:	0438 255 132

Sample Information					Container Information		Analysis Required											
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	R1: Vic EPA IWRG 621 (exc. CrVI)	B7:TRH, BTEXN, PAH, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)	B20: Cation Exchange Capacity	L2: Soil Aggresivity Suite (pH, EC, Cl, resistivity, SO4)	Asbestos in Building Material						HOLD	Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
	SB18_0.1-0.2	SOIL	13/01/2021		Jar	1		X										
	SB18_0.4-0.5	SOIL	13/01/2021		Jar	1	X											
	SB21_0.1-0.2	SOIL	13/01/2021		Jar	1		X										
	SB22_0.1-0.2	SOIL	13/01/2021		Jar	1		X										
	SB22_0.48-0.58	SOIL	13/01/2021		Jar	1											X	
	SB23_0.1-0.2	SOIL	12/01/2021		Jar	1		X										
	SB23_0.35-0.45	SOIL	12/01/2021		Jar	1	X											
	SB24_0.1-0.2	SOIL	12/01/2021		Jar	1		X										
	SB24_0.9-1.0	SOIL	12/01/2021		Jar	1		X										
	SB25_0.1-0.2	SOIL	12/01/2021		Jar	1	X											
	SB25_0.3-0.4	SOIL	12/01/2021		Jar	1											X	
	SB26_0.1-0.2	SOIL	13/01/2021		Jar	1	X											
	SB26_0.3-0.4	SOIL	13/01/2021		Jar	1											X	
	SB27_0.1-0.2	SOIL	13/01/2021		Jar	1		X		X								
	SB27_0.3-0.4	SOIL	13/01/2021		Jar	1		X										
	SB28_0.1-0.2	SOIL	13/01/2021		Jar	1		X										
	SB28_0.6-0.7	SOIL	13/01/2021		Jar	1	X											
	SB29_0.05-0.15	SOIL	12/01/2021		Jar	1		X										
	SB29_0.1	SOIL	12/01/2021		Jar	1					X							Likely asbestos cement sheet
	SB30_0.1-0.2	SOIL	12/01/2021		Jar	1		X										
Total						20	5	11		1	1							

Sampler: I attest *that proper field sampling procedures* in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:

Sampler Name: Molly Hoak

Signature: [signature]

Date: 14/01/2021

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature: [signature]	Date: 14/1/21	Carrier / Reference #:	Name/Signature: [signature]	Date:
Of: Senversa	Time: 15:45pm	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's Iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: _____
Checked by: _____

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Senversa Pty Ltd
www.senversa.com.au
ABN 89 132 231 380

Chain of Custody Documentation

Laboratory: mgt/Eurofins VIC
Address: 6 Monterey Road, Dandenong South, VIC 3175
Contact: Harry Bacalis/Sample Log In
Phone: 03 9564 7055

Job Number:	M18310	Purchase Order:	
Project Name:	Elwood DSI	Quote No:	
Sampled By:	Molly Hoak	Turn Around Time:	Standard
Project Manager:	Katie Richardson	Page:	3 of 4
Email Report To:	molly.hoak@senversa.com.au	Phone/Mobile:	0438 255 132

Lab ID	Sample Information: Sample ID	Matrix *	Date	Time	Container Information: Type / Code	Total Bottles	R1: Vic EPA IWRG 621 (exc. CrVI)	B7:TRH, BTEXN, PAH, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)	B20: Cation Exchange Capacity	L2: Soil Aggresivity Suite (pH, EC, Cl, resistivity, SO4)	Asbestos in Building Material							HOLD	Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
	SB30_0.3-0.4	SOIL	12/01/2021		Jar	1		X											
	SB31_0.1-0.2	SOIL	13/01/2021		Jar	1		X											
	SB31_0.4-0.5	SOIL	13/01/2021		Jar	1													
	SB32_0.05-0.15	SOIL	13/01/2021		Jar	1	X											X	
	SB33_0.1-0.2	SOIL	12/01/2021		Jar	1		X											
	SB34_0.1-0.2	SOIL	13/01/2021		Jar	1		X	X										
	SB34_0.4-0.5	SOIL	13/01/2021		Jar	1	X												
	SB35_0.1-0.2	SOIL	12/01/2021		Jar	1	X												
	SB35_0.4-0.5	SOIL	12/01/2021		Jar	1													
	SB36_0.1-0.2	SOIL	12/01/2021		Jar	1		X										X	
	SB36_0.4-0.5	SOIL	12/01/2021		Jar	1		X											
	SB37_0.1-0.2	SOIL	12/01/2021		Jar	1		X		X									
	SB37_0.5-0.6	SOIL	12/01/2021		Jar	1		X											
	SB38_0.1-0.2	SOIL	12/01/2021		Jar	1	X												
	SB38_0.3-0.4	SOIL	12/01/2021		Jar	1													
	QC01	SOIL	12/01/2021		Jar	1		X										X	
	QC02	SOIL	12/01/2021		Jar	1		X											
	QC03	SOIL	13/01/2021		Jar	1		X											Please forward to ALS
	QC04	SOIL	13/01/2021		Jar	1		X											
	QC05	SOIL	13/01/2021		Jar	1		X											Please forward to ALS
Total						20	4	13	1	1									

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:

Sampler Name: Molly Hoak | Signature: | Date: 14/01/2021

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature:	Date: 14/1/21	Carrier / Reference #:	Name/Signature:	Date:
Of: Senversa	Time: 3:45pm	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

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Completed by: _____
Checked by: _____

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Chain of Custody Documentation

Laboratory:	mgt/Eurofins VIC
Address:	6 Monterey Road, Dandenong South, VIC 3175
Contact:	Harry Bacalis/Sample Log In
Phone:	03 9564 7055

Job Number:	M18310	**Purchase Order:**	
Project Name:	Elwood DSI	**Quote No:**	
Sampled By:	Molly Hoak	**Turn Around Time:**	Standard
Project Manager:	Katie Richardson	**Page:**	3 of 4
Email Report To:	molly.hoak@senversa.com.au	**Phone/Mobile:**	0438 255 132

Sample Information					Container Information		Analysis Required												
Lab ID	**Sample ID**	**Matrix ***	**Date**	**Time**	**Type / Code**	**Total Bottles**	**R1**: Vic EPA IWRG 621 (exc. CrVI)	**B7**:TRH, BTEXN, PAH, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)	B20: Cation Exchange Capacity	L2: Soil Aggresivity Suite (pH, EC, Cl, resistivity, SO4)	Asbestos in Building Material						HOLD	**Comments**: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
	QC05	SOIL	13/01/2021		Jar	1		X										
	QC06	SOIL	13/01/2021		Jar	1		X										Please forward to ALS
Total						2		2										

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples: | **Sampler Name:** Molly Hoak | **Signature:** | **Date:** 14/01/2021

Relinquished By:		**Method of Shipment (if applicable):**	**Received by:**	
Name/Signature:	Date: 14/1/21	Carrier / Reference #:	Name/Signature:	Date:
Of: Senversa	Time: 3:45pm	**Date/Time:**	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
			Name/Signature:	Date:
			Of:	Time:

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Completed by: _____
Checked by: _____

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Chain of Custody Documentation

Senversa Pty Ltd
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ABN 89 132 231 380

Laboratory: mgt/Eurofins VIC
Address: 6 Monterey Road, Dandenong South, VIC 3175
Contact: Harry Bacalis/Sample Log In
Phone: 03 9564 7055

Job Number:	M18310	**Purchase Order:**	
Project Name:	Elwood DSI	**Quote No:**	
Sampled By:	Molly Hoak	**Turn Around Time:**	Standard
Project Manager:	Katie Richardson	**Page:**	3 of 4
Email Report To:	molly.hoak@senversa.com.au	**Phone/Mobile:**	0438 255 132

Sample Information					Container Information		Analysis Required											
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	R1: Vic EPA IWRG 621 (exc. CrVI)	B7:TRH, BTEXN, PAH, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)	B20: Cation Exchange Capacity	L2: Soil Aggresivity Suite (pH, EC, Cl, resistivity, SO4)	Asbestos in Building Material						HOLD	Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
	SB30_0.3-0.4	SOIL	12/01/2021		Jar	1		X										
	SB31_0.1-0.2	SOIL	13/01/2021		Jar	1		X										
	SB31_0.4-0.5	SOIL	13/01/2021		Jar	1											X	
	SB32_0.05-0.15	SOIL	13/01/2021		Jar	1	X											
	SB33_0.1-0.2	SOIL	12/01/2021		Jar	1		X										
	SB34_0.1-0.2	SOIL	13/01/2021		Jar	1		X	X									
	SB34_0.4-0.5	SOIL	13/01/2021		Jar	1	X											
	SB35_0.1-0.2	SOIL	12/01/2021		Jar	1	X											
	SB35_0.4-0.5	SOIL	12/01/2021		Jar	1											X	
	SB36_0.1-0.2	SOIL	12/01/2021		Jar	1		X										
	SB36_0.4-0.5	SOIL	12/01/2021		Jar	1		X										
	SB37_0.1-0.2	SOIL	12/01/2021		Jar	1		X		X								
	SB37_0.5-0.6	SOIL	12/01/2021		Jar	1		X										
	SB38_0.1-0.2	SOIL	12/01/2021		Jar	1	X											
	SB38_0.3-0.4	SOIL	12/01/2021		Jar	1											X	
	QC01	SOIL	12/01/2021		Jar	1		X										
	QC02	SOIL	12/01/2021		Jar	1		X										Please forward to ALS
	QC03	SOIL	13/01/2021		Jar	1		X										
	QC04	SOIL	13/01/2021		Jar	1		X										rd to ALS
	QC05	SOIL	13/01/2021		Jar	1		X										
Total						20	4	13	1	1								

9

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples: | **Sampler Name:** Molly Hoak | **Signature:**

Relinquished By:		Method of Shipment (if applicable):	Received by:
Name/Signature:	Date: 14/1/21	Carrier / Reference #:	Name/Signature:
Of: Senversa	Time: 3:45pm	Date/Time:	Of:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:
Of:	Time:	Date/Time:	Of:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:
Of:	Time:	Date/Time:	Of:

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Completed by: _____
Checked by: _____

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ABN 89 132 231 380

Chain of Custody Documentation

Laboratory: mgt/Eurofins VIC
Address: 6 Monterey Road, Dandenong South, VIC 3175
Contact: Harry Bacalis/Sample Log In
Phone: 03 9564 7055

Job Number:	M18310
Project Name:	Elwood DSI
Sampled By:	Molly Hoak
Project Manager:	Katie Richardson
Email Report To:	molly.hoak@senversa.com.au
Purchase Order:	
Quote No:	
Turn Around Time:	Standard
Page:	3 of 4
Phone/Mobile:	0438 255 132

Lab ID	Sample ID	Matrix *	Date	Time	Container Information: Type / Code	Container Information: Total Bottles	R1: Vic EPA IWRG 621 (exc. CrVI)	B7:TRH, BTEXN, PAH, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)	B20: Cation Exchange Capacity	L2: Soil Aggresivity Suite (pH, EC, Cl, resistivity, SO4)	Asbestos in Building Material	HOLD	Comments: e.g. Highly contaminated sample; hazardous materials present; trac LORs etc.
	QC05	SOIL	13/01/2021		Jar	1		X					Please forward to ALS
	QC06	SOIL	13/01/2021		Jar	1		X					
Total						2	2						

Analysis Required

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:

Sampler Name: Molly Hoak Signature: Date: 14/01/2021

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature:	Date: 14/1/21	Carrier / Reference #:	Name/Signature:	Date:
Of: Senversa	Time: 3:45pm	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
			Name/Signature:	Date:
			Of:	Time:

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Completed by: _____
Checked by: _____

9

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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

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6 Monterey Road
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NATA # 1261
Site # 1254 & 14271

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NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

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43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	Senversa Pty Ltd VIC
Contact name:	Molly Hoak
Project name:	ELWOOD DSI
Project ID:	M18310
Turnaround time:	5 Day
Date/Time received	Jan 14, 2021 5:00 PM
Eurofins reference	767787

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 2.8 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

QC07 AND QC08 EXTRA

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Harry Bacalis on phone : or by email: HarryBacalis@eurofins.com

Results will be delivered electronically via email to Molly Hoak - Molly.Hoak@senversa.com.au.

Note: A copy of these results will also be delivered to the general Senversa Pty Ltd VIC email address.

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Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

Project Name: ELWOOD DSI
Project ID: M18310

Order No.:
Report #: 767787
Phone: 9606 0070
Fax:

Received: Jan 14, 2021 5:00 PM
Due: Jan 21, 2021
Priority: 5 Day
Contact Name: Molly Hoak

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence	HOLD	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Vic EPA IWRG 621 (Solids)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	SB07_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13331					X	X	
2	SB07_0.7-0.8	Jan 12, 2021		Soil	M21-Ja13332					X	X	
3	SB08_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13333				X	X		X
4	SB09_0.1-0.2	Dec 08, 2020		Soil	M21-Ja13334					X	X	
5	SB09_0.4-0.5	Dec 08, 2020		Soil	M21-Ja13335					X	X	
6	SB10_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13336			X		X	X	
7	SB10_0.7-0.8	Jan 12, 2021		Soil	M21-Ja13337					X		X
8	SB11_0.1-0.2	Dec 08, 2020		Soil	M21-Ja13338					X		X
9	SB11_0.8-0.9	Dec 08, 2020		Soil	M21-Ja13339					X	X	

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IANZ # 1290

Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

Project Name: ELWOOD DSI
Project ID: M18310

Order No.:
Report #: 767787
Phone: 9606 0070
Fax:

Received: Jan 14, 2021 5:00 PM
Due: Jan 21, 2021
Priority: 5 Day
Contact Name: Molly Hoak

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence	HOLD	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Vic EPA IWRG 621 (Solids)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
10	SB12_0.1-0.2	Dec 08, 2020		Soil	M21-Ja13340					X	X	
11	SB13_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13341					X	X	
12	SB14_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13342					X		X
13	SB15_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13343					X		X
14	SB16_0.05-0.15	Jan 13, 2021		Soil	M21-Ja13344					X	X	
15	SB16_0.45-0.55	Jan 13, 2021		Soil	M21-Ja13345					X		X
16	SB17_0.05-0.15	Jan 13, 2021		Soil	M21-Ja13346				X	X	X	
17	SB18_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13347					X	X	
18	SB18_0.4-0.5	Jan 13, 2021		Soil	M21-Ja13348					X		X

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
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Address: Level 6, 15 William St
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Project Name: ELWOOD DSI
Project ID: M18310

Order No.:
Report #: 767787
Phone: 9606 0070
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Received: Jan 14, 2021 5:00 PM
Due: Jan 21, 2021
Priority: 5 Day
Contact Name: Molly Hoak

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence	HOLD	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Vic EPA IWRG 621 (Solids)
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Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
19	SB21_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13349					X	X	
20	SB22_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13350					X	X	
21	SB23_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13351					X	X	
22	SB23_0.35-0.45	Jan 12, 2021		Soil	M21-Ja13352					X		X
23	SB24_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13353					X	X	
24	SB24_0.9-1.0	Jan 12, 2021		Soil	M21-Ja13354					X	X	
25	SB25_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13355					X		X
26	SB26_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13356					X		X
27	SB27_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13357			X		X	X	
28	SB27_0.3-0.4	Jan 13, 2021		Soil	M21-Ja13358					X	X	

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Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

Project Name: ELWOOD DSI
Project ID: M18310

Order No.:
Report #: 767787
Phone: 9606 0070
Fax:

Received: Jan 14, 2021 5:00 PM
Due: Jan 21, 2021
Priority: 5 Day
Contact Name: Molly Hoak

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence	HOLD	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Vic EPA IWRG 621 (Solids)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
29	SB28_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13359					X	X	
30	SB28_0.6-0.7	Jan 13, 2021		Soil	M21-Ja13360					X		X
31	SB29_0.05-0.15	Jan 12, 2021		Soil	M21-Ja13361					X	X	
32	SB29_0.1	Jan 12, 2021		Building Materials	M21-Ja13362	X						
33	SB30_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13363					X	X	
34	SB30_0.3-0.4	Jan 12, 2021		Soil	M21-Ja13364					X	X	
35	SB31_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13365					X	X	
36	SB32_0.05-0.15	Jan 13, 2021		Soil	M21-Ja13366					X		X
37	SB33_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13367					X	X	

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Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
38	SB34_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13368				X	X	X	
39	SB34_0.4-0.5	Jan 13, 2021		Soil	M21-Ja13369					X		X
40	SB35_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13370					X		X
41	SB36_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13371					X	X	
42	SB36_0.4-0.5	Jan 12, 2021		Soil	M21-Ja13372					X	X	
43	SB37_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13373			X		X	X	
44	SB37_0.5-0.6	Jan 12, 2021		Soil	M21-Ja13374					X	X	
45	SB38_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13375					X		X
46	QC01	Jan 12, 2021		Soil	M21-Ja13376					X	X	
47	QC03	Jan 13, 2021		Soil	M21-Ja13377					X	X	
48	QC05	Jan 13, 2021		Soil	M21-Ja13378					X	X	

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Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence	HOLD	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Vic EPA IWRG 621 (Solids)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
49	SB13_0.8-0.9	Jan 12, 2021		Soil	M21-Ja13379		X					
50	SB14_0.8-0.9	Jan 12, 2021		Soil	M21-Ja13380		X					
51	SB15_0.4-0.5	Jan 12, 2021		Soil	M21-Ja13381		X					
52	SB17_0.35-0.4	Jan 13, 2021		Soil	M21-Ja13382		X					
53	SB22_0.48-0.58	Jan 13, 2021		Soil	M21-Ja13383		X					
54	SB25_0.3-0.4	Jan 12, 2021		Soil	M21-Ja13384		X					
55	SB26_0.3-0.4	Jan 13, 2021		Soil	M21-Ja13385		X					
56	SB31_0.4-0.5	Jan 13, 2021		Soil	M21-Ja13386		X					
57	SB35_0.4-0.5	Jan 12, 2021		Soil	M21-Ja13387		X					
58	SB38_0.3-0.4	Jan 12, 2021		Soil	M21-Ja13388		X					

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Project Name: ELWOOD DSI
Project ID: M18310

Order No.:
Report #: 767787
Phone: 9606 0070
Fax:

Received: Jan 14, 2021 5:00 PM
Due: Jan 21, 2021
Priority: 5 Day
Contact Name: Molly Hoak

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence	HOLD	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Vic EPA IWRG 621 (Solids)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
59	QC07	Jan 13, 2021		Soil	M21-Ja13389		X					
60	QC08	Jan 13, 2021		Soil	M21-Ja13390		X					
Test Counts						1	12	3	3	47	32	15

Certificate of Analysis

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NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Senversa Pty Ltd VIC
Level 6, 15 William St
Melbourne
VIC 3000

Attention:	Molly Hoak
Report	767787-AID
Project Name	ELWOOD DSI
Project ID	M18310
Received Date	Jan 14, 2021
Date Reported	Jan 27, 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 ELWOOD DSI
Project ID M18310
Date Sampled Jan 12, 2021
Report 767787-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
SB29_0.1	21-Ja13362	Jan 12, 2021	Approximate Sample 20g / 80 x 40 x 4mm Sample consisted of: Cement sheet	Chrysotile asbestos detected. Organic fibre detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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	Melbourne	Jan 16, 2021	Indefinite

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Phone: 9606 0070
Fax:

Received: Jan 14, 2021 5:00 PM
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Priority: 5 Day
Contact Name: Molly Hoak

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence	HOLD	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Vic EPA IWRG 621 (Solids)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	SB07_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13331					X	X	
2	SB07_0.7-0.8	Jan 12, 2021		Soil	M21-Ja13332					X	X	
3	SB08_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13333				X	X		X
4	SB09_0.1-0.2	Dec 08, 2020		Soil	M21-Ja13334					X	X	
5	SB09_0.4-0.5	Dec 08, 2020		Soil	M21-Ja13335					X	X	
6	SB10_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13336			X		X	X	
7	SB10_0.7-0.8	Jan 12, 2021		Soil	M21-Ja13337					X		X
8	SB11_0.1-0.2	Dec 08, 2020		Soil	M21-Ja13338					X		X
9	SB11_0.8-0.9	Dec 08, 2020		Soil	M21-Ja13339					X	X	

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
10	SB12_0.1-0.2	Dec 08, 2020		Soil	M21-Ja13340					X	X	
11	SB13_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13341					X	X	
12	SB14_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13342					X		X
13	SB15_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13343					X		X
14	SB16_0.05-0.15	Jan 13, 2021		Soil	M21-Ja13344					X	X	
15	SB16_0.45-0.55	Jan 13, 2021		Soil	M21-Ja13345					X		X
16	SB17_0.05-0.15	Jan 13, 2021		Soil	M21-Ja13346				X	X	X	
17	SB18_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13347					X	X	
18	SB18_0.4-0.5	Jan 13, 2021		Soil	M21-Ja13348					X		X

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Brisbane Laboratory - NATA Site # 20794												
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Mayfield Laboratory												
External Laboratory												
19	SB21_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13349					X	X	
20	SB22_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13350					X	X	
21	SB23_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13351					X	X	
22	SB23_0.35-0.45	Jan 12, 2021		Soil	M21-Ja13352					X		X
23	SB24_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13353					X	X	
24	SB24_0.9-1.0	Jan 12, 2021		Soil	M21-Ja13354					X	X	
25	SB25_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13355					X		X
26	SB26_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13356					X		X
27	SB27_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13357			X		X	X	
28	SB27_0.3-0.4	Jan 13, 2021		Soil	M21-Ja13358					X	X	

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IANZ # 1290

Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

Project Name: ELWOOD DSI
Project ID: M18310

Order No.:
Report #: 767787
Phone: 9606 0070
Fax:

Received: Jan 14, 2021 5:00 PM
Due: Jan 21, 2021
Priority: 5 Day
Contact Name: Molly Hoak

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence	HOLD	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Vic EPA IWRG 621 (Solids)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
29	SB28_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13359					X	X	
30	SB28_0.6-0.7	Jan 13, 2021		Soil	M21-Ja13360					X		X
31	SB29_0.05-0.15	Jan 12, 2021		Soil	M21-Ja13361					X	X	
32	SB29_0.1	Jan 12, 2021		Building Materials	M21-Ja13362	X						
33	SB30_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13363					X	X	
34	SB30_0.3-0.4	Jan 12, 2021		Soil	M21-Ja13364					X	X	
35	SB31_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13365					X	X	
36	SB32_0.05-0.15	Jan 13, 2021		Soil	M21-Ja13366					X		X
37	SB33_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13367					X	X	

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
38	SB34_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13368				X	X	X	
39	SB34_0.4-0.5	Jan 13, 2021		Soil	M21-Ja13369					X		X
40	SB35_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13370					X		X
41	SB36_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13371					X	X	
42	SB36_0.4-0.5	Jan 12, 2021		Soil	M21-Ja13372					X	X	
43	SB37_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13373			X		X	X	
44	SB37_0.5-0.6	Jan 12, 2021		Soil	M21-Ja13374					X	X	
45	SB38_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13375					X		X
46	QC01	Jan 12, 2021		Soil	M21-Ja13376					X	X	
47	QC03	Jan 13, 2021		Soil	M21-Ja13377					X	X	
48	QC05	Jan 13, 2021		Soil	M21-Ja13378					X	X	

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
49	SB13_0.8-0.9	Jan 12, 2021		Soil	M21-Ja13379		X					
50	SB14_0.8-0.9	Jan 12, 2021		Soil	M21-Ja13380		X					
51	SB15_0.4-0.5	Jan 12, 2021		Soil	M21-Ja13381		X					
52	SB17_0.35-0.4	Jan 13, 2021		Soil	M21-Ja13382		X					
53	SB22_0.48-0.58	Jan 13, 2021		Soil	M21-Ja13383		X					
54	SB25_0.3-0.4	Jan 12, 2021		Soil	M21-Ja13384		X					
55	SB26_0.3-0.4	Jan 13, 2021		Soil	M21-Ja13385		X					
56	SB31_0.4-0.5	Jan 13, 2021		Soil	M21-Ja13386		X					
57	SB35_0.4-0.5	Jan 12, 2021		Soil	M21-Ja13387		X					
58	SB38_0.3-0.4	Jan 12, 2021		Soil	M21-Ja13388		X					

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
59	QC07	Jan 13, 2021		Soil	M21-Ja13389		X					
60	QC08	Jan 13, 2021		Soil	M21-Ja13390		X					
Test Counts						1	12	3	3	47	32	15

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 blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

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

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

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

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
N/A	Not applicable

Asbestos Counter/Identifier:

Sophie Bush	Senior Analyst-Asbestos (VIC)

Authorised by:

Katyana Gausel	Senior Analyst-Asbestos (NSW) (Key Technical Personnel)

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.

Senversa Pty Ltd VIC
Level 6, 15 William St
Melbourne
VIC 3000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Molly Hoak**

Report **767787-S**
Project name ELWOOD DSI
Project ID M18310
Received Date Jan 14, 2021

Client Sample ID			**SB07_0.1-0.2**	**SB07_0.7-0.8**	**SB08_0.1-0.2**	**SB09_0.1-0.2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M21-Ja13331**	**M21-Ja13332**	**M21-Ja13333**	**M21-Ja13334**
Date Sampled			**Jan 12, 2021**	**Jan 12, 2021**	**Jan 12, 2021**	**Dec 08, 2020**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	390	480	350	120
TRH C29-C36	50	mg/kg	260	300	290	140
TRH C10-C36 (Total)	50	mg/kg	650	780	640	260
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	%	79	85	-	83
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	590	730	580	220
TRH >C34-C40	100	mg/kg	140	150	170	< 100
TRH >C10-C40 (total)*	100	mg/kg	730	880	750	220
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	13	11	14	2.2
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	13	11	14	2.4
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	13	11	14	2.7
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	0.6	1.0	1.2	< 0.5
Benz(a)anthracene	0.5	mg/kg	7.4	6.3	7.3	0.9
Benzo(a)pyrene	0.5	mg/kg	8.1	7.2	9.5	1.8
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	6.8	7.6	9.5	0.9
Benzo(g.h.i)perylene	0.5	mg/kg	5.6	4.9	4.7	0.8
Benzo(k)fluoranthene	0.5	mg/kg	4.8	4.1	7.3	0.9
Chrysene	0.5	mg/kg	5.3	5.9	8.0	1.9

Client Sample ID			SB07_0.1-0.2	SB07_0.7-0.8	SB08_0.1-0.2	SB09_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13331	M21-Ja13332	M21-Ja13333	M21-Ja13334
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Dec 08, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	2.2	1.3	1.1	< 0.5
Fluoranthene	0.5	mg/kg	14	13	11	3.2
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	5.5	4.0	4.3	0.6
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	3.9	6.1	4.9	0.9
Pyrene	0.5	mg/kg	13	13	12	3.9
Total PAH*	0.5	mg/kg	77.2	74.4	80.8	15.8
2-Fluorobiphenyl (surr.)	1	%	95	86	101	73
p-Terphenyl-d14 (surr.)	1	%	71	75	92	61
Heavy Metals						
Arsenic	2	mg/kg	9.6	4.8	12	9.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.4	< 0.4
Chromium	5	mg/kg	16	34	23	13
Copper	5	mg/kg	14	26	40	9.4
Lead	5	mg/kg	94	23	220	42
Mercury	0.1	mg/kg	< 0.2	< 0.1	< 0.4	< 0.1
Molybdenum	5	mg/kg	-	-	< 5	-
Nickel	5	mg/kg	17	80	24	8.1
Selenium	2	mg/kg	-	-	< 2	-
Silver	2	mg/kg	-	-	< 2	-
Tin	10	mg/kg	-	-	12	-
Zinc	5	mg/kg	160	70	270	79
% Moisture	1	%	19	12	8.1	15
Chromium (hexavalent)	1	mg/kg	-	-	< 1	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	120	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
Fluoride (Total)	100	mg/kg	-	-	100	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	6.8	-
Exchangeable Sodium Percentage (ESP)	0.1	%	-	-	2.0	-
Magnesium (exchangeable)	0.1	meq/100g	-	-	4.9	-
Potassium (exchangeable)	0.1	meq/100g	-	-	1.4	-
Sodium (exchangeable)	0.1	meq/100g	-	-	0.3	-
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	-	-	< 0.5	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trichlorobenzene	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	-

Client Sample ID			SB07_0.1-0.2	SB07_0.7-0.8	SB08_0.1-0.2	SB09_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13331	M21-Ja13332	M21-Ja13333	M21-Ja13334
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Dec 08, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
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	-
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	%	-	-	146	-
Toluene-d8 (surr.)	1	%	-	-	108	-

Client Sample ID			SB07_0.1-0.2	SB07_0.7-0.8	SB08_0.1-0.2	SB09_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13331	M21-Ja13332	M21-Ja13333	M21-Ja13334
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Dec 08, 2020
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-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	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-BHC (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	0.1	mg/kg	-	-	< 0.1	-
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	-
Dibutylchlorendate (surr.)	1	%	-	-	148	-
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	-
Dibutylchlorendate (surr.)	1	%	-	-	148	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	95	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4.5-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.4.6-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	-	-	< 1	-
Pentachlorophenol	1	mg/kg	-	-	< 1	-
Tetrachlorophenols - Total	10	mg/kg	-	-	< 10	-
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	-

Client Sample ID			SB07_0.1-0.2	SB07_0.7-0.8	SB08_0.1-0.2	SB09_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13331	M21-Ja13332	M21-Ja13333	M21-Ja13334
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Dec 08, 2020
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
2-Nitrophenol	1.0	mg/kg	-	-	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
Dinoseb	20	mg/kg	-	-	< 20	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	-
Phenol-d6 (surr.)	1	%	-	-	103	-
Cation Exchange Capacity						
Calcium (exchangeable)	0.1	meq/100g	-	-	9.1	-
Cation Exchange Capacity	0.05	meq/100g	-	-	16	-

Client Sample ID			SB09_0.4-0.5	SB10_0.1-0.2	SB10_0.7-0.8	SB11_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13335	M21-Ja13336	M21-Ja13337	M21-Ja13338
Date Sampled			Dec 08, 2020	Jan 12, 2021	Jan 12, 2021	Dec 08, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	110	140	190	140
TRH C29-C36	50	mg/kg	85	100	100	210
TRH C10-C36 (Total)	50	mg/kg	195	240	290	350
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	%	140	75	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	180	220	270	290
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	130
TRH >C10-C40 (total)*	100	mg/kg	180	220	270	420

Client Sample ID			SB09_0.4-0.5	SB10_0.1-0.2	SB10_0.7-0.8	SB11_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13335	M21-Ja13336	M21-Ja13337	M21-Ja13338
Date Sampled			Dec 08, 2020	Jan 12, 2021	Jan 12, 2021	Dec 08, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	2.1	2.4	8.9	0.8
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	2.3	2.7	8.9	1.1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	2.6	2.9	8.9	1.4
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	0.9	< 0.5
Benz(a)anthracene	0.5	mg/kg	1.0	1.0	5.4	< 0.5
Benzo(a)pyrene	0.5	mg/kg	1.7	2.0	6.3	0.7
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.4	1.2	5.2	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	0.8	1.1	2.9	0.5
Benzo(k)fluoranthene	0.5	mg/kg	1.0	1.1	4.1	0.6
Chrysene	0.5	mg/kg	1.7	2.5	5.5	0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Fluoranthene	0.5	mg/kg	3.5	4.4	9.9	0.9
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	0.8	3.3	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.8	1.1	3.7	< 0.5
Pyrene	0.5	mg/kg	3.7	5.1	10	1.0
Total PAH*	0.5	mg/kg	15.6	20.3	57.9	4.2
2-Fluorobiphenyl (surr.)	1	%	82	75	80	75
p-Terphenyl-d14 (surr.)	1	%	70	66	102	81
Heavy Metals						
Arsenic	2	mg/kg	63	9.3	46	5.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	30	19	22	7.4
Copper	5	mg/kg	16	17	7.9	6.0
Lead	5	mg/kg	82	90	45	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.2	< 0.1
Molybdenum	5	mg/kg	-	-	< 5	< 5
Nickel	5	mg/kg	13	15	9.5	< 5
Selenium	2	mg/kg	-	-	< 2	< 2
Silver	2	mg/kg	-	-	< 2	< 2
Tin	10	mg/kg	-	-	< 10	< 10
Zinc	5	mg/kg	53	120	110	36
% Moisture	1	%	7.9	24	13	17
Chromium (hexavalent)	1	mg/kg	-	-	< 1	< 1
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	100	-	-
Cyanide (total)	5	mg/kg	-	-	< 5	< 5
Fluoride (Total)	100	mg/kg	-	-	< 100	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	7.2	8.3	7.8
Chloride	5	mg/kg	-	620	-	-
Resistivity*	0.5	ohm.m	-	97	-	-
Sulphate (as SO4)	30	mg/kg	-	37	-	-
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	-	-	< 0.5	< 0.5

Client Sample ID			SB09_0.4-0.5	SB10_0.1-0.2	SB10_0.7-0.8	SB11_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13335	M21-Ja13336	M21-Ja13337	M21-Ja13338
Date Sampled			Dec 08, 2020	Jan 12, 2021	Jan 12, 2021	Dec 08, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	-	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Styrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5

Client Sample ID			SB09_0.4-0.5	SB10_0.1-0.2	SB10_0.7-0.8	SB11_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13335	M21-Ja13336	M21-Ja13337	M21-Ja13338
Date Sampled			Dec 08, 2020	Jan 12, 2021	Jan 12, 2021	Dec 08, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	140	75
Toluene-d8 (surr.)	1	%	-	-	95	57
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-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	0.1	mg/kg	-	-	< 0.1	< 0.1
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
Dibutylchlorendate (surr.)	1	%	-	-	105	76
Tetrachloro-m-xylene (surr.)	1	%	-	-	71	96
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
Dibutylchlorendate (surr.)	1	%	-	-	105	76
Tetrachloro-m-xylene (surr.)	1	%	-	-	71	96

Client Sample ID			SB09_0.4-0.5	SB10_0.1-0.2	SB10_0.7-0.8	SB11_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13335	M21-Ja13336	M21-Ja13337	M21-Ja13338
Date Sampled			Dec 08, 2020	Jan 12, 2021	Jan 12, 2021	Dec 08, 2020
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	-	-	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	-	-	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	-	-	< 1	< 1
Pentachlorophenol	1	mg/kg	-	-	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	-	-	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	< 0.2
2-Nitrophenol	1.0	mg/kg	-	-	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	< 5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	< 0.4
4-Nitrophenol	5	mg/kg	-	-	< 5	< 5
Dinoseb	20	mg/kg	-	-	< 20	< 20
Phenol	0.5	mg/kg	-	-	< 0.5	< 0.5
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	< 20
Phenol-d6 (surr.)	1	%	-	-	53	77

Client Sample ID			SB11_0.8-0.9	SB12_0.1-0.2	SB13_0.1-0.2	SB14_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13339	M21-Ja13340	M21-Ja13341	M21-Ja13342
Date Sampled			Dec 08, 2020	Dec 08, 2020	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	440	< 20	< 20
TRH C15-C28	50	mg/kg	270	660	290	190
TRH C29-C36	50	mg/kg	250	700	240	190
TRH C10-C36 (Total)	50	mg/kg	520	1800	530	380
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	%	51	74	87	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	310	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	310	< 50	< 50

Client Sample ID			SB11_0.8-0.9	SB12_0.1-0.2	SB13_0.1-0.2	SB14_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13339	M21-Ja13340	M21-Ja13341	M21-Ja13342
Date Sampled			Dec 08, 2020	Dec 08, 2020	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C16-C34	100	mg/kg	450	1000	480	320
TRH >C34-C40	100	mg/kg	160	380	140	170
TRH >C10-C40 (total)*	100	mg/kg	610	1690	620	490
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	7.4	6.9	7.3	6.7
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	7.4	6.9	7.3	6.9
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	7.4	6.9	7.3	7.2
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	3.2	2.1	4.0	2.7
Benzo(a)pyrene	0.5	mg/kg	5.1	4.8	4.8	5.3
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	3.3	4.0	4.5	3.8
Benzo(g.h.i)perylene	0.5	mg/kg	3.5	2.9	3.0	2.7
Benzo(k)fluoranthene	0.5	mg/kg	4.5	2.9	2.6	4.0
Chrysene	0.5	mg/kg	3.7	2.1	3.4	3.7
Dibenz(a.h)anthracene	0.5	mg/kg	0.8	0.9	0.9	< 0.5
Fluoranthene	0.5	mg/kg	6.2	4.7	6.6	4.4
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	2.9	2.4	4.1	2.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	2.0	1.8	1.9	1.8
Pyrene	0.5	mg/kg	6.8	5.1	6.8	6.0
Total PAH*	0.5	mg/kg	42	33.7	42.6	36.9
2-Fluorobiphenyl (surr.)	1	%	85	76	100	64
p-Terphenyl-d14 (surr.)	1	%	87	59	59	132
Heavy Metals						
Arsenic	2	mg/kg	64	17	4.4	6.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	83	14	9.7	8.8
Copper	5	mg/kg	26	23	10	8.2
Lead	5	mg/kg	110	97	53	62
Mercury	0.1	mg/kg	< 0.2	< 0.2	< 0.1	< 0.1
Molybdenum	5	mg/kg	-	-	-	< 5
Nickel	5	mg/kg	38	15	9.1	7.7
Selenium	2	mg/kg	-	-	-	< 2
Silver	2	mg/kg	-	-	-	< 2
Tin	10	mg/kg	-	-	-	< 10
Zinc	5	mg/kg	140	160	96	70
% Moisture	1	%	29	6.4	18	19
Chromium (hexavalent)	1	mg/kg	-	-	-	< 1
Cyanide (total)	5	mg/kg	-	-	-	< 5
Fluoride (Total)	100	mg/kg	-	-	-	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	-	7.4
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			SB11_0.8-0.9	SB12_0.1-0.2	SB13_0.1-0.2	SB14_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13339	M21-Ja13340	M21-Ja13341	M21-Ja13342
Date Sampled			Dec 08, 2020	Dec 08, 2020	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trichlorobenzene	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

Client Sample ID			SB11_0.8-0.9	SB12_0.1-0.2	SB13_0.1-0.2	SB14_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13339	M21-Ja13340	M21-Ja13341	M21-Ja13342
Date Sampled			Dec 08, 2020	Dec 08, 2020	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	-	-	-	95
Toluene-d8 (surr.)	1	%	-	-	-	66
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-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	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-BHC (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	0.1	mg/kg	-	-	-	< 0.1
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
Dibutylchlorendate (surr.)	1	%	-	-	-	145
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
Dibutylchlorendate (surr.)	1	%	-	-	-	145
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	95

Client Sample ID			SB11_0.8-0.9	SB12_0.1-0.2	SB13_0.1-0.2	SB14_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13339	M21-Ja13340	M21-Ja13341	M21-Ja13342
Date Sampled			Dec 08, 2020	Dec 08, 2020	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.4.6-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.6-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	-	-	-	< 1
Pentachlorophenol	1	mg/kg	-	-	-	< 1
Tetrachlorophenols - Total	10	mg/kg	-	-	-	< 10
Total Halogenated Phenol*	1	mg/kg	-	-	-	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	-	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	-	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
2-Nitrophenol	1.0	mg/kg	-	-	-	< 1
2.4-Dimethylphenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dinitrophenol	5	mg/kg	-	-	-	< 5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
4-Nitrophenol	5	mg/kg	-	-	-	< 5
Dinoseb	20	mg/kg	-	-	-	< 20
Phenol	0.5	mg/kg	-	-	-	< 0.5
Total Non-Halogenated Phenol*	20	mg/kg	-	-	-	< 20
Phenol-d6 (surr.)	1	%	-	-	-	74

Client Sample ID			SB15_0.1-0.2	SB16_0.05-0.15	SB16_0.45-0.55	SB17_0.05-0.15
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13343	M21-Ja13344	M21-Ja13345	M21-Ja13346
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 200	< 20
TRH C15-C28	50	mg/kg	< 50	300	6300	94
TRH C29-C36	50	mg/kg	< 50	310	3000	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	610	9300	94
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	%	-	104	-	103
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	< 500	< 50

Client Sample ID			SB15_0.1-0.2	SB16_0.05-0.15	SB16_0.45-0.55	SB17_0.05-0.15
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13343	M21-Ja13344	M21-Ja13345	M21-Ja13346
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 500	< 50
TRH >C16-C34	100	mg/kg	< 100	530	8900	130
TRH >C34-C40	100	mg/kg	< 100	180	1100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	710	10000	130
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	11	410	4.9
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	11	410	4.9
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	11	410	4.9
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	1.4	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	10	0.8
Anthracene	0.5	mg/kg	< 0.5	< 0.5	67	2.2
Benz(a)anthracene	0.5	mg/kg	< 0.5	4.4	180	4.7
Benzo(a)pyrene	0.5	mg/kg	< 0.5	6.6	300	3.0
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	5.3	200	2.4
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	4.7	100	1.7
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	5.9	190	3.2
Chrysene	0.5	mg/kg	< 0.5	4.7	240	3.1
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	1.8	38	0.6
Fluoranthene	0.5	mg/kg	< 0.5	8.0	300	12
Fluorene	0.5	mg/kg	< 0.5	< 0.5	2.2	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	4.7	140	1.8
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	8.8	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	2.1	100	10
Pyrene	0.5	mg/kg	< 0.5	8.5	360	9.7
Total PAH*	0.5	mg/kg	< 0.5	56.7	2237.4	55.2
2-Fluorobiphenyl (surr.)	1	%	91	70	88	79
p-Terphenyl-d14 (surr.)	1	%	63	67	105	80
Heavy Metals						
Arsenic	2	mg/kg	< 2	10	15	32
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	12	18	23
Copper	5	mg/kg	< 5	50	43	7.2
Lead	5	mg/kg	31	330	320	39
Mercury	0.1	mg/kg	< 0.1	< 0.2	< 0.2	< 0.2
Molybdenum	5	mg/kg	< 5	-	< 5	-
Nickel	5	mg/kg	< 5	17	53	< 5
Selenium	2	mg/kg	< 2	-	< 2	-
Silver	2	mg/kg	< 2	-	< 2	-
Tin	10	mg/kg	< 10	-	21	-
Zinc	5	mg/kg	46	320	380	160
% Moisture	1	%	6.9	8.4	1.4	3.9
Chromium (hexavalent)	1	mg/kg	1.1	-	< 1	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	-	60
Cyanide (total)	5	mg/kg	< 5	-	< 5	-
Fluoride (Total)	100	mg/kg	< 100	-	< 100	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.0	-	8.7	-
Exchangeable Sodium Percentage (ESP)	0.1	%	-	-	-	2.3
Magnesium (exchangeable)	0.1	meq/100g	-	-	-	1.2

Client Sample ID			SB15_0.1-0.2	SB16_0.05-0.15	SB16_0.45-0.55	SB17_0.05-0.15
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13343	M21-Ja13344	M21-Ja13345	M21-Ja13346
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
Potassium (exchangeable)	0.1	meq/100g	-	-	-	0.9
Sodium (exchangeable)	0.1	meq/100g	-	-	-	0.2
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	< 0.5	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	-
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	-
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	-
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	-

Client Sample ID			SB15_0.1-0.2	SB16_0.05-0.15	SB16_0.45-0.55	SB17_0.05-0.15
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13343	M21-Ja13344	M21-Ja13345	M21-Ja13346
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	93	-	126	-
Toluene-d8 (surr.)	1	%	68	-	92	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.2	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.2	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.2	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.2	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.2	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.2	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.2	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.2	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.2	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.2	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.2	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.2	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.2	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.2	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.2	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.2	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.2	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.2	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.2	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.2	-
Toxaphene	0.1	mg/kg	< 0.1	-	< 0.2	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.2	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.2	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.2	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.2	-
Dibutylchlorendate (surr.)	1	%	95	-	132	-
Tetrachloro-m-xylene (surr.)	1	%	100	-	82	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.2	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.2	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.2	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.2	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.2	-

Client Sample ID			SB15_0.1-0.2	SB16_0.05-0.15	SB16_0.45-0.55	SB17_0.05-0.15
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13343	M21-Ja13344	M21-Ja13345	M21-Ja13346
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.2	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.2	-
Total PCB*	0.1	mg/kg	< 0.1	-	<0.2	-
Dibutylchlorendate (surr.)	1	%	95	-	132	-
Tetrachloro-m-xylene (surr.)	1	%	100	-	82	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	< 1	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	< 1	-
Pentachlorophenol	1	mg/kg	< 1	-	< 1	-
Tetrachlorophenols - Total	10	mg/kg	< 10	-	< 10	-
Total Halogenated Phenol*	1	mg/kg	< 1	-	< 1	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	-	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	< 0.2	-
2-Nitrophenol	1.0	mg/kg	< 1	-	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	< 5	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	< 0.4	-
4-Nitrophenol	5	mg/kg	< 5	-	< 5	-
Dinoseb	20	mg/kg	< 20	-	< 20	-
Phenol	0.5	mg/kg	< 0.5	-	< 0.5	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	< 20	-
Phenol-d6 (surr.)	1	%	82	-	60	-
Cation Exchange Capacity						
Calcium (exchangeable)	0.1	meq/100g	-	-	-	6.1
Cation Exchange Capacity	0.05	meq/100g	-	-	-	8.3

Client Sample ID			SB18_0.1-0.2	SB18_0.4-0.5	SB21_0.1-0.2	SB22_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13347	M21-Ja13348	M21-Ja13349	M21-Ja13350
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	120	440	86	120
TRH C29-C36	50	mg/kg	150	320	110	120
TRH C10-C36 (Total)	50	mg/kg	270	760	196	240

Client Sample ID			SB18_0.1-0.2	SB18_0.4-0.5	SB21_0.1-0.2	SB22_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13347	M21-Ja13348	M21-Ja13349	M21-Ja13350
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
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	%	101	-	98	93
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	230	700	170	210
TRH >C34-C40	100	mg/kg	< 100	150	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	230	850	170	210
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	2.7	1.5	1.9	2.7
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	3.0	1.8	1.9	3.0
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	3.2	2.0	1.9	3.2
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	1.1	0.8	0.7	1.9
Benzo(a)pyrene	0.5	mg/kg	2.2	1.2	1.1	2.1
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.3	0.8	1.0	1.3
Benzo(g.h.i)perylene	0.5	mg/kg	1.4	0.7	1.0	1.4
Benzo(k)fluoranthene	0.5	mg/kg	1.4	0.9	0.7	1.3
Chrysene	0.5	mg/kg	0.9	0.9	0.6	1.6
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5
Fluoranthene	0.5	mg/kg	2.0	1.3	1.3	3.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.3	0.6	0.7	1.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.7	< 0.5	< 0.5	1.3
Pyrene	0.5	mg/kg	2.1	1.4	1.4	3.4
Total PAH*	0.5	mg/kg	14.4	8.6	9	19.3
2-Fluorobiphenyl (surr.)	1	%	92	84	89	73
p-Terphenyl-d14 (surr.)	1	%	84	87	88	66
Heavy Metals						
Arsenic	2	mg/kg	5.1	25	2.7	13
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.8
Chromium	5	mg/kg	19	32	8.8	16
Copper	5	mg/kg	19	100	9.4	160
Lead	5	mg/kg	86	650	23	360
Mercury	0.1	mg/kg	< 0.1	< 0.4	< 0.1	< 0.2
Molybdenum	5	mg/kg	-	< 5	-	-
Nickel	5	mg/kg	15	64	8.1	21
Selenium	2	mg/kg	-	< 2	-	-

Client Sample ID			SB18_0.1-0.2	SB18_0.4-0.5	SB21_0.1-0.2	SB22_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13347	M21-Ja13348	M21-Ja13349	M21-Ja13350
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Silver	2	mg/kg	-	< 2	-	-
Tin	10	mg/kg	-	550	-	-
Zinc	5	mg/kg	110	310	58	560
% Moisture	1	%	13	9.1	6.5	10
Chromium (hexavalent)	1	mg/kg	-	< 1	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
Fluoride (Total)	100	mg/kg	-	< 100	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	7.5	-	-
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	-	< 0.5	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trichlorobenzene	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	-	-

Client Sample ID			SB18_0.1-0.2	SB18_0.4-0.5	SB21_0.1-0.2	SB22_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13347	M21-Ja13348	M21-Ja13349	M21-Ja13350
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	-	100	-	-
Toluene-d8 (surr.)	1	%	-	72	-	-
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-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	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-BHC (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	0.1	mg/kg	-	< 0.1	-	-
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	-	-
Dibutylchlorendate (surr.)	1	%	-	88	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	110	-	-

Client Sample ID			SB18_0.1-0.2	SB18_0.4-0.5	SB21_0.1-0.2	SB22_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13347	M21-Ja13348	M21-Ja13349	M21-Ja13350
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
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	%	-	88	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	110	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	10	mg/kg	-	< 10	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
2-Nitrophenol	1.0	mg/kg	-	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Phenol-d6 (surr.)	1	%	-	47	-	-

Client Sample ID			SB23_0.1-0.2	SB23_0.35-0.45	SB24_0.1-0.2	SB24_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13351	M21-Ja13352	M21-Ja13353	M21-Ja13354
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	24	53	< 20	< 20
TRH C15-C28	50	mg/kg	820	3800	57	< 50
TRH C29-C36	50	mg/kg	510	2900	100	< 50
TRH C10-C36 (Total)	50	mg/kg	1354	6753	157	< 50

Client Sample ID			SB23_0.1-0.2	SB23_0.35-0.45	SB24_0.1-0.2	SB24_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13351	M21-Ja13352	M21-Ja13353	M21-Ja13354
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
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	%	140	-	139	146
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	140	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	140	< 50	< 50
TRH >C16-C34	100	mg/kg	1200	5900	120	< 100
TRH >C34-C40	100	mg/kg	260	940	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	1460	6980	120	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	28	150	0.7	0.7
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	28	150	1.0	1.0
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	28	150	1.3	1.3
Acenaphthene	0.5	mg/kg	< 0.5	1.9	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	3.5	1.9	< 0.5	< 0.5
Anthracene	0.5	mg/kg	5.2	33	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	15	67	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	18	110	0.6	0.6
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	17	83	0.5	0.5
Benzo(g.h.i)perylene	0.5	mg/kg	8.1	24	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	15	81	0.5	0.6
Chrysene	0.5	mg/kg	22	63	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	4.2	11	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	39	130	0.6	0.7
Fluorene	0.5	mg/kg	2.5	3.9	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	11	36	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	4.1	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	37	72	< 0.5	< 0.5
Pyrene	0.5	mg/kg	41	140	0.6	0.8
Total PAH*	0.5	mg/kg	238.5	861.8	2.8	3.2
2-Fluorobiphenyl (surr.)	1	%	56	79	75	82
p-Terphenyl-d14 (surr.)	1	%	79	107	78	81
Heavy Metals						
Arsenic	2	mg/kg	16	23	16	15
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.7
Chromium	5	mg/kg	24	18	14	33
Copper	5	mg/kg	43	29	14	91
Lead	5	mg/kg	180	160	57	440
Mercury	0.1	mg/kg	< 0.2	< 0.2	< 0.1	< 0.4
Molybdenum	5	mg/kg	-	< 5	-	-
Nickel	5	mg/kg	16	47	8.1	38
Selenium	2	mg/kg	-	< 2	-	-

Client Sample ID			SB23_0.1-0.2	SB23_0.35-0.45	SB24_0.1-0.2	SB24_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13351	M21-Ja13352	M21-Ja13353	M21-Ja13354
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Silver	2	mg/kg	-	< 2	-	-
Tin	10	mg/kg	-	< 10	-	-
Zinc	5	mg/kg	230	240	91	420
% Moisture	1	%	13	7.8	19	19
Chromium (hexavalent)	1	mg/kg	-	< 1	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
Fluoride (Total)	100	mg/kg	-	< 100	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	8.3	-	-
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	-	< 0.5	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trichlorobenzene	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	-	-

Client Sample ID			SB23_0.1-0.2	SB23_0.35-0.45	SB24_0.1-0.2	SB24_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13351	M21-Ja13352	M21-Ja13353	M21-Ja13354
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	-	77	-	-
Toluene-d8 (surr.)	1	%	-	81	-	-
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-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	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-BHC (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	0.1	mg/kg	-	< 0.1	-	-
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	-	-
Dibutylchlorendate (surr.)	1	%	-	85	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	83	-	-

Client Sample ID			SB23_0.1-0.2	SB23_0.35-0.45	SB24_0.1-0.2	SB24_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13351	M21-Ja13352	M21-Ja13353	M21-Ja13354
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.2	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.2	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.2	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.2	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.2	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.2	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.2	-	-
Total PCB*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	85	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	83	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	10	mg/kg	-	< 10	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
2-Nitrophenol	1.0	mg/kg	-	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Phenol-d6 (surr.)	1	%	-	50	-	-

Client Sample ID			SB25_0.1-0.2	SB26_0.1-0.2	SB27_0.1-0.2	SB27_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13355	M21-Ja13356	M21-Ja13357	M21-Ja13358
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	380	< 20	22
TRH C15-C28	50	mg/kg	71	2000	< 50	580
TRH C29-C36	50	mg/kg	140	570	< 50	580
TRH C10-C36 (Total)	50	mg/kg	211	2950	< 50	1182

Client Sample ID			SB25_0.1-0.2	SB26_0.1-0.2	SB27_0.1-0.2	SB27_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13355	M21-Ja13356	M21-Ja13357	M21-Ja13358
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 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	%	-	-	144	150
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	580	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	580	< 50	< 50
TRH >C16-C34	100	mg/kg	160	2300	< 100	950
TRH >C34-C40	100	mg/kg	< 100	450	< 100	350
TRH >C10-C40 (total)*	100	mg/kg	160	3330	< 100	1300
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.3	< 0.5	< 0.5	16
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.6	0.6	0.6	16
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.8	1.2	1.2	16
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	0.6
Benz(a)anthracene	0.5	mg/kg	0.6	< 0.5	< 0.5	3.9
Benzo(a)pyrene	0.5	mg/kg	1.0	< 0.5	< 0.5	11
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.0	< 0.5	< 0.5	9.8
Benzo(g.h.i)perylene	0.5	mg/kg	0.7	< 0.5	< 0.5	4.4
Benzo(k)fluoranthene	0.5	mg/kg	0.9	< 0.5	< 0.5	7.7
Chrysene	0.5	mg/kg	0.9	< 0.5	< 0.5	8.2
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.1
Fluoranthene	0.5	mg/kg	1.0	0.5	< 0.5	10
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	7.8
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.8
Pyrene	0.5	mg/kg	1.2	0.5	< 0.5	11
Total PAH*	0.5	mg/kg	7.8	1	< 0.5	79.3
2-Fluorobiphenyl (surr.)	1	%	92	75	74	116
p-Terphenyl-d14 (surr.)	1	%	68	77	73	89
Heavy Metals						
Arsenic	2	mg/kg	4.1	3.2	2.3	2.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.1	6.0	9.4	20
Copper	5	mg/kg	12	8.2	7.3	8.3
Lead	5	mg/kg	52	41	38	63
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	-	-
Nickel	5	mg/kg	6.0	< 5	5.6	7.7
Selenium	2	mg/kg	< 2	< 2	-	-

Client Sample ID			SB25_0.1-0.2	SB26_0.1-0.2	SB27_0.1-0.2	SB27_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13355	M21-Ja13356	M21-Ja13357	M21-Ja13358
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Silver	2	mg/kg	< 2	< 2	-	-
Tin	10	mg/kg	< 10	< 10	-	-
Zinc	5	mg/kg	71	55	57	42
% Moisture	1	%	11	4.9	6.3	7.2
Chromium (hexavalent)	1	mg/kg	< 1	< 1	-	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	56	-
Cyanide (total)	5	mg/kg	< 5	< 5	-	-
Fluoride (Total)	100	mg/kg	< 100	< 100	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.5	8.1	7.2	-
Chloride	5	mg/kg	-	-	110	-
Resistivity*	0.5	ohm.m	-	-	180	-
Sulphate (as SO4)	30	mg/kg	-	-	47	-
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	-	-
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromoform	0.5	mg/kg	< 0.5	< 0.5	-	-
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Chloroform	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			SB25_0.1-0.2	SB26_0.1-0.2	SB27_0.1-0.2	SB27_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13355	M21-Ja13356	M21-Ja13357	M21-Ja13358
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	-
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	-
Styrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	-
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	99	85	-	-
Toluene-d8 (surr.)	1	%	87	63	-	-
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-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	0.1	mg/kg	< 0.1	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-

Client Sample ID			SB25_0.1-0.2	SB26_0.1-0.2	SB27_0.1-0.2	SB27_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13355	M21-Ja13356	M21-Ja13357	M21-Ja13358
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	-	-
Dibutylchlorendate (surr.)	1	%	100	85	-	-
Tetrachloro-m-xylene (surr.)	1	%	67	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	-	-
Dibutylchlorendate (surr.)	1	%	100	85	-	-
Tetrachloro-m-xylene (surr.)	1	%	67	87	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	-	-
Pentachlorophenol	1	mg/kg	< 1	< 1	-	-
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	-	-
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	-	-
2-Nitrophenol	1.0	mg/kg	< 1	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	-	-
4-Nitrophenol	5	mg/kg	< 5	< 5	-	-
Dinoseb	20	mg/kg	< 20	< 20	-	-
Phenol	0.5	mg/kg	< 0.5	< 0.5	-	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	-	-
Phenol-d6 (surr.)	1	%	73	86	-	-

Client Sample ID			SB28_0.1-0.2	SB28_0.6-0.7	SB29_0.05-0.15	SB30_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13359	M21-Ja13360	M21-Ja13361	M21-Ja13363
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	510	580	52
TRH C29-C36	50	mg/kg	< 50	540	480	110
TRH C10-C36 (Total)	50	mg/kg	< 50	1050	1060	162
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	%	136	-	146	137
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	870	900	120
TRH >C34-C40	100	mg/kg	< 100	210	250	110
TRH >C10-C40 (total)*	100	mg/kg	< 100	1080	1150	230
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	9.4	18	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	9.6	18	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	9.9	18	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	1.1	< 0.5
Anthracene	0.5	mg/kg	< 0.5	0.5	2.6	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	3.3	6.2	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	7.5	13	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	6.1	11	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	5.4	7.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	4.4	7.9	< 0.5
Chrysene	0.5	mg/kg	< 0.5	3.3	6.2	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	2.2	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	6.2	17	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	0.8	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	4.3	6.4	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	2.1	11	< 0.5
Pyrene	0.5	mg/kg	< 0.5	6.8	17	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	49.9	109.9	< 0.5
2-Fluorobiphenyl (surr.)	1	%	59	85	105	72
p-Terphenyl-d14 (surr.)	1	%	59	79	102	84

Client Sample ID			SB28_0.1-0.2	SB28_0.6-0.7	SB29_0.05-0.15	SB30_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13359	M21-Ja13360	M21-Ja13361	M21-Ja13363
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	15	12	9.3
Cadmium	0.4	mg/kg	< 0.4	0.6	0.6	< 0.4
Chromium	5	mg/kg	< 5	24	15	15
Copper	5	mg/kg	< 5	57	88	9.1
Lead	5	mg/kg	< 5	440	320	36
Mercury	0.1	mg/kg	< 0.1	< 0.4	< 0.2	< 0.1
Molybdenum	5	mg/kg	-	< 5	-	-
Nickel	5	mg/kg	< 5	33	23	7.7
Selenium	2	mg/kg	-	< 2	-	-
Silver	2	mg/kg	-	< 2	-	-
Tin	10	mg/kg	-	18	-	-
Zinc	5	mg/kg	< 5	320	470	53
% Moisture	1	%	9.4	13	11	9.8
Chromium (hexavalent)	1	mg/kg	-	< 1	-	-
Cyanide (total)	5	mg/kg	-	< 5	-	-
Fluoride (Total)	100	mg/kg	-	< 100	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	8.0	-	-
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	-	< 0.5	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trichlorobenzene	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	-	-

Client Sample ID			SB28_0.1-0.2	SB28_0.6-0.7	SB29_0.05-0.15	SB30_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13359	M21-Ja13360	M21-Ja13361	M21-Ja13363
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
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	-	-
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	%	-	97	-	-
Toluene-d8 (surr.)	1	%	-	77	-	-
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-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	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-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID			SB28_0.1-0.2	SB28_0.6-0.7	SB29_0.05-0.15	SB30_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13359	M21-Ja13360	M21-Ja13361	M21-Ja13363
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.1	mg/kg	-	< 0.1	-	-
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	-	-
Dibutylchlorendate (surr.)	1	%	-	133	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	84	-	-
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	%	-	133	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	84	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	10	mg/kg	-	< 10	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
2-Nitrophenol	1.0	mg/kg	-	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Phenol-d6 (surr.)	1	%	-	76	-	-

Client Sample ID			SB30_0.3-0.4	SB31_0.1-0.2	SB32_0.05-0.15	SB33_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13364	M21-Ja13365	M21-Ja13366	M21-Ja13367
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	180	180	120
TRH C29-C36	50	mg/kg	< 50	170	200	110
TRH C10-C36 (Total)	50	mg/kg	< 50	350	380	230
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	%	144	130	-	67
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	300	310	200
TRH >C34-C40	100	mg/kg	< 100	120	150	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	420	460	200
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	0.8	3.0	6.1	2.4
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.1	3.2	6.4	2.7
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.3	3.5	6.6	2.9
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	0.6	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.6	1.3	2.2	1.3
Benzo(a)pyrene	0.5	mg/kg	0.6	2.3	4.8	1.9
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.5	1.7	3.5	1.3
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	1.6	3.4	1.3
Benzo(k)fluoranthene	0.5	mg/kg	0.6	2.0	3.7	1.6
Chrysene	0.5	mg/kg	0.5	1.7	3.4	1.4
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.7	3.0	5.5	2.6
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	1.3	3.0	1.0
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	1.1	2.2	1.1
Pyrene	0.5	mg/kg	0.8	3.2	6.1	2.8
Total PAH*	0.5	mg/kg	4.3	19.2	38.4	16.3
2-Fluorobiphenyl (surr.)	1	%	71	96	88	84
p-Terphenyl-d14 (surr.)	1	%	71	107	87	100

Client Sample ID			SB30_0.3-0.4	SB31_0.1-0.2	SB32_0.05-0.15	SB33_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13364	M21-Ja13365	M21-Ja13366	M21-Ja13367
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	57	4.9	9.5	17
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	76	15	16	23
Copper	5	mg/kg	13	24	25	19
Lead	5	mg/kg	48	130	140	75
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.2	< 0.1
Molybdenum	5	mg/kg	-	-	< 5	-
Nickel	5	mg/kg	27	14	16	14
Selenium	2	mg/kg	-	-	< 2	-
Silver	2	mg/kg	-	-	< 2	-
Tin	10	mg/kg	-	-	< 10	-
Zinc	5	mg/kg	60	120	180	84
% Moisture	1	%	15	22	7.5	8.1
Chromium (hexavalent)	1	mg/kg	-	-	< 1	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
Fluoride (Total)	100	mg/kg	-	-	130	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	7.7	-
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	-	-	< 0.5	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trichlorobenzene	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	-

Client Sample ID			SB30_0.3-0.4	SB31_0.1-0.2	SB32_0.05-0.15	SB33_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13364	M21-Ja13365	M21-Ja13366	M21-Ja13367
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
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	-
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	%	-	-	106	-
Toluene-d8 (surr.)	1	%	-	-	89	-
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-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	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-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-

Client Sample ID			SB30_0.3-0.4	SB31_0.1-0.2	SB32_0.05-0.15	SB33_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13364	M21-Ja13365	M21-Ja13366	M21-Ja13367
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.1	mg/kg	-	-	< 0.1	-
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	-
Dibutylchlorendate (surr.)	1	%	-	-	84	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	110	-
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	%	-	-	84	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	110	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4.5-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.4.6-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	-	-	< 1	-
Pentachlorophenol	1	mg/kg	-	-	< 1	-
Tetrachlorophenols - Total	10	mg/kg	-	-	< 10	-
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
2-Nitrophenol	1.0	mg/kg	-	-	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
Dinoseb	20	mg/kg	-	-	< 20	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	-
Phenol-d6 (surr.)	1	%	-	-	89	-

Client Sample ID			SB34_0.1-0.2	SB34_0.4-0.5	SB35_0.1-0.2	SB36_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13368	M21-Ja13369	M21-Ja13370	M21-Ja13371
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	560	< 20	< 20
TRH C15-C28	50	mg/kg	58	1100	230	370
TRH C29-C36	50	mg/kg	110	630	280	370
TRH C10-C36 (Total)	50	mg/kg	168	2290	510	740
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	%	82	-	-	58
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	410	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	410	< 50	< 50
TRH >C16-C34	100	mg/kg	130	1500	410	620
TRH >C34-C40	100	mg/kg	< 100	230	110	160
TRH >C10-C40 (total)*	100	mg/kg	130	2140	520	780
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	19	7.2	9.0
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	19	7.5	9.2
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	19	7.7	9.5
Acenaphthene	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	5.8	< 0.5	0.8
Benz(a)anthracene	0.5	mg/kg	< 0.5	8.2	3.1	2.6
Benzo(a)pyrene	0.5	mg/kg	< 0.5	14	5.9	7.3
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	10	4.1	5.7
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	6.8	2.4	4.1
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	9.6	4.0	4.2
Chrysene	0.5	mg/kg	< 0.5	16	6.1	2.6
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	1.2	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.6	21	4.9	8.3
Fluorene	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	6.6	1.4	3.6
Naphthalene	0.5	mg/kg	< 0.5	1.3	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	16	2.5	3.3
Pyrene	0.5	mg/kg	0.5	24	6.1	8.8
Total PAH*	0.5	mg/kg	1.1	142.3	40.5	51.3
2-Fluorobiphenyl (surr.)	1	%	81	79	88	74
p-Terphenyl-d14 (surr.)	1	%	83	107	79	64

Client Sample ID			SB34_0.1-0.2	SB34_0.4-0.5	SB35_0.1-0.2	SB36_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13368	M21-Ja13369	M21-Ja13370	M21-Ja13371
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.2	25	21	13
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.4
Chromium	5	mg/kg	6.9	26	26	24
Copper	5	mg/kg	8.3	49	17	38
Lead	5	mg/kg	36	190	100	230
Mercury	0.1	mg/kg	< 0.1	< 0.2	< 0.1	< 0.2
Molybdenum	5	mg/kg	-	< 5	< 5	-
Nickel	5	mg/kg	< 5	29	16	25
Selenium	2	mg/kg	-	< 2	< 2	-
Silver	2	mg/kg	-	< 2	< 2	-
Tin	10	mg/kg	-	52	< 10	-
Zinc	5	mg/kg	51	220	100	280
% Moisture	1	%	12	15	9.8	7.1
Chromium (hexavalent)	1	mg/kg	-	< 1	< 1	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	210	-	-	-
Cyanide (total)	5	mg/kg	-	< 5	< 5	-
Fluoride (Total)	100	mg/kg	-	< 100	160	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	7.5	7.0	-
Exchangeable Sodium Percentage (ESP)	0.1	%	11	-	-	-
Magnesium (exchangeable)	0.1	meq/100g	2.3	-	-	-
Potassium (exchangeable)	0.1	meq/100g	0.9	-	-	-
Sodium (exchangeable)	0.1	meq/100g	1.2	-	-	-
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	-	< 0.5	< 0.5	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-

Client Sample ID			SB34_0.1-0.2	SB34_0.4-0.5	SB35_0.1-0.2	SB36_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13368	M21-Ja13369	M21-Ja13370	M21-Ja13371
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	80	83	-
Toluene-d8 (surr.)	1	%	-	60	64	-
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-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-

Client Sample ID			SB34_0.1-0.2	SB34_0.4-0.5	SB35_0.1-0.2	SB36_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13368	M21-Ja13369	M21-Ja13370	M21-Ja13371
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 12, 2021	Jan 12, 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-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.1	mg/kg	-	< 0.1	< 0.1	-
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	-
Dibutylchlorendate (surr.)	1	%	-	129	77	-
Tetrachloro-m-xylene (surr.)	1	%	-	80	53	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.2	< 0.2	-
Aroclor-1221	0.1	mg/kg	-	< 0.2	< 0.2	-
Aroclor-1232	0.1	mg/kg	-	< 0.2	< 0.2	-
Aroclor-1242	0.1	mg/kg	-	< 0.2	< 0.2	-
Aroclor-1248	0.1	mg/kg	-	< 0.2	< 0.2	-
Aroclor-1254	0.1	mg/kg	-	< 0.2	< 0.2	-
Aroclor-1260	0.1	mg/kg	-	< 0.2	< 0.2	-
Total PCB*	0.1	mg/kg	-	< 0.2	< 0.2	-
Dibutylchlorendate (surr.)	1	%	-	129	77	-
Tetrachloro-m-xylene (surr.)	1	%	-	80	53	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	< 1	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	< 1	-
Pentachlorophenol	1	mg/kg	-	< 1	< 1	-
Tetrachlorophenols - Total	10	mg/kg	-	< 10	< 10	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	< 1	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	< 0.2	-
2-Nitrophenol	1.0	mg/kg	-	< 1	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	< 5	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	< 0.4	-
4-Nitrophenol	5	mg/kg	-	< 5	< 5	-
Dinoseb	20	mg/kg	-	< 20	< 20	-
Phenol	0.5	mg/kg	-	< 0.5	< 0.5	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	< 20	-
Phenol-d6 (surr.)	1	%	-	49	68	-

Client Sample ID			SB34_0.1-0.2	SB34_0.4-0.5	SB35_0.1-0.2	SB36_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13368	M21-Ja13369	M21-Ja13370	M21-Ja13371
Date Sampled			Jan 13, 2021	Jan 13, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Cation Exchange Capacity						
Calcium (exchangeable)	0.1	meq/100g	6.0	-	-	-
Cation Exchange Capacity	0.05	meq/100g	10	-	-	-

Client Sample ID			SB36_0.4-0.5	SB37_0.1-0.2	SB37_0.5-0.6	SB38_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13372	M21-Ja13373	M21-Ja13374	M21-Ja13375
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	310	330	530	690
TRH C29-C36	50	mg/kg	270	470	500	650
TRH C10-C36 (Total)	50	mg/kg	580	800	1030	1360
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	%	106	87	85	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	500	640	900	1200
TRH >C34-C40	100	mg/kg	190	190	280	370
TRH >C10-C40 (total)*	100	mg/kg	690	830	1180	1570
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	10	9.7	15	30
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	10	9.7	15	30
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	10	9.7	15	30
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	0.6	< 0.5	0.6	1.8
Anthracene	0.5	mg/kg	0.6	< 0.5	0.8	2.3
Benz(a)anthracene	0.5	mg/kg	4.4	2.7	5.8	10
Benzo(a)pyrene	0.5	mg/kg	7.5	6.7	11	21
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	5.0	5.8	8.4	14
Benzo(g.h.i)perylene	0.5	mg/kg	4.0	5.0	6.3	15
Benzo(k)fluoranthene	0.5	mg/kg	3.7	4.2	7.5	18
Chrysene	0.5	mg/kg	6.0	2.7	8.8	14
Dibenz(a.h)anthracene	0.5	mg/kg	1.3	1.3	1.0	2.9
Fluoranthene	0.5	mg/kg	11	4.6	15	22
Fluorene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	2.8	4.0	3.0	12

Client Sample ID			SB36_0.4-0.5	SB37_0.1-0.2	SB37_0.5-0.6	SB38_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13372	M21-Ja13373	M21-Ja13374	M21-Ja13375
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Phenanthrene	0.5	mg/kg	2.7	1.1	4.6	8.1
Pyrene	0.5	mg/kg	12	5.4	16	24
Total PAH*	0.5	mg/kg	61.6	43.5	89.4	165.7
2-Fluorobiphenyl (surr.)	1	%	116	107	121	74
p-Terphenyl-d14 (surr.)	1	%	107	107	114	86
Heavy Metals						
Arsenic	2	mg/kg	22	5.8	9.0	22
Cadmium	0.4	mg/kg	0.5	< 0.4	0.4	< 0.4
Chromium	5	mg/kg	39	9.2	21	26
Copper	5	mg/kg	140	20	47	27
Lead	5	mg/kg	410	220	400	260
Mercury	0.1	mg/kg	0.2	0.1	0.2	0.3
Molybdenum	5	mg/kg	-	-	-	< 5
Nickel	5	mg/kg	51	12	36	35
Selenium	2	mg/kg	-	-	-	< 2
Silver	2	mg/kg	-	-	-	< 2
Tin	10	mg/kg	-	-	-	< 10
Zinc	5	mg/kg	380	140	350	160
% Moisture	1	%	6.9	7.7	8.8	14
Chromium (hexavalent)	1	mg/kg	-	-	-	< 1
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	76	-	-
Cyanide (total)	5	mg/kg	-	-	-	< 5
Fluoride (Total)	100	mg/kg	-	-	-	100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	7.5	-	7.9
Chloride	5	mg/kg	-	150	-	-
Resistivity*	0.5	ohm.m	-	130	-	-
Sulphate (as SO4)	30	mg/kg	-	37	-	-
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	-	-	-	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trichlorobenzene	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

Client Sample ID			SB36_0.4-0.5	SB37_0.1-0.2	SB37_0.5-0.6	SB38_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13372	M21-Ja13373	M21-Ja13374	M21-Ja13375
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
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
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	%	-	-	-	72
Toluene-d8 (surr.)	1	%	-	-	-	54
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-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05

Client Sample ID			SB36_0.4-0.5	SB37_0.1-0.2	SB37_0.5-0.6	SB38_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13372	M21-Ja13373	M21-Ja13374	M21-Ja13375
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	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-BHC (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	0.1	mg/kg	-	-	-	< 0.1
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
Dibutylchlorendate (surr.)	1	%	-	-	-	93
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	103
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	%	-	-	-	103
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.4.6-Trichlorophenol	1	mg/kg	-	-	-	< 1
2.6-Dichlorophenol	0.5	mg/kg	-	-	-	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	-	-	-	< 1
Pentachlorophenol	1	mg/kg	-	-	-	< 1
Tetrachlorophenols - Total	10	mg/kg	-	-	-	< 10
Total Halogenated Phenol*	1	mg/kg	-	-	-	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	-	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	-	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	-	< 0.2
2-Nitrophenol	1.0	mg/kg	-	-	-	< 1
2.4-Dimethylphenol	0.5	mg/kg	-	-	-	< 0.5
2.4-Dinitrophenol	5	mg/kg	-	-	-	< 5

Client Sample ID			SB36_0.4-0.5	SB37_0.1-0.2	SB37_0.5-0.6	SB38_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13372	M21-Ja13373	M21-Ja13374	M21-Ja13375
Date Sampled			Jan 12, 2021	Jan 12, 2021	Jan 12, 2021	Jan 12, 2021
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	-	< 0.4
4-Nitrophenol	5	mg/kg	-	-	-	< 5
Dinoseb	20	mg/kg	-	-	-	< 20
Phenol	0.5	mg/kg	-	-	-	< 0.5
Total Non-Halogenated Phenol*	20	mg/kg	-	-	-	< 20
Phenol-d6 (surr.)	1	%	-	-	-	79

Client Sample ID			QC01	QC03	QC05
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13376	M21-Ja13377	M21-Ja13378
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	98	320	230
TRH C29-C36	50	mg/kg	130	400	260
TRH C10-C36 (Total)	50	mg/kg	228	720	490
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	%	77	104	53
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
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	180	600	410
TRH >C34-C40	100	mg/kg	< 100	260	200
TRH >C10-C40 (total)*	100	mg/kg	180	860	610
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.9	14	5.2
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	2.2	14	5.2
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	2.4	14	5.2
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	0.6	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.9	7.2	3.2
Benzo(a)pyrene	0.5	mg/kg	1.5	8.1	2.9
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.2	7.6	2.8
Benzo(g.h.i)perylene	0.5	mg/kg	0.7	6.7	2.3
Benzo(k)fluoranthene	0.5	mg/kg	1.3	7.8	3.0
Chrysene	0.5	mg/kg	1.1	7.0	2.9

Client Sample ID			QC01	QC03	QC05
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M21-Ja13376	M21-Ja13377	M21-Ja13378
Date Sampled			Jan 12, 2021	Jan 13, 2021	Jan 13, 2021
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	3.0	1.1
Fluoranthene	0.5	mg/kg	1.7	11	5.9
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.6	7.4	2.1
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.6	3.3	1.8
Pyrene	0.5	mg/kg	1.8	13	5.9
Total PAH*	0.5	mg/kg	11.4	82.7	33.9
2-Fluorobiphenyl (surr.)	1	%	78	99	94
p-Terphenyl-d14 (surr.)	1	%	83	105	96
Heavy Metals					
Arsenic	2	mg/kg	26	12	6.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	32	14	15
Copper	5	mg/kg	12	57	33
Lead	5	mg/kg	56	250	170
Mercury	0.1	mg/kg	0.1	0.2	0.1
Nickel	5	mg/kg	16	20	17
Zinc	5	mg/kg	72	330	150
% Moisture	1	%	8.9	8.9	17

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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
Vic EPA IWRG 621 (Solids)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Jan 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jan 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jan 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jan 21, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals IWRG 621 : Metals M12	Melbourne	Jan 21, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Chromium (hexavalent)	Melbourne	Jan 21, 2021	28 Days
- Method: APHA 3500-Cr Hexavalent Chromium- (Extraction:- USEPA3060)			
Cyanide (total)	Melbourne	Jan 21, 2021	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Fluoride (Total)	Melbourne	Jan 22, 2021	28 Days
- Method: LTM-INO-4150 Determination of Total Fluoride PART B – ISE			
pH (1:5 Aqueous extract at 25°C as rec.)	Melbourne	Jan 21, 2021	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Volatile Organics	Melbourne	Jan 21, 2021	7 Days
- Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS			
Volatile Organics	Melbourne	Jan 21, 2021	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Organochlorine Pesticides	Melbourne	Jan 21, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Jan 21, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Phenols (Halogenated)	Melbourne	Jan 21, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Jan 21, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Eurofins Suite B7			
BTEX	Melbourne	Jan 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Melbourne	Jan 21, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Melbourne	Jan 16, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Melbourne	Jan 21, 2021	7 Days
- Method: LTM-INO-4030 Conductivity			
Magnesium (exchangeable)	Melbourne	Jan 22, 2021	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity and ESP			
Potassium (exchangeable)	Melbourne	Jan 22, 2021	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity and ESP			
Sodium (exchangeable)	Melbourne	Jan 22, 2021	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity and ESP			
Cation Exchange Capacity	Melbourne	Jan 22, 2021	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
Exchangeable Sodium Percentage (ESP)	Melbourne	Jan 22, 2021	28 Days
- Method: LTM-MET-3060 - Cation Exchange Capacity (CEC) & Exchangeable Sodium Percentage (ESP)			

Description	Testing Site	Extracted	Holding Time
Chloride	Melbourne	Jan 21, 2021	28 Days
- Method: LTM-INO-4090 Chloride by Discrete Analyser			
Sulphate (as SO4)	Melbourne	Jan 21, 2021	28 Days
- Method: LTM-INO-4110 Sulfate by Discrete Analyser			

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Project Name: ELWOOD DSI
Project ID: M18310

Order No.:
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Phone: 9606 0070
Fax:

Received: Jan 14, 2021 5:00 PM
Due: Jan 21, 2021
Priority: 5 Day
Contact Name: Molly Hoak

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence	HOLD	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Vic EPA IWRG 621 (Solids)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	SB07_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13331					X	X	
2	SB07_0.7-0.8	Jan 12, 2021		Soil	M21-Ja13332					X	X	
3	SB08_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13333				X	X		X
4	SB09_0.1-0.2	Dec 08, 2020		Soil	M21-Ja13334					X	X	
5	SB09_0.4-0.5	Dec 08, 2020		Soil	M21-Ja13335					X	X	
6	SB10_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13336			X		X	X	
7	SB10_0.7-0.8	Jan 12, 2021		Soil	M21-Ja13337					X		X
8	SB11_0.1-0.2	Dec 08, 2020		Soil	M21-Ja13338					X		X
9	SB11_0.8-0.9	Dec 08, 2020		Soil	M21-Ja13339					X	X	

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
10	SB12_0.1-0.2	Dec 08, 2020		Soil	M21-Ja13340					X	X	
11	SB13_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13341					X	X	
12	SB14_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13342					X		X
13	SB15_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13343					X		X
14	SB16_0.05-0.15	Jan 13, 2021		Soil	M21-Ja13344					X	X	
15	SB16_0.45-0.55	Jan 13, 2021		Soil	M21-Ja13345					X		X
16	SB17_0.05-0.15	Jan 13, 2021		Soil	M21-Ja13346				X	X	X	
17	SB18_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13347					X	X	
18	SB18_0.4-0.5	Jan 13, 2021		Soil	M21-Ja13348					X		X

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
19	SB21_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13349					X	X	
20	SB22_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13350					X	X	
21	SB23_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13351					X	X	
22	SB23_0.35-0.45	Jan 12, 2021		Soil	M21-Ja13352					X		X
23	SB24_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13353					X	X	
24	SB24_0.9-1.0	Jan 12, 2021		Soil	M21-Ja13354					X	X	
25	SB25_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13355					X		X
26	SB26_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13356					X		X
27	SB27_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13357			X		X	X	
28	SB27_0.3-0.4	Jan 13, 2021		Soil	M21-Ja13358					X	X	

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
29	SB28_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13359					X	X	
30	SB28_0.6-0.7	Jan 13, 2021		Soil	M21-Ja13360					X		X
31	SB29_0.05-0.15	Jan 12, 2021		Soil	M21-Ja13361					X	X	
32	SB29_0.1	Jan 12, 2021		Building Materials	M21-Ja13362	X						
33	SB30_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13363					X	X	
34	SB30_0.3-0.4	Jan 12, 2021		Soil	M21-Ja13364					X	X	
35	SB31_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13365					X	X	
36	SB32_0.05-0.15	Jan 13, 2021		Soil	M21-Ja13366					X		X
37	SB33_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13367					X	X	

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Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
38	SB34_0.1-0.2	Jan 13, 2021		Soil	M21-Ja13368				X	X	X	
39	SB34_0.4-0.5	Jan 13, 2021		Soil	M21-Ja13369					X		X
40	SB35_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13370					X		X
41	SB36_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13371					X	X	
42	SB36_0.4-0.5	Jan 12, 2021		Soil	M21-Ja13372					X	X	
43	SB37_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13373			X		X	X	
44	SB37_0.5-0.6	Jan 12, 2021		Soil	M21-Ja13374					X	X	
45	SB38_0.1-0.2	Jan 12, 2021		Soil	M21-Ja13375					X		X
46	QC01	Jan 12, 2021		Soil	M21-Ja13376					X	X	
47	QC03	Jan 13, 2021		Soil	M21-Ja13377					X	X	
48	QC05	Jan 13, 2021		Soil	M21-Ja13378					X	X	

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
49	SB13_0.8-0.9	Jan 12, 2021		Soil	M21-Ja13379		X					
50	SB14_0.8-0.9	Jan 12, 2021		Soil	M21-Ja13380		X					
51	SB15_0.4-0.5	Jan 12, 2021		Soil	M21-Ja13381		X					
52	SB17_0.35-0.4	Jan 13, 2021		Soil	M21-Ja13382		X					
53	SB22_0.48-0.58	Jan 13, 2021		Soil	M21-Ja13383		X					
54	SB25_0.3-0.4	Jan 12, 2021		Soil	M21-Ja13384		X					
55	SB26_0.3-0.4	Jan 13, 2021		Soil	M21-Ja13385		X					
56	SB31_0.4-0.5	Jan 13, 2021		Soil	M21-Ja13386		X					
57	SB35_0.4-0.5	Jan 12, 2021		Soil	M21-Ja13387		X					
58	SB38_0.3-0.4	Jan 12, 2021		Soil	M21-Ja13388		X					

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217												
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
59	QC07	Jan 13, 2021		Soil	M21-Ja13389		X					
60	QC08	Jan 13, 2021		Soil	M21-Ja13390		X					
Test Counts						1	12	3	3	47	32	15

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.

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

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 5.3
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

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

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 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate 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 - 1999 NEPM Fractions							
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	
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							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
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							
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	
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury	mg/kg	< 0.1			0.1	Pass	
Molybdenum	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Silver	mg/kg	< 2			2	Pass	
Tin	mg/kg	< 10			10	Pass	
Zinc	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Cyanide (total)	mg/kg	< 5			5	Pass	
Fluoride (Total)	mg/kg	< 100			100	Pass	
Exchangeable Sodium Percentage (ESP)	%	24			0.1	Fail	
Magnesium (exchangeable)	meq/100g	0.1			0.1	Pass	
Potassium (exchangeable)	meq/100g	< 0.1			0.1	Pass	
Sodium (exchangeable)	meq/100g	0.1			0.1	Pass	
Method Blank							
Volatile Organics							
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	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	
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
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-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.1			0.1	Pass	
Method Blank							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
2-Nitrophenol	mg/kg	< 1			1.0	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Cation Exchange Capacity							
Calcium (exchangeable)	meq/100g	0.3			0.1	Fail	
Cation Exchange Capacity	meq/100g	0.48			0.05	Fail	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	115			70-130	Pass	
TRH C10-C14	%	101			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	98			70-130	Pass	
Toluene	%	107			70-130	Pass	
Ethylbenzene	%	110			70-130	Pass	
m&p-Xylenes	%	118			70-130	Pass	
Xylenes - Total*	%	115			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	104			70-130	Pass	
TRH C6-C10	%	104			70-130	Pass	
TRH >C10-C16	%	103			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	97			70-130	Pass	
Acenaphthylene	%	99			70-130	Pass	
Anthracene	%	103			70-130	Pass	
Benz(a)anthracene	%	107			70-130	Pass	
Benzo(a)pyrene	%	124			70-130	Pass	
Benzo(b&j)fluoranthene	%	94			70-130	Pass	
Benzo(g.h.i)perylene	%	92			70-130	Pass	
Benzo(k)fluoranthene	%	105			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chrysene	%	94			70-130	Pass	
Dibenz(a.h)anthracene	%	108			70-130	Pass	
Fluoranthene	%	88			70-130	Pass	
Fluorene	%	99			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	109			70-130	Pass	
Naphthalene	%	91			70-130	Pass	
Phenanthrene	%	87			70-130	Pass	
Pyrene	%	88			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	95			80-120	Pass	
Arsenic	%	111			80-120	Pass	
Cadmium	%	98			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	99			80-120	Pass	
Chromium	%	111			80-120	Pass	
Copper	%	98			80-120	Pass	
Copper	%	116			80-120	Pass	
Lead	%	103			80-120	Pass	
Lead	%	113			80-120	Pass	
Mercury	%	103			80-120	Pass	
Mercury	%	91			80-120	Pass	
Molybdenum	%	110			80-120	Pass	
Nickel	%	93			80-120	Pass	
Nickel	%	111			80-120	Pass	
Selenium	%	111			80-120	Pass	
Silver	%	101			80-120	Pass	
Tin	%	109			80-120	Pass	
Zinc	%	96			80-120	Pass	
Zinc	%	114			80-120	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	88			70-130	Pass	
Cyanide (total)	%	100			70-130	Pass	
Fluoride (Total)	%	85			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	77			70-130	Pass	
1.1.1-Trichloroethane	%	82			70-130	Pass	
1.2-Dichlorobenzene	%	83			70-130	Pass	
1.2-Dichloroethane	%	88			70-130	Pass	
Benzene	%	75			70-130	Pass	
Ethylbenzene	%	76			70-130	Pass	
m&p-Xylenes	%	93			70-130	Pass	
Toluene	%	87			70-130	Pass	
Trichloroethene	%	85			70-130	Pass	
Xylenes - Total*	%	91			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	87			70-130	Pass	
4.4'-DDD	%	85			70-130	Pass	
4.4'-DDE	%	89			70-130	Pass	
4.4'-DDT	%	78			70-130	Pass	
a-BHC	%	92			70-130	Pass	
Aldrin	%	96			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
b-BHC	%	85			70-130	Pass	
d-BHC	%	82			70-130	Pass	
Dieldrin	%	78			70-130	Pass	
Endosulfan I	%	88			70-130	Pass	
Endosulfan II	%	78			70-130	Pass	
Endosulfan sulphate	%	78			70-130	Pass	
Endrin	%	87			70-130	Pass	
Endrin aldehyde	%	77			70-130	Pass	
Endrin ketone	%	85			70-130	Pass	
g-BHC (Lindane)	%	98			70-130	Pass	
Heptachlor	%	86			70-130	Pass	
Heptachlor epoxide	%	84			70-130	Pass	
Hexachlorobenzene	%	93			70-130	Pass	
Methoxychlor	%	91			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	95			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	88			30-130	Pass	
2.4-Dichlorophenol	%	85			30-130	Pass	
2.4.5-Trichlorophenol	%	121			30-130	Pass	
2.4.6-Trichlorophenol	%	90			30-130	Pass	
2.6-Dichlorophenol	%	83			30-130	Pass	
4-Chloro-3-methylphenol	%	89			30-130	Pass	
Pentachlorophenol	%	80			30-130	Pass	
Tetrachlorophenols - Total	%	71			30-130	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	31			30-130	Pass	
2-Methyl-4.6-dinitrophenol	%	61			30-130	Pass	
2-Methylphenol (o-Cresol)	%	94			30-130	Pass	
2-Nitrophenol	%	92			30-130	Pass	
2.4-Dimethylphenol	%	90			30-130	Pass	
2.4-Dinitrophenol	%	39			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	92			30-130	Pass	
4-Nitrophenol	%	103			30-130	Pass	
Dinoseb	%	69			30-130	Pass	
Phenol	%	100			30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M21-Ja13333	CP	%	116			75-125	Pass	
Cadmium	M21-Ja13333	CP	%	100			75-125	Pass	
Chromium	M21-Ja13333	CP	%	130			75-125	Fail	Q08
Copper	M21-Ja13333	CP	%	97			75-125	Pass	
Lead	M21-Ja13333	CP	%	65			75-125	Fail	Q08
Mercury	M21-Ja13333	CP	%	78			75-125	Pass	
Molybdenum	M21-Ja13333	CP	%	113			75-125	Pass	
Nickel	M21-Ja13333	CP	%	107			75-125	Pass	
Selenium	M21-Ja13333	CP	%	92			75-125	Pass	
Silver	M21-Ja13333	CP	%	100			75-125	Pass	
Tin	M21-Ja13333	CP	%	99			75-125	Pass	
Zinc	M21-Ja13333	CP	%	99			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Chromium (hexavalent)	M21-Ja26806	NCP	%	89			70-130	Pass	
Cyanide (total)	M21-Ja22298	NCP	%	91			70-130	Pass	
Fluoride (Total)	M21-Ja23092	NCP	%	65			70-130	Fail	Q08
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M21-Ja10940	NCP	%	84			70-130	Pass	
1.1.1-Trichloroethane	M21-Ja10940	NCP	%	90			70-130	Pass	
1.2-Dichlorobenzene	M21-Ja10940	NCP	%	93			70-130	Pass	
1.2-Dichloroethane	M21-Ja10940	NCP	%	98			70-130	Pass	
Trichloroethene	M21-Ja10940	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M21-Ja21644	NCP	%	88			70-130	Pass	
4.4'-DDD	M21-Ja21644	NCP	%	83			70-130	Pass	
4.4'-DDE	M21-Ja21644	NCP	%	82			70-130	Pass	
4.4'-DDT	M21-Ja16354	NCP	%	89			70-130	Pass	
a-BHC	M21-Ja21644	NCP	%	94			70-130	Pass	
Aldrin	M21-Ja21644	NCP	%	81			70-130	Pass	
b-BHC	M21-Ja21644	NCP	%	108			70-130	Pass	
d-BHC	M21-Ja21644	NCP	%	82			70-130	Pass	
Dieldrin	M21-Ja21644	NCP	%	80			70-130	Pass	
Endosulfan I	M21-Ja21644	NCP	%	84			70-130	Pass	
Endosulfan II	M21-Ja21644	NCP	%	73			70-130	Pass	
Endosulfan sulphate	M21-Ja16354	NCP	%	77			70-130	Pass	
Endrin	M21-Ja21644	NCP	%	83			70-130	Pass	
Endrin aldehyde	M21-Ja21644	NCP	%	79			70-130	Pass	
Endrin ketone	M21-Ja21644	NCP	%	74			70-130	Pass	
g-BHC (Lindane)	M21-Ja21644	NCP	%	129			70-130	Pass	
Heptachlor	M21-Ja21644	NCP	%	81			70-130	Pass	
Heptachlor epoxide	M21-Ja21644	NCP	%	74			70-130	Pass	
Hexachlorobenzene	M21-Ja21644	NCP	%	93			70-130	Pass	
Methoxychlor	M21-Ja16354	NCP	%	116			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M21-Ja10956	NCP	%	87			70-130	Pass	
Aroclor-1260	M21-Ja10956	NCP	%	124			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	M21-Ja13335	CP	%	108			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M21-Ja13335	CP	%	89			70-130	Pass	
Toluene	M21-Ja13335	CP	%	96			70-130	Pass	
Ethylbenzene	M21-Ja13335	CP	%	106			70-130	Pass	
m&p-Xylenes	M21-Ja13335	CP	%	117			70-130	Pass	
o-Xylene	M21-Ja13335	CP	%	117			70-130	Pass	
Xylenes - Total*	M21-Ja13335	CP	%	117			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M21-Ja13335	CP	%	112			70-130	Pass	
TRH C6-C10	M21-Ja13335	CP	%	104			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	M21-Ja13341	CP	%	87			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	M21-Ja13341	CP	%	89			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M21-Ja13343	CP	%	84			75-125	Pass	
Cadmium	M21-Ja13343	CP	%	87			75-125	Pass	
Chromium	M21-Ja13343	CP	%	94			75-125	Pass	
Copper	M21-Ja13343	CP	%	88			75-125	Pass	
Lead	M21-Ja13343	CP	%	146			75-125	Fail	
Mercury	M21-Ja13343	CP	%	91			75-125	Pass	
Molybdenum	M21-Ja13343	CP	%	88			75-125	Pass	
Nickel	M21-Ja13343	CP	%	86			75-125	Pass	
Selenium	M21-Ja13343	CP	%	78			75-125	Pass	
Silver	M21-Ja13343	CP	%	87			75-125	Pass	
Tin	M21-Ja13343	CP	%	86			75-125	Pass	
Zinc	M21-Ja13343	CP	%	119			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	M21-Ja13351	CP	%	123			70-130	Pass	
TRH C10-C14	M21-Ja13351	CP	%	79			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M21-Ja13351	CP	%	128			70-130	Pass	
Toluene	M21-Ja13351	CP	%	126			70-130	Pass	
Ethylbenzene	M21-Ja13351	CP	%	127			70-130	Pass	
m&p-Xylenes	M21-Ja13351	CP	%	126			70-130	Pass	
o-Xylene	M21-Ja13351	CP	%	101			70-130	Pass	
Xylenes - Total*	M21-Ja13351	CP	%	118			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M21-Ja13351	CP	%	125			70-130	Pass	
TRH C6-C10	M21-Ja13351	CP	%	129			70-130	Pass	
TRH >C10-C16	M21-Ja13351	CP	%	79			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M21-Ja13354	CP	%	79			75-125	Pass	
Cadmium	M21-Ja13354	CP	%	82			75-125	Pass	
Chromium	M21-Ja13354	CP	%	66			75-125	Fail	
Copper	M21-Ja13354	CP	%	-34.8215323			75-125	Fail	
Lead	M21-Ja13354	CP	%	-539.5300235			75-125	Fail	
Mercury	M21-Ja13354	CP	%	51			75-125	Fail	
Molybdenum	M21-Ja13354	CP	%	95			75-125	Pass	
Nickel	M21-Ja13354	CP	%	45			75-125	Fail	
Selenium	M21-Ja13354	CP	%	91			75-125	Pass	
Silver	M21-Ja13354	CP	%	83			75-125	Pass	
Tin	M21-Ja13354	CP	%	29			75-125	Fail	
Zinc	M21-Ja13354	CP	%	-453.5090221			75-125	Fail	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	M21-Ja13361	CP	%	101			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	M21-Ja13361	CP	%	100			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M21-Ja13364	CP	%	73			75-125	Fail	
Cadmium	M21-Ja13364	CP	%	97			75-125	Pass	
Chromium	M21-Ja13364	CP	%	85			75-125	Pass	
Copper	M21-Ja13364	CP	%	97			75-125	Pass	
Lead	M21-Ja13364	CP	%	95			75-125	Pass	
Mercury	M21-Ja13364	CP	%	45			75-125	Fail	
Molybdenum	M21-Ja13364	CP	%	103			75-125	Pass	
Nickel	M21-Ja13364	CP	%	90			75-125	Pass	
Selenium	M21-Ja13364	CP	%	91			75-125	Pass	
Silver	M21-Ja13364	CP	%	99			75-125	Pass	
Tin	M21-Ja13364	CP	%	102			75-125	Pass	
Zinc	M21-Ja13364	CP	%	95			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	M21-Ja13372	CP	%	96			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M21-Ja13372	CP	%	94			70-130	Pass	
Toluene	M21-Ja13372	CP	%	94			70-130	Pass	
Ethylbenzene	M21-Ja13372	CP	%	100			70-130	Pass	
m&p-Xylenes	M21-Ja13372	CP	%	104			70-130	Pass	
o-Xylene	M21-Ja13372	CP	%	97			70-130	Pass	
Xylenes - Total*	M21-Ja13372	CP	%	101			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M21-Ja13372	CP	%	99			70-130	Pass	
TRH C6-C10	M21-Ja13372	CP	%	105			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M21-Ja13373	CP	%	112			70-130	Pass	
Acenaphthylene	M21-Ja13373	CP	%	118			70-130	Pass	
Anthracene	M21-Ja13373	CP	%	81			70-130	Pass	
Benz(a)anthracene	M21-Ja13373	CP	%	97			70-130	Pass	
Benzo(a)pyrene	M21-Ja13373	CP	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	M21-Ja13373	CP	%	88			70-130	Pass	
Benzo(g.h.i)perylene	M21-Ja13373	CP	%	84			70-130	Pass	
Benzo(k)fluoranthene	M21-Ja13373	CP	%	73			70-130	Pass	
Chrysene	M21-Ja13373	CP	%	97			70-130	Pass	
Dibenz(a.h)anthracene	M21-Ja13373	CP	%	108			70-130	Pass	
Fluoranthene	M21-Ja13373	CP	%	124			70-130	Pass	
Fluorene	M21-Ja13373	CP	%	103			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M21-Ja13373	CP	%	109			70-130	Pass	
Naphthalene	M21-Ja13373	CP	%	107			70-130	Pass	
Phenanthrene	M21-Ja13373	CP	%	93			70-130	Pass	
Pyrene	M21-Ja13373	CP	%	124			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Phenols (Halogenated)				Result 1					
2-Chlorophenol	M21-Ja13373	CP	%	103			30-130	Pass	
2.4-Dichlorophenol	M21-Ja13373	CP	%	92			30-130	Pass	
2.4.5-Trichlorophenol	M21-Ja13373	CP	%	88			30-130	Pass	
2.4.6-Trichlorophenol	M21-Ja13373	CP	%	71			30-130	Pass	
2.6-Dichlorophenol	M21-Ja13373	CP	%	83			30-130	Pass	
4-Chloro-3-methylphenol	M21-Ja13373	CP	%	93			30-130	Pass	
Pentachlorophenol	M21-Ja13373	CP	%	117			30-130	Pass	
Tetrachlorophenols - Total	M21-Ja13373	CP	%	87			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	M21-Ja13373	CP	%	106			30-130	Pass	
2-Methyl-4.6-dinitrophenol	M21-Ja13373	CP	%	84			30-130	Pass	
2-Methylphenol (o-Cresol)	M21-Ja13373	CP	%	105			30-130	Pass	
2-Nitrophenol	M21-Ja13373	CP	%	110			30-130	Pass	
2.4-Dimethylphenol	M21-Ja13373	CP	%	92			30-130	Pass	
2.4-Dinitrophenol	M21-Ja13373	CP	%	117			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M21-Ja13373	CP	%	115			30-130	Pass	
4-Nitrophenol	M21-Ja13373	CP	%	58			30-130	Pass	
Dinoseb	M21-Ja13373	CP	%	74			30-130	Pass	
Phenol	M21-Ja13373	CP	%	103			30-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M21-Ja13374	CP	%	97			75-125	Pass	
Cadmium	M21-Ja13374	CP	%	98			75-125	Pass	
Chromium	M21-Ja13374	CP	%	105			75-125	Pass	
Copper	M21-Ja13374	CP	%	95			75-125	Pass	
Lead	M21-Ja13374	CP	%	120			75-125	Pass	
Mercury	M21-Ja13374	CP	%	106			75-125	Pass	
Molybdenum	M21-Ja13374	CP	%	106			75-125	Pass	
Nickel	M21-Ja13374	CP	%	86			75-125	Pass	
Selenium	M21-Ja13374	CP	%	94			75-125	Pass	
Silver	M21-Ja13374	CP	%	102			75-125	Pass	
Tin	M21-Ja13374	CP	%	106			75-125	Pass	
Zinc	M21-Ja13374	CP	%	23			75-125	Fail	Q08
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M21-Ja13677	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M21-Ja13677	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M21-Ja13677	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M21-Ja13677	NCP	mg/kg	1.2	1.1	8.0	30%	Pass	
Benzo(a)pyrene	M21-Ja13677	NCP	mg/kg	1.2	1.2	7.0	30%	Pass	
Benzo(b&j)fluoranthene	M21-Ja13677	NCP	mg/kg	1.1	1.0	6.0	30%	Pass	
Benzo(g.h.i)perylene	M21-Ja13677	NCP	mg/kg	0.9	0.6	46	30%	Fail	Q15
Benzo(k)fluoranthene	M21-Ja13677	NCP	mg/kg	0.6	0.9	37	30%	Fail	Q15
Chrysene	M21-Ja13677	NCP	mg/kg	0.8	1.0	16	30%	Pass	
Dibenz(a.h)anthracene	M21-Ja13677	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M21-Ja13677	NCP	mg/kg	1.6	1.6	<1	30%	Pass	
Fluorene	M21-Ja13677	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M21-Ja13677	NCP	mg/kg	0.9	0.8	3.0	30%	Pass	
Naphthalene	M21-Ja13677	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M21-Ja13677	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M21-Ja13677	NCP	mg/kg	1.8	1.8	3.0	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Ja13332	CP	mg/kg	4.8	7.4	41	30%	Fail	Q15
Cadmium	M21-Ja13332	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-Ja13332	CP	mg/kg	34	39	15	30%	Pass	
Copper	M21-Ja13332	CP	mg/kg	26	29	11	30%	Pass	
Lead	M21-Ja13332	CP	mg/kg	23	36	43	30%	Fail	
Mercury	M21-Ja13332	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M21-Ja13332	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-Ja13332	CP	mg/kg	80	82	3.0	30%	Pass	
Selenium	M21-Ja13332	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M21-Ja13332	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M21-Ja13332	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M21-Ja13332	CP	mg/kg	70	100	40	30%	Fail	Q15
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Ja13333	CP	mg/kg	12	12	<1	30%	Pass	
Cadmium	M21-Ja13333	CP	mg/kg	0.4	0.4	2.0	30%	Pass	
Chromium	M21-Ja13333	CP	mg/kg	23	23	<1	30%	Pass	
Copper	M21-Ja13333	CP	mg/kg	40	39	2.0	30%	Pass	
Lead	M21-Ja13333	CP	mg/kg	220	220	2.0	30%	Pass	
Mercury	M21-Ja13333	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Molybdenum	M21-Ja13333	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-Ja13333	CP	mg/kg	24	24	2.0	30%	Pass	
Selenium	M21-Ja13333	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M21-Ja13333	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M21-Ja13333	CP	mg/kg	12	12	1.0	30%	Pass	
Zinc	M21-Ja13333	CP	mg/kg	270	260	1.0	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M21-Ja09685	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M21-Ja09685	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M21-Ja09685	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M21-Ja09685	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M21-Ja09685	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M21-Ja09685	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1248	M21-Ja09685	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M21-Ja09685	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M21-Ja09685	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M21-Ja09685	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	M21-Ja09685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	M21-Ja09685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	M21-Ja09685	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	M21-Ja09685	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	M21-Ja09685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	M21-Ja09685	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	M21-Ja09685	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	M21-Ja09685	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	M21-Ja09685	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	M21-Ja09685	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M21-Ja09685	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
2-Nitrophenol	M21-Ja09685	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	M21-Ja09685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	M21-Ja09685	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M21-Ja09685	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	M21-Ja09685	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	M21-Ja09685	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	M21-Ja09685	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M21-Ja13334	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M21-Ja13334	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M21-Ja13334	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M21-Ja13334	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M21-Ja13334	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M21-Ja13334	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M21-Ja13334	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M21-Ja13334	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M21-Ja13334	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M21-Ja13335	CP	%	7.9	7.0	12	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chloride	M21-Ja08547	NCP	mg/kg	2300	2200	2.0	30%	Pass	
Sulphate (as SO4)	B21-Ja08928	NCP	mg/kg	2900	2900	1.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M21-Ja13340	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M21-Ja13340	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M21-Ja13340	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M21-Ja13340	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M21-Ja13340	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M21-Ja13340	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M21-Ja13340	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M21-Ja13340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M21-Ja13340	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Ja13342	CP	mg/kg	6.0	5.1	16	30%	Pass	
Cadmium	M21-Ja13342	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-Ja13342	CP	mg/kg	8.8	7.5	15	30%	Pass	
Copper	M21-Ja13342	CP	mg/kg	8.2	7.1	15	30%	Pass	
Lead	M21-Ja13342	CP	mg/kg	62	55	12	30%	Pass	
Mercury	M21-Ja13342	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M21-Ja13342	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-Ja13342	CP	mg/kg	7.7	6.8	13	30%	Pass	
Selenium	M21-Ja13342	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M21-Ja13342	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M21-Ja13342	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M21-Ja13342	CP	mg/kg	70	58	18	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Fluoride (Total)	M21-Ja13342	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Toxaphene	M21-Ja26805	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Ja13343	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	M21-Ja13343	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-Ja13343	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M21-Ja13343	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M21-Ja13343	CP	mg/kg	31	31	<1	30%	Pass	
Mercury	M21-Ja13343	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M21-Ja13343	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-Ja13343	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M21-Ja13343	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M21-Ja13343	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M21-Ja13343	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M21-Ja13343	CP	mg/kg	46	47	1.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M21-Ja13345	CP	%	1.4	2.0	34	30%	Fail	
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M21-Ja13348	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	M21-Ja13348	CP	uS/cm	98	99	1.1	30%	Pass	
Cyanide (total)	M21-Ja13348	CP	mg/kg	< 5	< 5	<1	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	M21-Ja13348	CP	pH Units	7.5	7.5	pass	30%	Pass	
Resistivity*	M21-Ja13348	CP	ohm.m	100	100	1.1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M21-Ja13350	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M21-Ja13350	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M21-Ja13350	CP	mg/kg	120	280	76	30%	Fail	Q15
TRH C29-C36	M21-Ja13350	CP	mg/kg	120	260	75	30%	Fail	Q15
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M21-Ja13350	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M21-Ja13350	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M21-Ja13350	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M21-Ja13350	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M21-Ja13350	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M21-Ja13350	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M21-Ja13350	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M21-Ja13350	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M21-Ja13350	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M21-Ja13350	CP	mg/kg	210	470	76	30%	Fail	Q15
TRH >C34-C40	M21-Ja13350	CP	mg/kg	< 100	160	75	30%	Fail	Q15
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Ja13352	CP	mg/kg	23	19	21	30%	Pass	
Cadmium	M21-Ja13352	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-Ja13352	CP	mg/kg	18	15	16	30%	Pass	
Copper	M21-Ja13352	CP	mg/kg	29	26	11	30%	Pass	
Lead	M21-Ja13352	CP	mg/kg	160	160	5.0	30%	Pass	
Mercury	M21-Ja13352	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Molybdenum	M21-Ja13352	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-Ja13352	CP	mg/kg	47	40	16	30%	Pass	
Selenium	M21-Ja13352	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M21-Ja13352	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M21-Ja13352	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M21-Ja13352	CP	mg/kg	240	190	22	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Ja13354	CP	mg/kg	15	15	<1	30%	Pass	
Cadmium	M21-Ja13354	CP	mg/kg	0.7	0.7	1.0	30%	Pass	
Chromium	M21-Ja13354	CP	mg/kg	33	32	1.0	30%	Pass	
Copper	M21-Ja13354	CP	mg/kg	91	90	<1	30%	Pass	
Lead	M21-Ja13354	CP	mg/kg	440	440	1.0	30%	Pass	
Mercury	M21-Ja13354	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Molybdenum	M21-Ja13354	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-Ja13354	CP	mg/kg	38	38	1.0	30%	Pass	
Selenium	M21-Ja13354	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M21-Ja13354	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M21-Ja13354	CP	mg/kg	42	41	1.0	30%	Pass	
Zinc	M21-Ja13354	CP	mg/kg	420	410	1.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M21-Ja13355	CP	%	11	11	7.0	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M21-Ja13360	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M21-Ja13360	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M21-Ja13360	CP	mg/kg	510	540	6.0	30%	Pass	
TRH C29-C36	M21-Ja13360	CP	mg/kg	540	550	2.0	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M21-Ja13360	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M21-Ja13360	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M21-Ja13360	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M21-Ja13360	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M21-Ja13360	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M21-Ja13360	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M21-Ja13360	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M21-Ja13360	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M21-Ja13360	CP	mg/kg	870	920	5.0	30%	Pass	
TRH >C34-C40	M21-Ja13360	CP	mg/kg	210	220	3.0	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Hexachlorobutadiene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Chloroethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M21-Ja13360	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Ja13363	CP	mg/kg	9.3	14	37	30%	Fail	Q15
Cadmium	M21-Ja13363	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-Ja13363	CP	mg/kg	15	24	46	30%	Fail	Q15
Copper	M21-Ja13363	CP	mg/kg	9.1	8.5	6.0	30%	Pass	
Lead	M21-Ja13363	CP	mg/kg	36	35	3.0	30%	Pass	
Mercury	M21-Ja13363	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M21-Ja13363	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-Ja13363	CP	mg/kg	7.7	9.3	18	30%	Pass	
Selenium	M21-Ja13363	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M21-Ja13363	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M21-Ja13363	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M21-Ja13363	CP	mg/kg	53	50	6.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Ja13364	CP	mg/kg	57	55	3.0	30%	Pass	
Cadmium	M21-Ja13364	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-Ja13364	CP	mg/kg	76	74	3.0	30%	Pass	
Copper	M21-Ja13364	CP	mg/kg	13	13	3.0	30%	Pass	
Lead	M21-Ja13364	CP	mg/kg	48	47	2.0	30%	Pass	
Mercury	M21-Ja13364	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M21-Ja13364	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-Ja13364	CP	mg/kg	27	27	2.0	30%	Pass	
Selenium	M21-Ja13364	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M21-Ja13364	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M21-Ja13364	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M21-Ja13364	CP	mg/kg	60	59	2.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M21-Ja13366	CP	%	7.5	7.1	5.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M21-Ja13367	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M21-Ja13367	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M21-Ja13367	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M21-Ja13367	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M21-Ja13367	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M21-Ja13367	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M21-Ja13367	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M21-Ja13367	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M21-Ja13367	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Ja13373	CP	mg/kg	5.8	6.3	9.0	30%	Pass	
Cadmium	M21-Ja13373	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-Ja13373	CP	mg/kg	9.2	9.6	4.0	30%	Pass	
Copper	M21-Ja13373	CP	mg/kg	20	26	27	30%	Pass	
Lead	M21-Ja13373	CP	mg/kg	220	230	1.0	30%	Pass	
Mercury	M21-Ja13373	CP	mg/kg	0.1	0.1	6.0	30%	Pass	
Molybdenum	M21-Ja13373	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-Ja13373	CP	mg/kg	12	12	5.0	30%	Pass	
Selenium	M21-Ja13373	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M21-Ja13373	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M21-Ja13373	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M21-Ja13373	CP	mg/kg	140	140	5.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Ja13374	CP	mg/kg	9.0	8.7	4.0	30%	Pass	
Cadmium	M21-Ja13374	CP	mg/kg	0.4	0.4	4.0	30%	Pass	
Chromium	M21-Ja13374	CP	mg/kg	21	20	6.0	30%	Pass	
Copper	M21-Ja13374	CP	mg/kg	47	45	4.0	30%	Pass	
Lead	M21-Ja13374	CP	mg/kg	400	390	4.0	30%	Pass	
Mercury	M21-Ja13374	CP	mg/kg	0.2	0.2	1.0	30%	Pass	
Molybdenum	M21-Ja13374	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-Ja13374	CP	mg/kg	36	34	4.0	30%	Pass	
Selenium	M21-Ja13374	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M21-Ja13374	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M21-Ja13374	CP	mg/kg	13	13	5.0	30%	Pass	
Zinc	M21-Ja13374	CP	mg/kg	350	330	5.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25°C as rec.)	M21-Ja13375	CP	pH Units	7.9	7.7	pass	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M21-Ja13376	CP	%	8.9	9.2	3.0	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	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
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
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

Harry Bacalis	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Scott Beddoes	Senior Analyst-Inorganic (VIC)
Sophie Bush	Senior Analyst-Asbestos (VIC)
Vivian Wang	Senior Analyst-Volatile (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.

senversa

Chain of Custody Documentation

Senversa Pty Ltd
www.senversa.com.au
ABN 89 132 231 380

Laboratory: mgt/Eurofins VIC
Address: 6 Monterey Road, Dandenong South, VIC 3175
Contact: Harry Bacalis/Sample Log In
Phone: 03 9564 7055

Job Number:	M18310	**Purchase Order:**	
Project Name:	Elwood DSI	**Quote No:**	
Sampled By:	Molly Hoak	**Turn Around Time:**	3 day TAT
Project Manager:	Katie Richardson	**Page:**	1 of 1
Email Report To:	molly.hoak@senversa.com.au katie.richardson@senversa.com.au	**Phone/Mobile:**	Molly:0438 255 132 Katie: 0403993727

Sample Information					Container Information		Analysis Required											
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	B7:TRH, BTEXN, PAH, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)										HOLD	Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
	SB19_0.1-0.2	SOIL	2/02/2021		Jar	1	X											
	SB19_0.35-0.45	SOIL	2/02/2021		Jar	1	X											
	SB20_0.1-0.2	SOIL	2/02/2021		Jar	1	X											
	SB20_0.5-0.6	SOIL	2/02/2021		Jar	1	X											
	QC09	SOIL	2/02/2021		Jar	1											X	
	QC10	SOIL	2/02/2021		Jar	1											X	
Total						6	6	10	2	1								

0
4.3
-0.3
4.0
Counter

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:

Sampler Name: Molly Hoak **Signature:** **Date:** 2/02/2021

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature:	Date: 2/2/21	Carrier / Reference #:	Name/Signature: CAMH to Eurofins	Date: 2/2/21
Of:	Time: 5:30pm	Date/Time:	Of:	Time: 4.40pm
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preservéd Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

7710 75 BL

Completed by: _____
Checked by: _____

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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

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Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	Senversa Pty Ltd VIC
Contact name:	Katie Richardson
Project name:	ELWOOD DSI
Project ID:	M18310
Turnaround time:	3 Day
Date/Time received	Feb 2, 2021 4:40 PM
Eurofins reference	771075

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 4 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Harry Bacalis on phone : or by email: HarryBacalis@eurofins.com

Results will be delivered electronically via email to Katie Richardson - katie.richardson@senversa.com.au.

Note: A copy of these results will also be delivered to the general Senversa Pty Ltd VIC email address.

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

Project Name: ELWOOD DSI
Project ID: M18310

Order No.:
Report #: 771075
Phone: 9606 0070
Fax:

Received: Feb 2, 2021 4:40 PM
Due: Feb 5, 2021
Priority: 3 Day
Contact Name: Katie Richardson

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						HOLD	Moisture Set	Eurofins Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	SB19_0.1-0.2	Feb 02, 2021		Soil	M21-Fe03508		X	X
2	SB19_0.35-0.45	Feb 02, 2021		Soil	M21-Fe03509		X	X
3	SB20_0.1-0.2	Feb 02, 2021		Soil	M21-Fe03510		X	X
4	SB20_0.5-0.6	Feb 02, 2021		Soil	M21-Fe03511		X	X
5	QC09	Feb 02, 2021		Soil	M21-Fe03512	X		
6	QC10	Feb 02, 2021		Soil	M21-Fe03513	X		
Test Counts						2	4	4

Senversa Pty Ltd VIC
Level 6, 15 William St
Melbourne
VIC 3000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Katie Richardson**

Report **771075-S**
Project name ELWOOD DSI
Project ID M18310
Received Date Feb 02, 2021

Client Sample ID			**SB19_0.1-0.2**	**SB19_0.35-0.45**	**SB20_0.1-0.2**	**SB20_0.5-0.6**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M21-Fe03508**	**M21-Fe03509**	**M21-Fe03510**	**M21-Fe03511**
Date Sampled			**Feb 02, 2021**	**Feb 02, 2021**	**Feb 02, 2021**	**Feb 02, 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	%	148	96	82	52
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	650	< 100	310
TRH >C34-C40	100	mg/kg	< 100	120	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	770	< 100	310
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	420	< 50	200
TRH C29-C36	50	mg/kg	< 50	290	< 50	150
TRH C10-C36 (Total)	50	mg/kg	< 50	710	< 50	350
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	21	< 0.5	12
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	21	0.6	12
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	21	1.2	12
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	0.7	< 0.5	0.7
Anthracene	0.5	mg/kg	< 0.5	2.5	< 0.5	0.6
Benz(a)anthracene	0.5	mg/kg	< 0.5	13	< 0.5	7.9
Benzo(a)pyrene	0.5	mg/kg	< 0.5	13	< 0.5	7.8
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	14	< 0.5	7.2
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	7.3	< 0.5	4.1

Client Sample ID			SB19_0.1-0.2	SB19_0.35-0.45	SB20_0.1-0.2	SB20_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Fe03508	M21-Fe03509	M21-Fe03510	M21-Fe03511
Date Sampled			Feb 02, 2021	Feb 02, 2021	Feb 02, 2021	Feb 02, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	13	< 0.5	7.1
Chrysene	0.5	mg/kg	< 0.5	10	< 0.5	6.2
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	3.1	< 0.5	1.4
Fluoranthene	0.5	mg/kg	< 0.5	20	< 0.5	10
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	8.2	< 0.5	3.4
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	10	< 0.5	3.4
Pyrene	0.5	mg/kg	< 0.5	20	< 0.5	11
Total PAH*	0.5	mg/kg	< 0.5	134.8	< 0.5	70.8
2-Fluorobiphenyl (surr.)	1	%	66	67	72	74
p-Terphenyl-d14 (surr.)	1	%	65	73	86	70
Heavy Metals						
Arsenic	2	mg/kg	< 2	19	< 2	6.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	40	< 5	20
Copper	5	mg/kg	< 5	20	< 5	20
Lead	5	mg/kg	< 5	79	< 5	98
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	21	< 5	16
Zinc	5	mg/kg	< 5	85	< 5	91
% Moisture	1	%	9.6	12	8.7	12

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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 B7			
BTEX	Melbourne	Feb 02, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 02, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 02, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Melbourne	Feb 02, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Feb 02, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Melbourne	Feb 02, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Melbourne	Feb 02, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Melbourne	Feb 02, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			

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Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

Project Name: ELWOOD DSI
Project ID: M18310

Order No.:
Report #: 771075
Phone: 9606 0070
Fax:

Received: Feb 2, 2021 4:40 PM
Due: Feb 5, 2021
Priority: 3 Day
Contact Name: Katie Richardson

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						HOLD	Moisture Set	Eurofins Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	SB19_0.1-0.2	Feb 02, 2021		Soil	M21-Fe03508		X	X
2	SB19_0.35-0.45	Feb 02, 2021		Soil	M21-Fe03509		X	X
3	SB20_0.1-0.2	Feb 02, 2021		Soil	M21-Fe03510		X	X
4	SB20_0.5-0.6	Feb 02, 2021		Soil	M21-Fe03511		X	X
5	QC09	Feb 02, 2021		Soil	M21-Fe03512	X		
6	QC10	Feb 02, 2021		Soil	M21-Fe03513	X		
Test Counts						2	4	4

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.

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

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 5.3
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

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

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 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate 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							
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							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
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							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	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	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	89			70-130	Pass	
Ethylbenzene	%	87			70-130	Pass	
m&p-Xylenes	%	96			70-130	Pass	
Xylenes - Total*	%	93			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	87			70-130	Pass	
TRH C6-C10	%	98			70-130	Pass	
TRH >C10-C16	%	105			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	103			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	%	100			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	93			70-130	Pass	
Acenaphthylene	%	81			70-130	Pass	
Anthracene	%	80			70-130	Pass	
Benz(a)anthracene	%	105			70-130	Pass	
Benzo(a)pyrene	%	78			70-130	Pass	
Benzo(b&j)fluoranthene	%	103			70-130	Pass	
Benzo(g.h.i)perylene	%	95			70-130	Pass	
Benzo(k)fluoranthene	%	96			70-130	Pass	
Chrysene	%	112			70-130	Pass	
Dibenz(a.h)anthracene	%	101			70-130	Pass	
Fluoranthene	%	103			70-130	Pass	
Fluorene	%	91			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	101			70-130	Pass	
Naphthalene	%	103			70-130	Pass	
Phenanthrene	%	101			70-130	Pass	
Pyrene	%	105			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	111			80-120	Pass	
Cadmium	%	107			80-120	Pass	
Chromium	%	117			80-120	Pass	
Copper	%	112			80-120	Pass	
Lead	%	117			80-120	Pass	
Mercury	%	109			80-120	Pass	
Nickel	%	108			80-120	Pass	
Zinc	%	107			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	M21-Fe04369	NCP	%	91			70-130	Pass	
Toluene	M21-Fe04369	NCP	%	109			70-130	Pass	
Ethylbenzene	M21-Fe04369	NCP	%	98			70-130	Pass	
m&p-Xylenes	M21-Fe04369	NCP	%	109			70-130	Pass	
o-Xylene	M21-Fe04369	NCP	%	100			70-130	Pass	
Xylenes - Total*	M21-Fe04369	NCP	%	106			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M21-Fe04369	NCP	%	115			70-130	Pass	
TRH C6-C10	M21-Fe04369	NCP	%	103			70-130	Pass	
TRH >C10-C16	M21-Fe03421	NCP	%	91			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M21-Fe04369	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	M21-Fe03421	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M21-Ja32210	NCP	%	86			70-130	Pass	
Acenaphthylene	M21-Ja32210	NCP	%	77			70-130	Pass	
Anthracene	M21-Ja32210	NCP	%	102			70-130	Pass	
Benz(a)anthracene	M21-Ja32210	NCP	%	75			70-130	Pass	
Benzo(a)pyrene	M21-Ja32210	NCP	%	80			70-130	Pass	
Benzo(b&j)fluoranthene	M21-Ja32210	NCP	%	88			70-130	Pass	
Benzo(g.h.i)perylene	M21-Ja32210	NCP	%	73			70-130	Pass	
Benzo(k)fluoranthene	M21-Ja32210	NCP	%	117			70-130	Pass	
Chrysene	M21-Ja32210	NCP	%	114			70-130	Pass	
Dibenz(a.h)anthracene	M21-Ja32210	NCP	%	94			70-130	Pass	
Fluoranthene	M21-Ja32210	NCP	%	110			70-130	Pass	
Fluorene	M21-Ja32210	NCP	%	82			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M21-Ja32210	NCP	%	87			70-130	Pass	
Naphthalene	M21-Ja32210	NCP	%	96			70-130	Pass	
Phenanthrene	M21-Ja32210	NCP	%	87			70-130	Pass	
Pyrene	M21-Ja32210	NCP	%	114			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M21-Fe02735	NCP	%	95			75-125	Pass	
Cadmium	M21-Fe02735	NCP	%	104			75-125	Pass	
Chromium	M21-Fe02735	NCP	%	95			75-125	Pass	
Copper	M21-Fe02735	NCP	%	104			75-125	Pass	
Lead	M21-Fe02735	NCP	%	103			75-125	Pass	
Mercury	M21-Fe02735	NCP	%	98			75-125	Pass	
Nickel	M21-Fe02735	NCP	%	113			75-125	Pass	
Zinc	M21-Fe02735	NCP	%	102			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	B21-Ja36926	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	B21-Ja36926	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	B21-Ja36926	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	B21-Ja36926	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	B21-Ja36926	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	B21-Ja36926	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	B21-Ja36926	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	B21-Ja36926	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M21-Fe00994	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M21-Fe00994	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M21-Fe00994	NCP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	B21-Ja36926	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	M21-Fe00994	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M21-Fe00994	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M21-Fe00994	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M21-Fe03433	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Fe02735	NCP	mg/kg	5.0	5.0	1.0	30%	Pass	
Cadmium	M21-Fe02735	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-Fe02735	NCP	mg/kg	99	99	<1	30%	Pass	
Copper	M21-Fe02735	NCP	mg/kg	28	28	<1	30%	Pass	
Lead	M21-Fe02735	NCP	mg/kg	15	15	<1	30%	Pass	
Mercury	M21-Fe02735	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M21-Fe02735	NCP	mg/kg	87	87	<1	30%	Pass	
Zinc	M21-Fe02735	NCP	mg/kg	55	55	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M21-Fe03511	CP	%	12	13	10	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

Authorised By

Harry Bacalis	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Vivian Wang	Senior Analyst-Volatile (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.

#AU_CAU001_EnviroSampleVic

From: Harry Bacalis
Sent: Thursday, 11 February 2021 8:05 PM
To: Richard Griffin
Cc: Isaac Graves; Molly Hoak; Katie Richardson; #AU_CAU001_EnviroSampleVic
Subject: RE: Hold samples on 762416 and 767787

Not a problem Richard

Canh – STD TAT

Kind regards,

Harry Bacalis
Phone: +61 3 8564 5064
Mobile: +61 438 858 924
Email : HarryBacalis@eurofins.com

From: Richard Griffin <Richard.Griffin@senversa.com.au>
Sent: Thursday, 11 February 2021 6:09 PM
To: Harry Bacalis <HarryBacalis@eurofins.com>
Cc: Isaac Graves <Isaac.Graves@senversa.com.au>; Molly Hoak <Molly.Hoak@senversa.com.au>; Katie Richardson <Katie.Richardson@senversa.com.au>
Subject: FW: Hold samples on 762416 and 767787

EXTERNAL EMAIL*

Harry,

Can we please request the following additional analysis, associated with the existing sample batches below. STD turnaround. Please send results to me and Isaac copied to this email.

Analysis	762416	767787
CrVI (ASLP – pH 5)		SB15_0.1-0.2
IWRG Metals (ex CrVI) – (ASLP – pH 5)	SB01_0.45 SB02_0.4 SB05_0.5	QC04 → ALS split. SB18_0.4-0.5 SB22_0.1-0.2 SB23_0.35-0.45 SB28_0.6-0.7 SB34_0.4-0.5 SB36_0.4-0.5
Benzo(a)pyrene – (ASLP – pH 5)	SB01_0.45 SB02_0.4 SB03_0.4 SB04_0.1 SB05_0.5 SB06_0.48	SB07_0.1-0.2 SB08_0.1-0.2 SB10_0.7-0.8 SB14_0.1-0.2 QC04 → ALS split SB23_0.35-0.45 SB27_0.3-0.4 SB28_0.6-0.7 SB29_0.05-0.15 SB34_0.4-0.5 SB35_0.1-0.2

773807 BL

		SB36_0.1-0.2 SB37_0.5-0.6 SB38_0.1-0.2
Benzo(a)pyrene – (ASLP – pH 9)	SB01_0.45 SB02_0.4 SB03_0.4 SB04_0.1 SB05_0.5 SB06_0.48	SB07_0.1-0.2 SB08_0.1-0.2 SB10_0.7-0.8 SB14_0.1-0.2 QC04 – ALS split SB23_0.35-0.45 SB27_0.3-0.4 SB28_0.6-0.7 SB29_0.05-0.15 SB34_0.4-0.5 SB35_0.1-0.2 SB36_0.1-0.2 SB37_0.5-0.6 SB38_0.1-0.2
IWRG621 Metals & PAHs		SB13_0.8-0.9 SB14_0.8-0.9 SB24_0.9-1.0

Thanks in advance

Richard Griffin
Principal Environmental Consultant
Certified Environmental Practitioner – Site Contamination Specialist (CEnvP SC)
M: **+61 432 579 833**
T: **+61 3 9606 0070**
E: richard.griffin@senversa.com.au

Level 6, 15 William Street
Melbourne VIC 6000
www.senversa.com.au

773807BL

#AU_CAU001_EnviroSampleVic

From: Isaac Graves <Isaac.Graves@senversa.com.au>
Sent: Friday, 12 February 2021 1:06 PM
To: #AU_CAU001_EnviroSampleVic; Harry Bacalis; Richard Griffin
Cc: Molly Hoak; Katie Richardson
Subject: RE: Hold samples on 762416 and 767787

Hi Canh,

Thanks for checking – please schedule QC03 for the requested analysis.

Regards,

Ja13377-GT902-FF203

senversa | Isaac Graves
Senior Environmental Geologist
M: +61 447 064 600

From: EnviroSampleVic@eurofins.com <EnviroSampleVic@eurofins.com>
Sent: Friday, 12 February 2021 12:17 PM
To: Harry Bacalis <HarryBacalis@eurofins.com>; Richard Griffin <Richard.Griffin@senversa.com.au>
Cc: Isaac Graves <Isaac.Graves@senversa.com.au>; Molly Hoak <Molly.Hoak@senversa.com.au>; Katie Richardson <Katie.Richardson@senversa.com.au>
Subject: RE: Hold samples on 762416 and 767787

Hi Richard,

I just wanted to confirm on sample ID.

You have listed QC04 for additional testing but QC04 was split to ALS as per the original COC.

Did you mean QC03, which was kept at Eurofins?

Thanks,
Canh

Sample Receipt

Eurofins Environment Testing
6 Monterey Rd
Dandenong South 3175
AUSTRALIA
Phone : +61 3 8564 5000

Email : EnviroSampleVic@eurofins.com
Website : http://environment.eurofins.com.au

From: Harry Bacalis <HarryBacalis@eurofins.com>
Sent: Thursday, 11 February 2021 8:05 PM
To: Richard Griffin <Richard.Griffin@senversa.com.au>
Cc: Isaac Graves <Isaac.Graves@senversa.com.au>; Molly Hoak <Molly.Hoak@senversa.com.au>; Katie Richardson

773807 VBL

eurofins | Environment Testing

ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

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Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
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Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

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4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	Senversa Pty Ltd VIC
Contact name:	Richard Griffin
Project name:	ELWOOD ADDITIONALS
Project ID:	M18310
Turnaround time:	5 Day
Date/Time received	Feb 11, 2021 8:05 PM
Eurofins reference	773807

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Harry Bacalis on phone : or by email: HarryBacalis@eurofins.com

Results will be delivered electronically via email to Richard Griffin - richard.griffin@senversa.com.au.

Note: A copy of these results will also be delivered to the general Senversa Pty Ltd VIC email address.

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
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NATA # 1261 Site # 20794

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Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

Project Name: ELWOOD ADDITIONALS
Project ID: M18310

Order No.:
Report #: 773807
Phone: 9606 0070
Fax:

Received: Feb 11, 2021 8:05 PM
Due: Feb 19, 2021
Priority: 5 Day
Contact Name: Richard Griffin

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Benzo(a)pyrene	Chromium (hexavalent)	Polycyclic Aromatic Hydrocarbons	AUS Leaching Procedure	Metals IWRG 621 : Metals M12	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	SB01_0.45	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26728	X			X	X	
2	SB02_0.4	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26729	X			X	X	
3	SB03_0.4	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26730	X			X		
4	SB04_0.1	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26731	X			X		
5	SB05_0.5	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26732	X			X		
6	SB06_0.48	Feb 08, 2021		AUS Leachate	M21-Fe26733	X			X		

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
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NATA # 1261
Site # 23736

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Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
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Project Name: ELWOOD ADDITIONALS
Project ID: M18310

Order No.:
Report #: 773807
Phone: 9606 0070
Fax:

Received: Feb 11, 2021 8:05 PM
Due: Feb 19, 2021
Priority: 5 Day
Contact Name: Richard Griffin

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Benzo(a)pyrene	Chromium (hexavalent)	Polycyclic Aromatic Hydrocarbons	AUS Leaching Procedure	Metals IWRG 621 : Metals M12	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
				- pH 5.0							
7	SB07_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26734	X			X		
8	SB08_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26735	X			X		
9	SB10_0.7_0.8	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26736	X			X		
10	SB13_0.8_0.9	Feb 12, 2021		Soil	M21-Fe26737			X		X	X
11	SB15_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26738		X		X		
12	SB14_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26739	X			X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
13	SB18_0.4_0.5	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26740				X	X	
14	SB22_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26741				X	X	
15	SB23_0.35_0.45	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26742	X			X	X	
16	SB24_0.9_1.0	Feb 12, 2021		Soil	M21-Fe26743			X		X	X
17	SB27_0.3_0.4	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26744	X			X		
18	SB28_0.6_0.7	Feb 13, 2021		AUS Leachate - pH 5.0	M21-Fe26745	X			X	X	
19	SB29_0.05_0.15	Feb 13, 2021		AUS Leachate - pH 5.0	M21-Fe26746	X			X		

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Sample Detail						Benzo(a)pyrene	Chromium (hexavalent)	Polycyclic Aromatic Hydrocarbons	AUS Leaching Procedure	Metals IWRG 621 : Metals M12	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
20	SB34_0.4_0.5	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26747	X			X	X	
21	SB35_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26748	X			X		
22	SB01_0.45	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26749	X			X		
23	SB02_0.4	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26750	X			X		
24	SB03_0.4	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26751	X			X		
25	SB04_0.1	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26752	X			X		
26	SB05_0.5	Feb 08, 2021		AUS Leachate	M21-Fe26753	X			X		

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Sample Detail						Benzo(a)pyrene	Chromium (hexavalent)	Polycyclic Aromatic Hydrocarbons	AUS Leaching Procedure	Metals IWRG 621 : Metals M12	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
26	SB05_0.5	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26753						
27	SB06_0.48	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26754	X			X		
28	SB07_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26755	X			X		
29	SB08_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26756	X			X		
30	SB10_0.7_0.8	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26757	X			X		
31	SB14_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26758	X			X		
32	SB23_0.35_0.	Feb 12, 2021		AUS Leachate	M21-Fe26759	X			X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
	45			- pH 9.2							
33	SB27_0.3_0.4	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26760	X			X		
34	SB28_0.6_0.7	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26761	X			X		
35	SB29_0.05_0.15	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26762	X			X		
36	SB34_0.4_0.5	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26763	X			X		
37	SB35_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26764	X			X		
38	SB36_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26765	X			X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
39	SB37_0.5_0.6	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26766	X			X		
40	SB38_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26767	X			X		
41	QC03	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26960	X			X	X	
42	SB36_0.4-0.5	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26961				X	X	
43	SB36_0.1-0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26962	X			X		
44	SB37_0.5-0.6	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26963	X			X		
45	SB38_0.1-0.2	Feb 12, 2021		AUS Leachate	M21-Fe26964	X			X		

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Sample Detail						Benzo(a)pyrene	Chromium (hexavalent)	Polycyclic Aromatic Hydrocarbons	AUS Leaching Procedure	Metals IWRG 621 : Metals M12	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
				- pH 5.0							
46	SB14_0.8-0.9	Feb 12, 2021		Soil	M21-Fe26965			X		X	X
47	QC03	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe27926	X			X		
Test Counts						40	1	3	44	12	3

Senversa Pty Ltd VIC
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NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Richard Griffin**

Report **773807-L**
Project name ELWOOD ADDITIONALS
Project ID M18310
Received Date Feb 11, 2021

Client Sample ID			**SB01_0.45**	**SB02_0.4**	**SB03_0.4**	**SB04_0.1**
Sample Matrix			**AUS Leachate - pH 5.0**	**AUS Leachate - pH 5.0**	**AUS Leachate - pH 5.0**	**AUS Leachate - pH 5.0**
Eurofins Sample No.			**M21-Fe26728**	**M21-Fe26729**	**M21-Fe26730**	**M21-Fe26731**
Date Sampled			**Feb 08, 2021**	**Feb 08, 2021**	**Feb 08, 2021**	**Feb 08, 2021**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.01	-	-
Cadmium	0.01	mg/L	< 0.01	< 0.01	-	-
Chromium	0.01	mg/L	< 0.01	< 0.01	-	-
Copper	0.01	mg/L	0.02	0.01	-	-
Lead	0.01	mg/L	0.04	0.06	-	-
Mercury	0.001	mg/L	< 0.001	< 0.001	-	-
Molybdenum	0.01	mg/L	< 0.01	< 0.01	-	-
Nickel	0.01	mg/L	0.03	0.02	-	-
Selenium	0.05	mg/L	< 0.05	< 0.05	-	-
Silver	0.05	mg/L	< 0.05	< 0.05	-	-
Tin	0.05	mg/L	< 0.05	< 0.05	-	-
Zinc	0.01	mg/L	0.59	0.13	-	-
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.3	5.1	5.8	5.0

Client Sample ID			**SB05_0.5**	**SB06_0.48**	**SB07_0.1_0.2**	**SB08_0.1_0.2**
Sample Matrix			**AUS Leachate - pH 5.0**	**AUS Leachate - pH 5.0**	**AUS Leachate - pH 5.0**	**AUS Leachate - pH 5.0**
Eurofins Sample No.			**M21-Fe26732**	**M21-Fe26733**	**M21-Fe26734**	**M21-Fe26735**
Date Sampled			**Feb 08, 2021**	**Feb 08, 2021**	**Feb 12, 2021**	**Feb 12, 2021**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.1	5.2	5.1	5.0

Client Sample ID			SB10_0.7_0.8	SB15_0.1_0.2	SB14_0.1_0.2	SB18_0.4_0.5
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M21-Fe26736	M21-Fe26738	M21-Fe26739	M21-Fe26740
Date Sampled			Feb 12, 2021	Feb 12, 2021	Feb 12, 2021	Feb 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	< 0.001	-
Heavy Metals						
Arsenic	0.01	mg/L	-	-	-	< 0.01
Cadmium	0.01	mg/L	-	-	-	< 0.01
Chromium	0.01	mg/L	-	-	-	< 0.01
Copper	0.01	mg/L	-	-	-	0.06
Lead	0.01	mg/L	-	-	-	0.14
Mercury	0.001	mg/L	-	-	-	< 0.001
Molybdenum	0.01	mg/L	-	-	-	< 0.01
Nickel	0.01	mg/L	-	-	-	0.02
Selenium	0.05	mg/L	-	-	-	< 0.05
Silver	0.05	mg/L	-	-	-	< 0.05
Tin	0.05	mg/L	-	-	-	< 0.05
Zinc	0.01	mg/L	-	-	-	1.3
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.7	5.0	5.1	5.2
Chromium (hexavalent)	0.05	mg/L	-	< 0.05	-	-

Client Sample ID			SB22_0.1_0.2	SB23_0.35_0.45	SB27_0.3_0.4	SB28_0.6_0.7
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M21-Fe26741	M21-Fe26742	M21-Fe26744	M21-Fe26745
Date Sampled			Feb 12, 2021	Feb 12, 2021	Feb 12, 2021	Feb 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.001	mg/L	-	< 0.001	< 0.001	< 0.001
Heavy Metals						
Arsenic	0.01	mg/L	0.02	0.03	-	0.02
Cadmium	0.01	mg/L	< 0.01	< 0.01	-	< 0.01
Chromium	0.01	mg/L	< 0.01	< 0.01	-	0.02
Copper	0.01	mg/L	0.02	< 0.01	-	0.05
Lead	0.01	mg/L	0.04	0.07	-	0.24
Mercury	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Molybdenum	0.01	mg/L	< 0.01	< 0.01	-	< 0.01
Nickel	0.01	mg/L	< 0.01	0.01	-	0.02
Selenium	0.05	mg/L	< 0.05	< 0.05	-	< 0.05
Silver	0.05	mg/L	< 0.05	< 0.05	-	< 0.05
Tin	0.05	mg/L	< 0.05	< 0.05	-	< 0.05
Zinc	0.01	mg/L	1.3	1.00	-	1.3
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.5	5.2	5.2	5.1

Client Sample ID			SB29_0.05_0.15	SB34_0.4_0.5	SB35_0.1_0.2	SB01_0.45
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 9.2
Eurofins Sample No.			M21-Fe26746	M21-Fe26747	M21-Fe26748	M21-Fe26749
Date Sampled			Feb 13, 2021	Feb 12, 2021	Feb 12, 2021	Feb 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Heavy Metals						
Arsenic	0.01	mg/L	-	0.01	-	-
Cadmium	0.01	mg/L	-	< 0.01	-	-
Chromium	0.01	mg/L	-	< 0.01	-	-
Copper	0.01	mg/L	-	0.03	-	-
Lead	0.01	mg/L	-	0.06	-	-
Mercury	0.001	mg/L	-	< 0.001	-	-
Molybdenum	0.01	mg/L	-	< 0.01	-	-
Nickel	0.01	mg/L	-	0.01	-	-
Selenium	0.05	mg/L	-	< 0.05	-	-
Silver	0.05	mg/L	-	< 0.05	-	-
Tin	0.05	mg/L	-	< 0.05	-	-
Zinc	0.01	mg/L	-	0.73	-	-
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	3.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.1	5.1	5.1	9.2
pH (off)	0.1	pH Units	5.4	5.1	5.1	9.3

Client Sample ID			SB02_0.4	SB03_0.4	SB04_0.1	SB05_0.5
Sample Matrix			AUS Leachate - pH 9.2	AUS Leachate - pH 9.2	AUS Leachate - pH 9.2	AUS Leachate - pH 9.2
Eurofins Sample No.			M21-Fe26750	M21-Fe26751	M21-Fe26752	M21-Fe26753
Date Sampled			Feb 08, 2021	Feb 08, 2021	Feb 08, 2021	Feb 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	3.0	3.0	3.0	3.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	9.2	9.2	9.2	9.2
pH (off)	0.1	pH Units	9.3	9.3	9.3	9.3

Client Sample ID			SB06_0.48	SB07_0.1_0.2	SB08_0.1_0.2	SB10_0.7_0.8
Sample Matrix			AUS Leachate - pH 9.2	AUS Leachate - pH 9.2	AUS Leachate - pH 9.2	AUS Leachate - pH 9.2
Eurofins Sample No.			M21-Fe26754	M21-Fe26755	M21-Fe26756	M21-Fe26757
Date Sampled			Feb 08, 2021	Feb 12, 2021	Feb 12, 2021	Feb 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	3.0	3.0	3.0	3.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	9.2	9.2	9.2	9.2
pH (off)	0.1	pH Units	9.4	9.3	9.3	9.4

Client Sample ID			SB14_0.1_0.2	SB23_0.35_0.45	SB27_0.3_0.4	SB28_0.6_0.7
Sample Matrix			AUS Leachate - pH 9.2	AUS Leachate - pH 9.2	AUS Leachate - pH 9.2	AUS Leachate - pH 9.2
Eurofins Sample No.			M21-Fe26758	M21-Fe26759	M21-Fe26760	M21-Fe26761
Date Sampled			Feb 12, 2021	Feb 12, 2021	Feb 12, 2021	Feb 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	3.0	3.0	3.0	3.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	9.2	9.2	9.2	9.2
pH (off)	0.1	pH Units	9.3	9.3	9.3	9.3

Client Sample ID			SB29_0.05_0.15	SB34_0.4_0.5	SB35_0.1_0.2	SB36_0.1_0.2
Sample Matrix			AUS Leachate - pH 9.2	AUS Leachate - pH 9.2	AUS Leachate - pH 9.2	AUS Leachate - pH 9.2
Eurofins Sample No.			M21-Fe26762	M21-Fe26763	M21-Fe26764	M21-Fe26765
Date Sampled			Feb 12, 2021	Feb 12, 2021	Feb 12, 2021	Feb 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	3.0	3.0	3.0	3.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	9.2	9.2	9.2	9.2
pH (off)	0.1	pH Units	9.3	9.3	9.3	9.3

Client Sample ID			SB37_0.5_0.6	SB38_0.1_0.2	QC03	SB36_0.4-0.5
Sample Matrix			AUS Leachate - pH 9.2	AUS Leachate - pH 9.2	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M21-Fe26766	M21-Fe26767	M21-Fe26960	M21-Fe26961
Date Sampled			Feb 12, 2021	Feb 12, 2021	Feb 12, 2021	Feb 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Heavy Metals						
Arsenic	0.01	mg/L	-	-	0.02	< 0.01
Cadmium	0.01	mg/L	-	-	< 0.01	< 0.01
Chromium	0.01	mg/L	-	-	< 0.01	< 0.01
Copper	0.01	mg/L	-	-	< 0.01	0.03
Lead	0.01	mg/L	-	-	0.07	0.10
Mercury	0.001	mg/L	-	-	< 0.001	< 0.001
Molybdenum	0.01	mg/L	-	-	< 0.01	< 0.01
Nickel	0.01	mg/L	-	-	0.01	0.01
Selenium	0.05	mg/L	-	-	< 0.05	< 0.05
Silver	0.05	mg/L	-	-	< 0.05	< 0.05
Tin	0.05	mg/L	-	-	< 0.05	< 0.05
Zinc	0.01	mg/L	-	-	1.4	0.97

Client Sample ID			SB37_0.5_0.6	SB38_0.1_0.2	QC03	SB36_0.4-0.5
Sample Matrix			AUS Leachate - pH 9.2	AUS Leachate - pH 9.2	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M21-Fe26766	M21-Fe26767	M21-Fe26960	M21-Fe26961
Date Sampled			Feb 12, 2021	Feb 12, 2021	Feb 12, 2021	Feb 12, 2021
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	3.0	3.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	9.2	9.2	5.1	5.1
pH (off)	0.1	pH Units	9.3	9.3	5.4	5.4

Client Sample ID			SB36_0.1-0.2	SB37_0.5-0.6	SB38_0.1-0.2	QC03
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 9.2
Eurofins Sample No.			M21-Fe26962	M21-Fe26963	M21-Fe26964	M21-Fe27926
Date Sampled			Feb 12, 2021	Feb 12, 2021	Feb 12, 2021	Feb 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	3.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.1	5.1	5.1	9.2
pH (off)	0.1	pH Units	5.3	5.4	5.1	9.3

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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
Polycyclic Aromatic Hydrocarbons	Melbourne	Feb 15, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals IWRG 621 : Metals M12	Melbourne	Feb 22, 2021	28 Days
- Method:			
AUS Leaching Procedure			
pH (initial)	Melbourne	Feb 15, 2021	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
pH (Leachate fluid)	Melbourne	Feb 15, 2021	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
pH (off)	Melbourne	Feb 15, 2021	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
Chromium (hexavalent)	Melbourne	Feb 13, 2021	28 Days
- Method: APHA 3500-Cr Hexavalent Chromium- (Extraction:- USEPA3060)			

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Company Name: Senversa Pty Ltd VIC
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Project Name: ELWOOD ADDITIONALS
Project ID: M18310

Order No.:
Report #: 773807
Phone: 9606 0070
Fax:

Received: Feb 11, 2021 8:05 PM
Due: Feb 19, 2021
Priority: 5 Day
Contact Name: Richard Griffin

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Benzo(a)pyrene	Chromium (hexavalent)	Polycyclic Aromatic Hydrocarbons	AUS Leaching Procedure	Metals IWRG 621 : Metals M12	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	SB01_0.45	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26728	X			X	X	
2	SB02_0.4	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26729	X			X	X	
3	SB03_0.4	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26730	X			X		
4	SB04_0.1	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26731	X			X		
5	SB05_0.5	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26732	X			X		
6	SB06_0.48	Feb 08, 2021		AUS Leachate	M21-Fe26733	X			X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
				- pH 5.0							
7	SB07_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26734	X			X		
8	SB08_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26735	X			X		
9	SB10_0.7_0.8	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26736	X			X		
10	SB13_0.8_0.9	Feb 12, 2021		Soil	M21-Fe26737			X		X	X
11	SB15_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26738		X		X		
12	SB14_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26739	X			X		

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Sample Detail						Benzo(a)pyrene	Chromium (hexavalent)	Polycyclic Aromatic Hydrocarbons	AUS Leaching Procedure	Metals IWRG 621 : Metals M12	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
13	SB18_0.4_0.5	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26740				X	X	
14	SB22_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26741				X	X	
15	SB23_0.35_0.45	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26742	X			X	X	
16	SB24_0.9_1.0	Feb 12, 2021		Soil	M21-Fe26743			X		X	X
17	SB27_0.3_0.4	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26744	X			X		
18	SB28_0.6_0.7	Feb 13, 2021		AUS Leachate - pH 5.0	M21-Fe26745	X			X	X	
19	SB29_0.05_0.15	Feb 13, 2021		AUS Leachate - pH 5.0	M21-Fe26746	X			X		

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Sample Detail						Benzo(a)pyrene	Chromium (hexavalent)	Polycyclic Aromatic Hydrocarbons	AUS Leaching Procedure	Metals IWRG 621 : Metals M12	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
20	SB34_0.4_0.5	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26747	X			X	X	
21	SB35_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26748	X			X		
22	SB01_0.45	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26749	X			X		
23	SB02_0.4	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26750	X			X		
24	SB03_0.4	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26751	X			X		
25	SB04_0.1	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26752	X			X		
26	SB05_0.5	Feb 08, 2021		AUS Leachate	M21-Fe26753	X			X		

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Sample Detail						Benzo(a)pyrene	Chromium (hexavalent)	Polycyclic Aromatic Hydrocarbons	AUS Leaching Procedure	Metals IWRG 621 : Metals M12	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
26	SB05_0.5	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26753						
27	SB06_0.48	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26754	X			X		
28	SB07_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26755	X			X		
29	SB08_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26756	X			X		
30	SB10_0.7_0.8	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26757	X			X		
31	SB14_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26758	X			X		
32	SB23_0.35_0.	Feb 12, 2021		AUS Leachate	M21-Fe26759	X			X		

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IANZ # 1290

Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

Project Name: ELWOOD ADDITIONALS
Project ID: M18310

Order No.:
Report #: 773807
Phone: 9606 0070
Fax:

Received: Feb 11, 2021 8:05 PM
Due: Feb 19, 2021
Priority: 5 Day
Contact Name: Richard Griffin

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Benzo(a)pyrene	Chromium (hexavalent)	Polycyclic Aromatic Hydrocarbons	AUS Leaching Procedure	Metals IWRG 621 : Metals M12	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
	45			- pH 9.2							
33	SB27_0.3_0.4	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26760	X			X		
34	SB28_0.6_0.7	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26761	X			X		
35	SB29_0.05_0.15	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26762	X			X		
36	SB34_0.4_0.5	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26763	X			X		
37	SB35_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26764	X			X		
38	SB36_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26765	X			X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
39	SB37_0.5_0.6	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26766	X			X		
40	SB38_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26767	X			X		
41	QC03	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26960	X			X	X	
42	SB36_0.4-0.5	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26961				X	X	
43	SB36_0.1-0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26962	X			X		
44	SB37_0.5-0.6	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26963	X			X		
45	SB38_0.1-0.2	Feb 12, 2021		AUS Leachate	M21-Fe26964	X			X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
				- pH 5.0							
46	SB14_0.8-0.9	Feb 12, 2021		Soil	M21-Fe26965			X		X	X
47	QC03	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe27926	X			X		
Test Counts						40	1	3	44	12	3

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.

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

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 5.3
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

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

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 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate 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									
Heavy Metals									
Arsenic			mg/L	< 0.01			0.01	Pass	
Cadmium			mg/L	< 0.01			0.01	Pass	
Chromium			mg/L	< 0.01			0.01	Pass	
Copper			mg/L	< 0.01			0.01	Pass	
Lead			mg/L	< 0.01			0.01	Pass	
Mercury			mg/L	< 0.001			0.001	Pass	
Molybdenum			mg/L	< 0.01			0.01	Pass	
Nickel			mg/L	< 0.01			0.01	Pass	
Selenium			mg/L	< 0.05			0.05	Pass	
Silver			mg/L	< 0.05			0.05	Pass	
Tin			mg/L	< 0.05			0.05	Pass	
Zinc			mg/L	< 0.01			0.01	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M21-Fe28138	NCP	%	102			75-125	Pass	
Cadmium	M21-Fe28138	NCP	%	102			75-125	Pass	
Chromium	M21-Fe28138	NCP	%	102			75-125	Pass	
Copper	M21-Fe28138	NCP	%	100			75-125	Pass	
Lead	M21-Fe28138	NCP	%	102			75-125	Pass	
Mercury	M21-Fe28138	NCP	%	104			75-125	Pass	
Molybdenum	M21-Fe28138	NCP	%	103			75-125	Pass	
Nickel	M21-Fe28138	NCP	%	102			75-125	Pass	
Selenium	M21-Fe28138	NCP	%	101			75-125	Pass	
Silver	M21-Fe28138	NCP	%	92			75-125	Pass	
Tin	M21-Fe28138	NCP	%	102			75-125	Pass	
Zinc	M21-Fe28138	NCP	%	102			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Benzo(a)pyrene	M21-Fe26736	CP	%	90			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Fe28138	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	M21-Fe28138	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Chromium	M21-Fe28138	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Copper	M21-Fe28138	NCP	mg/L	0.12	0.13	8.0	30%	Pass	
Lead	M21-Fe28138	NCP	mg/L	0.03	0.03	9.0	30%	Pass	
Mercury	M21-Fe28138	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Molybdenum	M21-Fe28138	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Nickel	M21-Fe28138	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Selenium	M21-Fe28138	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Silver	M21-Fe28138	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Tin	M21-Fe28138	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	M21-Fe28138	NCP	mg/L	0.71	0.78	9.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(a)pyrene	M21-Fe26735	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
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
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised by:

Harry Bacalis	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
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.

Senversa Pty Ltd VIC
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NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Richard Griffin**

Report **773807-S**
Project name ELWOOD ADDITIONALS
Project ID M18310
Received Date Feb 11, 2021

Client Sample ID			**SB13_0.8_0.9**	**SB24_0.9_1.0**	**SB14_0.8-0.9**
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M21-Fe26737**	**M21-Fe26743**	**M21-Fe26965**
Date Sampled			**Feb 12, 2021**	**Feb 12, 2021**	**Feb 12, 2021**
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	110	< 0.5	190
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	110	0.6	190
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	110	1.2	190
Acenaphthene	0.5	mg/kg	3.9	< 0.5	4.9
Acenaphthylene	0.5	mg/kg	6.6	< 0.5	5.3
Anthracene	0.5	mg/kg	6.1	< 0.5	11
Benz(a)anthracene	0.5	mg/kg	68	< 0.5	120
Benzo(a)pyrene	0.5	mg/kg	72	< 0.5	120
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	65	< 0.5	120
Benzo(g.h.i)perylene	0.5	mg/kg	41	< 0.5	100
Benzo(k)fluoranthene	0.5	mg/kg	61	< 0.5	100
Chrysene	0.5	mg/kg	97	< 0.5	120
Dibenz(a.h)anthracene	0.5	mg/kg	14	< 0.5	26
Fluoranthene	0.5	mg/kg	210	0.8	300
Fluorene	0.5	mg/kg	2.9	< 0.5	2.3
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	57	< 0.5	78
Naphthalene	0.5	mg/kg	4.7	< 0.5	3.1
Phenanthrene	0.5	mg/kg	61	< 0.5	62
Pyrene	0.5	mg/kg	210	0.9	350
Total PAH*	0.5	mg/kg	980.2	1.7	1522.6
2-Fluorobiphenyl (surr.)	1	%	55	140	66
p-Terphenyl-d14 (surr.)	1	%	66	81	77
Heavy Metals					
Arsenic	2	mg/kg	17	46	5.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	29	53	17
Copper	5	mg/kg	35	12	34
Lead	5	mg/kg	180	27	25
Mercury	0.1	mg/kg	0.2	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5
Nickel	5	mg/kg	24	29	92
Selenium	2	mg/kg	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2
Tin	10	mg/kg	21	< 10	< 10
Zinc	5	mg/kg	440	46	71

Client Sample ID			SB13_0.8_0.9	SB24_0.9_1.0	SB14_0.8-0.9
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M21-Fe26737**	**M21-Fe26743**	**M21-Fe26965**
Date Sampled			**Feb 12, 2021**	**Feb 12, 2021**	**Feb 12, 2021**
Test/Reference	LOR	Unit			
% Moisture	1	%	15	20	5.9

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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
Polycyclic Aromatic Hydrocarbons	Melbourne	Feb 13, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals IWRG 621 : Metals M12	Melbourne	Feb 22, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Melbourne	Feb 13, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			

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Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	SB01_0.45	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26728	X			X	X	
2	SB02_0.4	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26729	X			X	X	
3	SB03_0.4	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26730	X			X		
4	SB04_0.1	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26731	X			X		
5	SB05_0.5	Feb 08, 2021		AUS Leachate - pH 5.0	M21-Fe26732	X			X		
6	SB06_0.48	Feb 08, 2021		AUS Leachate	M21-Fe26733	X			X		

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Fax:

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Eurofins Analytical Services Manager : Harry Bacalis

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
				- pH 5.0							
7	SB07_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26734	X			X		
8	SB08_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26735	X			X		
9	SB10_0.7_0.8	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26736	X			X		
10	SB13_0.8_0.9	Feb 12, 2021		Soil	M21-Fe26737			X		X	X
11	SB15_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26738		X		X		
12	SB14_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26739	X			X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
13	SB18_0.4_0.5	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26740				X	X	
14	SB22_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26741				X	X	
15	SB23_0.35_0.45	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26742	X			X	X	
16	SB24_0.9_1.0	Feb 12, 2021		Soil	M21-Fe26743			X		X	X
17	SB27_0.3_0.4	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26744	X			X		
18	SB28_0.6_0.7	Feb 13, 2021		AUS Leachate - pH 5.0	M21-Fe26745	X			X	X	
19	SB29_0.05_0.15	Feb 13, 2021		AUS Leachate - pH 5.0	M21-Fe26746	X			X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
20	SB34_0.4_0.5	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26747	X			X	X	
21	SB35_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26748	X			X		
22	SB01_0.45	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26749	X			X		
23	SB02_0.4	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26750	X			X		
24	SB03_0.4	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26751	X			X		
25	SB04_0.1	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26752	X			X		
26	SB05_0.5	Feb 08, 2021		AUS Leachate	M21-Fe26753	X			X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
26	SB05_0.5	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26753						
27	SB06_0.48	Feb 08, 2021		AUS Leachate - pH 9.2	M21-Fe26754	X			X		
28	SB07_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26755	X			X		
29	SB08_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26756	X			X		
30	SB10_0.7_0.8	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26757	X			X		
31	SB14_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26758	X			X		
32	SB23_0.35_0.	Feb 12, 2021		AUS Leachate	M21-Fe26759	X			X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
	45			- pH 9.2							
33	SB27_0.3_0.4	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26760	X			X		
34	SB28_0.6_0.7	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26761	X			X		
35	SB29_0.05_0.15	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26762	X			X		
36	SB34_0.4_0.5	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26763	X			X		
37	SB35_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26764	X			X		
38	SB36_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26765	X			X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
39	SB37_0.5_0.6	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26766	X			X		
40	SB38_0.1_0.2	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe26767	X			X		
41	QC03	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26960	X			X	X	
42	SB36_0.4-0.5	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26961				X	X	
43	SB36_0.1-0.2	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26962	X			X		
44	SB37_0.5-0.6	Feb 12, 2021		AUS Leachate - pH 5.0	M21-Fe26963	X			X		
45	SB38_0.1-0.2	Feb 12, 2021		AUS Leachate	M21-Fe26964	X			X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
				- pH 5.0							
46	SB14_0.8-0.9	Feb 12, 2021		Soil	M21-Fe26965			X		X	X
47	QC03	Feb 12, 2021		AUS Leachate - pH 9.2	M21-Fe27926	X			X		
Test Counts						40	1	3	44	12	3

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.

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

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 5.3
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

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

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 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate 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							
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	
Molybdenum	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Silver	mg/kg	< 2			2	Pass	
Tin	mg/kg	< 10			10	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	103			70-130	Pass	
Acenaphthylene	%	72			70-130	Pass	
Anthracene	%	87			70-130	Pass	
Benz(a)anthracene	%	102			70-130	Pass	
Benzo(a)pyrene	%	79			70-130	Pass	
Benzo(b&j)fluoranthene	%	81			70-130	Pass	
Benzo(g.h.i)perylene	%	89			70-130	Pass	
Benzo(k)fluoranthene	%	85			70-130	Pass	
Chrysene	%	87			70-130	Pass	
Dibenz(a.h)anthracene	%	101			70-130	Pass	
Fluoranthene	%	120			70-130	Pass	
Fluorene	%	99			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	96			70-130	Pass	
Naphthalene	%	107			70-130	Pass	
Phenanthrene	%	81			70-130	Pass	
Pyrene	%	110			70-130	Pass	
LCS - % Recovery							
Heavy Metals							

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Arsenic			%	106			80-120	Pass	
Cadmium			%	99			80-120	Pass	
Chromium			%	107			80-120	Pass	
Copper			%	107			80-120	Pass	
Lead			%	108			80-120	Pass	
Mercury			%	110			80-120	Pass	
Molybdenum			%	109			80-120	Pass	
Nickel			%	104			80-120	Pass	
Selenium			%	112			80-120	Pass	
Silver			%	104			80-120	Pass	
Tin			%	104			80-120	Pass	
Zinc			%	105			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M21-Fe20979	NCP	%	101			75-125	Pass	
Cadmium	M21-Fe20979	NCP	%	99			75-125	Pass	
Chromium	M21-Fe20979	NCP	%	104			75-125	Pass	
Copper	M21-Fe20979	NCP	%	100			75-125	Pass	
Lead	M21-Fe20979	NCP	%	101			75-125	Pass	
Mercury	M21-Fe20979	NCP	%	106			75-125	Pass	
Molybdenum	M21-Fe20979	NCP	%	106			75-125	Pass	
Nickel	M21-Fe20979	NCP	%	101			75-125	Pass	
Selenium	M21-Fe20979	NCP	%	92			75-125	Pass	
Silver	M21-Fe20979	NCP	%	102			75-125	Pass	
Tin	M21-Fe20979	NCP	%	106			75-125	Pass	
Zinc	M21-Fe20979	NCP	%	95			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M21-Fe20709	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Fe20988	NCP	mg/kg	32	32	1.0	30%	Pass	
Cadmium	M21-Fe20988	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-Fe20988	NCP	mg/kg	25	21	21	30%	Pass	
Copper	M21-Fe20988	NCP	mg/kg	14	13	6.0	30%	Pass	
Lead	M21-Fe20988	NCP	mg/kg	34	53	45	30%	Fail	Q15

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	M21-Fe20988	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M21-Fe20988	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-Fe20988	NCP	mg/kg	13	11	20	30%	Pass	
Selenium	M21-Fe20988	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M21-Fe20988	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M21-Fe20988	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M21-Fe20988	NCP	mg/kg	150	91	46	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M21-Fe26581	NCP	%	13	14	7.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
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
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:

Harry Bacalis	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (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.

#AU_CAU001_EnviroSampleVic

From: Isaac Graves <Isaac.Graves@senversa.com.au>
Sent: Saturday, 6 March 2021 8:27 AM
To: #AU_CAU001_EnviroSampleVic
Cc: Harry Bacalis
Subject: COC for samples delivered under reference M18310 on 05/03/21
Attachments: M18310 COC 05.03.21 1.pdf; M18310 COC 05.03.21 2.pdf

Hi,

Please find attached updated analysis for samples delivered to Eurofins Melbourne yesterday 05/03/21 under job reference M18310.

Let me know if you have any questions.

778664
L.Bryers

Thanks,

Isaac Graves
Senior Environmental Geologist / BSc (Geology), MSc (Earth Science)

M: **+61 447 064 600**
T: **+61 3 9606 0070**
E: **isaac.graves@senversa.com.au**

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Melbourne VIC 3000
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Senversa Pty Ltd
www.senversa.com.au
ABN 89 132 231 380

Chain of Custody Documentation

Laboratory: mgt/Eurofins VIC
Address:
Contact: Sample Receipt
Phone:

Job Number: M18310		**Purchase Order:**	
Project Name: DSI		**Quote No:**	
Sampled By: ISAAC GRAVES		**Turn Around Time:**	STANDARD
Project Manager: ISAAC GRAVES		**Page:**	1 of 2
Email Report To: isaac.graves@senversa.com.au		**Phone/Mobile:**	0447064600

Comments: e.g. Highly contaminated samples; hazardous materials present; trace LORs etc.
778664
L.Burg[illegible]

Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	B7: TRH, BTEXN, PAH, & Metals (Analysis Required)	HOLD
	SB37_0.9-1.0	Soil	05/03/21	AM	GLASS	1		X
	SB37_1.4-1.5	↓	↓	↓	↓	↓	X	
	SB32_0.9-1.0						X	
	SB25_0.5-0.6							
	SB23_1.4-1.5						X	
	SB23_0.9-1.0							
	SB23_1.9-2.0							
	SB22_0.9-1.0							
	SB22_1.4-1.5			↓			X	
	SB22_1.9-2.0			AM				
	SB20_0.9-1.0			PM				
	SB20_1.4-1.5			↓				
	SB20_1.9-2.0							
	SB20_2.4-2.5						X	
	SB20_2.9-3.0							
	SB12_0.4-0.5							
	SB12_0.9-1.0							
	SB12_1.4-1.5							
	SB12_1.9-2.0						X	
	SB14_1.4-1.5	↓	↓	↓	↓	↓		↓
Total								

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:	Sampler Name: I. Graves	Signature: [signature]	Date: 05/03/21

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature: I GRAVES	Date: 05/03/21	Carrier / Reference #: CN/C	Name/Signature:	Date:
Of: SENVERSA	Time: 1600	Date/Time: 16:00	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #: Jim	Name/Signature:	Date:
Of:	Time:	Date/Time: 320	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic;
V = VOA Vial Hydrochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic;
F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's Iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: ________
Checked by: ________

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Senversa Pty Ltd
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ABN 89 132 231 380

Chain of Custody Documentation

Laboratory:	mgt/Eurofins VIC
Address:	
Contact:	Sample Receipt
Phone:	

Job Number:	M18310	Purchase Order:	
Project Name:	DSI	Quote No:	
Sampled By:	ISAAC GRAVES	Turn Around Time:	STANDARD
Project Manager:	ISAAC GRAVES	Page:	2 of 2
Email Report To:	isaac.graves@senversa.com.au	Phone/Mobile:	0447 064 600

Comments: e.g. Highly contaminated samples; hazardous materials present; trace LORs etc.

778664
L Dwyer

Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	B7: TRH, BTEXN, PAH, 8 Metals										HOLD
	SB14_1.9-2.0	Soil	05/03/21	PM	GLASS	1	X										
	SB13_1.1-1.2	↓	↓	↓	↓	↓											
	SB13_1.4-1.5	↓	↓	↓	↓	↓											
	SB13_1.9-2.0	↓	↓	↓	↓	↓	X										
Total																	

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:	Sampler Name: I. GRAVES	Signature: [signature]	Date: 05/03/21

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature: I. GRAVES	Date: 05/03/21	Carrier / Reference #: CIVIC	Name/Signature:	Date:
Of: SENVERSA	Time: 1600	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #: 339	Name/Signature:	Date:
Of:	Time:	Date/Time: [signature]	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic;
V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic;
F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's Iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

...ated by: ______
...ked by: ______

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Chain of Custody Documentation

Senversa Pty Ltd
www.senversa.com.au
ABN 89 132 231 380

Laboratory: mgt/Eurofins VIC
Address:
Contact: Sample Receipt
Phone:

Job Number: M18310	Purchase Order:
Project Name: DSI	Quote No:
Sampled By: ISAAC GRAVES	Turn Around Time: STANDARD
Project Manager: ISAAC GRAVES	Page: 1 of 2
Email Report To: isaac.graves@senversa.com.au	Phone/Mobile: 0447064600

Analysis Required

Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.

778664 L. Burgess

Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	HOLD
	SB37_0.9-1.0	Soil	05/03/21	AM	GLASS	1	X
	SB37_1.4-1.5	↓	↓	↓	↓	↓	↓
	SB32_0.9-1.0						
	SB25_0.5-0.6						
	SB23_1.4-1.5						
	SB23_0.9-1.0						
	SB23_1.9-2.0						
	SB22_0.9-1.0						
	SB22_1.4-1.5			↓			
	SB22_1.9-2.0			AM			
	SB20_0.9-1.0			PM			
	SB20_1.4-1.5			↓			
	SB20_1.9-2.0						
	SB20_2.4-2.5						
	SB20_2.9-3.0						
	SB12_0.4-0.5						
	SB12_0.9-1.0						
	SB12_1.4-1.5						
	SB12_1.9-2.0						
	SB14_1.4-1.5	↓	↓	↓	↓	↓	↓
Total							

Date/Time: 5/3 6pm 5/3
8.6
8.3

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:
Sampler Name: I. Graves | Signature: [signature] | Date: 05/03/21

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature: I GRAVES	Date: 05/03/21	Carrier / Reference #: Chile	Name/Signature:	Date:
Of: SENVERSA	Time: 1600	Date/Time: 16:00	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #: Jim	Name/Signature:	Date:
Of:	Time:	Date/Time: 330	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's Iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: ________
Checked by: ________

senversa

Chain of Custody Documentation

Senversa Pty Ltd
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ABN 89 132 231 380

Laboratory: mgt/Eurofins VIC
Address:
Contact: Sample Receipt
Phone:

Job Number: M18310
Project Name: DSI
Sampled By: ISAAC GRAVES
Project Manager: ISAAC GRAVES
Email Report To: isaac.graves@senversa.com.au

Purchase Order:
Quote No:
Turn Around Time: STANDARD
Page: 2 of 2
Phone/Mobile: 0447 064 600

778664
L. Bugeja

Lab ID	Sample ID	Matrix *	Date	Time	Container Information: Type / Code	Container Information: Total Bottles	Analysis Required: HOLD
	SB14_1.9-2.0	SOIL	05/03/21	PM	GLASS	1	X
	SB13-1.1-1.2	↓	↓	↓	↓	↓	↓
	SB13-1.4-1.5						
	SB13-1.9-2.0						
Total							

Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:

Sampler Name: I. GRAVES **Signature:** **Date:** 05/03/21

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature: I. GRAVES	Date: 5/03/21	Carrier / Reference #: CIVIC	Name/Signature:	Date:
Of: SENVERSA	Time: 1600	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #: 339	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: _____
Checked by: _____

eurofins | Environment Testing

ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
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Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	Senversa Pty Ltd VIC
Contact name:	Isaac Graves
Project name:	DSI
Project ID:	M18310
Turnaround time:	5 Day
Date/Time received	Mar 6, 2021 8:27 AM
Eurofins reference	778664

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 8.6 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

SB20_2.4-2.5 labeled as 2.5-3.0. Logged as per COC

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Harry Bacalis on phone : or by email: HarryBacalis@eurofins.com

Results will be delivered electronically via email to Isaac Graves - Isaac.Graves@senversa.com.au.

Note: A copy of these results will also be delivered to the general Senversa Pty Ltd VIC email address.

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
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Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
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Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

Project Name: DSI
Project ID: M18310

Order No.:
Report #: 778664
Phone: 9606 0070
Fax:

Received: Mar 6, 2021 8:27 AM
Due: Mar 16, 2021
Priority: 5 Day
Contact Name: Isaac Graves

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						HOLD	Moisture Set	Eurofins Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	SB37_1.4-1.5	Mar 05, 2021		Soil	M21-Ma13851		X	X
2	SB32_0.9-1.0	Mar 05, 2021		Soil	M21-Ma13852		X	X
3	SB23_1.4-1.5	Mar 05, 2021		Soil	M21-Ma13853		X	X
4	SB22_1.4-1.5	Mar 05, 2021		Soil	M21-Ma13854		X	X
5	SB20_2.4-2.5	Mar 05, 2021		Soil	M21-Ma13855		X	X
6	SB12_1.9-2.0	Mar 05, 2021		Soil	M21-Ma13856		X	X
7	SB14_1.9-2.0	Mar 05, 2021		Soil	M21-Ma13857		X	X
8	SB13_1.9-2.0	Mar 05, 2021		Soil	M21-Ma13858		X	X
9	SB37_0.9-1.0	Mar 05, 2021		Soil	M21-Ma13859	X		

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Site # 1254 & 14271

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Rolleston, Christchurch 7675
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IANZ # 1290

Company Name: Senversa Pty Ltd VIC
Address: Level 6, 15 William St
Melbourne
VIC 3000

Project Name: DSI
Project ID: M18310

Order No.:
Report #: 778664
Phone: 9606 0070
Fax:

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Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
10	SB25_0.5-0.6	Mar 05, 2021		Soil	M21-Ma13860	X		
11	SB23_0.9-1.0	Mar 05, 2021		Soil	M21-Ma13861	X		
12	SB23_1.9-2.0	Mar 05, 2021		Soil	M21-Ma13862	X		
13	SB22_0.9-1.0	Mar 05, 2021		Soil	M21-Ma13863	X		
14	SB22_1.9-2.0	Mar 05, 2021		Soil	M21-Ma13864	X		
15	SB20_0.9-1.0	Mar 05, 2021		Soil	M21-Ma13865	X		
16	SB20_1.4-1.5	Mar 05, 2021		Soil	M21-Ma13866	X		
17	SB20_1.9-2.0	Mar 05, 2021		Soil	M21-Ma13867	X		
18	SB20_2.9-3.0	Mar 05, 2021		Soil	M21-Ma13868	X		
19	SB12_0.4-0.5	Mar 05, 2021		Soil	M21-Ma13869	X		
20	SB12_0.9-1.0	Mar 05, 2021		Soil	M21-Ma13870	X		

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Mayfield Laboratory								
External Laboratory								
21	SB12_1.4-1.5	Mar 05, 2021		Soil	M21-Ma13871	X		
22	SB14_1.4-1.5	Mar 05, 2021		Soil	M21-Ma13872	X		
23	SB13_1.1-1.2	Mar 05, 2021		Soil	M21-Ma13873	X		
24	SB13_1.4-1.5	Mar 05, 2021		Soil	M21-Ma13874	X		
Test Counts						16	8	8

Senversa Pty Ltd VIC
Level 6, 15 William St
Melbourne
VIC 3000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Isaac Graves**

Report **778664-S**
Project name DSI
Project ID M18310
Received Date Mar 06, 2021

Client Sample ID			**SB37_1.4-1.5**	**SB32_0.9-1.0**	**SB23_1.4-1.5**	**SB22_1.4-1.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M21-Ma13851**	**M21-Ma13852**	**M21-Ma13853**	**M21-Ma13854**
Date Sampled			**Mar 05, 2021**	**Mar 05, 2021**	**Mar 05, 2021**	**Mar 05, 2021**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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
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	%	78	77	74	71
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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
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

Client Sample ID			SB37_1.4-1.5	SB32_0.9-1.0	SB23_1.4-1.5	SB22_1.4-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ma13851	M21-Ma13852	M21-Ma13853	M21-Ma13854
Date Sampled			Mar 05, 2021	Mar 05, 2021	Mar 05, 2021	Mar 05, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
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	69	68	85
p-Terphenyl-d14 (surr.)	1	%	82	67	71	67
Heavy Metals						
Arsenic	2	mg/kg	46	4.9	12	2.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	84	47	30	< 5
Copper	5	mg/kg	< 5	8.2	< 5	5.8
Lead	5	mg/kg	17	12	< 5	43
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	29	13	9.7	< 5
Zinc	5	mg/kg	12	15	9.1	13
% Moisture	1	%	20	14	17	19

Client Sample ID			SB20_2.4-2.5	SB12_1.9-2.0	SB14_1.9-2.0	SB13_1.9-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ma13855	M21-Ma13856	M21-Ma13857	M21-Ma13858
Date Sampled			Mar 05, 2021	Mar 05, 2021	Mar 05, 2021	Mar 05, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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
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	%	71	70	70	81
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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

Client Sample ID			SB20_2.4-2.5	SB12_1.9-2.0	SB14_1.9-2.0	SB13_1.9-2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Ma13855	M21-Ma13856	M21-Ma13857	M21-Ma13858
Date Sampled			Mar 05, 2021	Mar 05, 2021	Mar 05, 2021	Mar 05, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
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
Fluoranthene	0.5	mg/kg	0.6	< 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	0.6	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	1.2	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	62	61	76	69
p-Terphenyl-d14 (surr.)	1	%	70	53	77	64
Heavy Metals						
Arsenic	2	mg/kg	170	14	12	40
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	150	44	41	61
Copper	5	mg/kg	10	9.5	13	17
Lead	5	mg/kg	44	9.9	12	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	90	16	15	20
Zinc	5	mg/kg	150	14	14	22
% Moisture	1	%	23	23	26	27

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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 B7			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Mar 11, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Mar 11, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Mar 11, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Mar 11, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Melbourne	Mar 11, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Melbourne	Mar 11, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Melbourne	Mar 06, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			

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3	SB23_1.4-1.5	Mar 05, 2021		Soil	M21-Ma13853		X	X
4	SB22_1.4-1.5	Mar 05, 2021		Soil	M21-Ma13854		X	X
5	SB20_2.4-2.5	Mar 05, 2021		Soil	M21-Ma13855		X	X
6	SB12_1.9-2.0	Mar 05, 2021		Soil	M21-Ma13856		X	X
7	SB14_1.9-2.0	Mar 05, 2021		Soil	M21-Ma13857		X	X
8	SB13_1.9-2.0	Mar 05, 2021		Soil	M21-Ma13858		X	X
9	SB37_0.9-1.0	Mar 05, 2021		Soil	M21-Ma13859	X		

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External Laboratory								
10	SB25_0.5-0.6	Mar 05, 2021		Soil	M21-Ma13860	X		
11	SB23_0.9-1.0	Mar 05, 2021		Soil	M21-Ma13861	X		
12	SB23_1.9-2.0	Mar 05, 2021		Soil	M21-Ma13862	X		
13	SB22_0.9-1.0	Mar 05, 2021		Soil	M21-Ma13863	X		
14	SB22_1.9-2.0	Mar 05, 2021		Soil	M21-Ma13864	X		
15	SB20_0.9-1.0	Mar 05, 2021		Soil	M21-Ma13865	X		
16	SB20_1.4-1.5	Mar 05, 2021		Soil	M21-Ma13866	X		
17	SB20_1.9-2.0	Mar 05, 2021		Soil	M21-Ma13867	X		
18	SB20_2.9-3.0	Mar 05, 2021		Soil	M21-Ma13868	X		
19	SB12_0.4-0.5	Mar 05, 2021		Soil	M21-Ma13869	X		
20	SB12_0.9-1.0	Mar 05, 2021		Soil	M21-Ma13870	X		

eurofins | Environment Testing

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Project Name: DSI
Project ID: M18310

Order No.:
Report #: 778664
Phone: 9606 0070
Fax:

Received: Mar 6, 2021 8:27 AM
Due: Mar 16, 2021
Priority: 5 Day
Contact Name: Isaac Graves

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						HOLD	Moisture Set	Eurofins Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
21	SB12_1.4-1.5	Mar 05, 2021		Soil	M21-Ma13871	X		
22	SB14_1.4-1.5	Mar 05, 2021		Soil	M21-Ma13872	X		
23	SB13_1.1-1.2	Mar 05, 2021		Soil	M21-Ma13873	X		
24	SB13_1.4-1.5	Mar 05, 2021		Soil	M21-Ma13874	X		
Test Counts						16	8	8

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.

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

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 5.3
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

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

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 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate 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 - 1999 NEPM Fractions							
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	
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							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
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							
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	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	97			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	%	117			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	79			70-130	Pass	
Toluene	%	91			70-130	Pass	
Ethylbenzene	%	82			70-130	Pass	
m&p-Xylenes	%	90			70-130	Pass	
Xylenes - Total*	%	89			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	91			70-130	Pass	
TRH C6-C10	%	81			70-130	Pass	
TRH >C10-C16	%	128			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	94			70-130	Pass	
Acenaphthylene	%	116			70-130	Pass	
Anthracene	%	74			70-130	Pass	
Benz(a)anthracene	%	77			70-130	Pass	
Benzo(a)pyrene	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	%	101			70-130	Pass	
Benzo(g.h.i)perylene	%	80			70-130	Pass	
Benzo(k)fluoranthene	%	90			70-130	Pass	
Chrysene	%	92			70-130	Pass	
Dibenz(a.h)anthracene	%	80			70-130	Pass	
Fluoranthene	%	74			70-130	Pass	
Fluorene	%	106			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	74			70-130	Pass	
Naphthalene	%	93			70-130	Pass	
Phenanthrene	%	76			70-130	Pass	
Pyrene	%	79			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	103			80-120	Pass	
Cadmium	%	98			80-120	Pass	
Chromium	%	116			80-120	Pass	
Copper	%	112			80-120	Pass	
Lead	%	113			80-120	Pass	
Mercury	%	117			80-120	Pass	
Nickel	%	109			80-120	Pass	
Zinc	%	105			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	M21-Ma10445	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	M21-Ma10445	NCP	%	106			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M21-Ma18264	NCP	%	82			70-130	Pass	
Acenaphthylene	M21-Ma18264	NCP	%	104			70-130	Pass	
Anthracene	M21-Ma18264	NCP	%	81			70-130	Pass	
Benz(a)anthracene	M21-Ma18264	NCP	%	81			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(a)pyrene	M21-Ma18264	NCP	%	81			70-130	Pass	
Benzo(b&j)fluoranthene	M21-Ma18264	NCP	%	83			70-130	Pass	
Benzo(g.h.i)perylene	M21-Ma18264	NCP	%	83			70-130	Pass	
Benzo(k)fluoranthene	M21-Ma18264	NCP	%	98			70-130	Pass	
Chrysene	M21-Ma18264	NCP	%	108			70-130	Pass	
Dibenz(a.h)anthracene	M21-Ma18264	NCP	%	88			70-130	Pass	
Fluoranthene	M21-Ma18264	NCP	%	83			70-130	Pass	
Fluorene	M21-Ma18264	NCP	%	97			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M21-Ma18264	NCP	%	93			70-130	Pass	
Naphthalene	M21-Ma18264	NCP	%	95			70-130	Pass	
Phenanthrene	M21-Ma18264	NCP	%	86			70-130	Pass	
Pyrene	M21-Ma18264	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	M21-Ma13852	CP	%	117			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M21-Ma13852	CP	%	86			70-130	Pass	
Toluene	M21-Ma13852	CP	%	103			70-130	Pass	
Ethylbenzene	M21-Ma13852	CP	%	96			70-130	Pass	
m&p-Xylenes	M21-Ma13852	CP	%	105			70-130	Pass	
o-Xylene	M21-Ma13852	CP	%	99			70-130	Pass	
Xylenes - Total*	M21-Ma13852	CP	%	103			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M21-Ma13852	CP	%	100			70-130	Pass	
TRH C6-C10	M21-Ma13852	CP	%	100			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M21-Ma13856	CP	%	97			75-125	Pass	
Cadmium	M21-Ma13856	CP	%	96			75-125	Pass	
Chromium	M21-Ma13856	CP	%	104			75-125	Pass	
Copper	M21-Ma13856	CP	%	109			75-125	Pass	
Lead	M21-Ma13856	CP	%	112			75-125	Pass	
Mercury	M21-Ma13856	CP	%	109			75-125	Pass	
Nickel	M21-Ma13856	CP	%	108			75-125	Pass	
Zinc	M21-Ma13856	CP	%	108			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	B21-Ma04272	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M21-Ma13851	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M21-Ma13851	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M21-Ma13851	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	B21-Ma04272	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	B21-Ma04272	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	B21-Ma04272	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	B21-Ma04272	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	B21-Ma04272	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	B21-Ma04272	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	B21-Ma04272	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	B21-Ma04272	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M21-Ma13851	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M21-Ma13851	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M21-Ma13851	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M21-Ma13851	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Ma13855	CP	mg/kg	170	140	21	30%	Pass	
Cadmium	M21-Ma13855	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-Ma13855	CP	mg/kg	150	130	18	30%	Pass	
Copper	M21-Ma13855	CP	mg/kg	10	13	26	30%	Pass	
Lead	M21-Ma13855	CP	mg/kg	44	41	7.0	30%	Pass	
Mercury	M21-Ma13855	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M21-Ma13855	CP	mg/kg	90	73	21	30%	Pass	
Zinc	M21-Ma13855	CP	mg/kg	150	130	12	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M21-Ma13855	CP	%	23	20	11	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Ma13856	CP	mg/kg	14	14	6.0	30%	Pass	
Cadmium	M21-Ma13856	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-Ma13856	CP	mg/kg	44	49	9.0	30%	Pass	
Copper	M21-Ma13856	CP	mg/kg	9.5	10	8.0	30%	Pass	
Lead	M21-Ma13856	CP	mg/kg	9.9	11	8.0	30%	Pass	
Mercury	M21-Ma13856	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M21-Ma13856	CP	mg/kg	16	17	7.0	30%	Pass	
Zinc	M21-Ma13856	CP	mg/kg	14	15	7.0	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	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

Authorised by:

Michael Cassidy	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Vivian Wang	Senior Analyst-Volatile (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.

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EM2021988**	Page	: 1 of 4
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: KATIE RICHARDSON	Contact	: Peter Ravlic
Address	: Level 6, 15 William St Melbourne VICTORIA, AUSTRALIA 3000	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +6138549 9645
Project	: M18310	Date Samples Received	: 10-Dec-2020 09:35
Order number	: ----	Date Analysis Commenced	: 11-Dec-2020
C-O-C number	: ----	Issue Date	: 14-Dec-2020 14:03
Sampler	: MH		
Site	: ----		
Quote number	: EN/333 (secondary work only)		
No. of samples received	: 1		
No. of samples analysed	: 1		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

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

Signatories	*Position*	*Accreditation Category*
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Organics, Springvale, VIC

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

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

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

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

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

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	QC02	----	----	----	----
			Sampling date / time	08-Dec-2020 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	EM2021988-001	--------	--------	--------	--------
				Result	----	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	4.1	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	3.0	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	28.1	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	2.1	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	4.7	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	162	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	39.4	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	194	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	176	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	91.6	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg	73.0	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	116	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	38.0	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	115	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	54.0	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	15.1	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	68.7	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	1180	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	161	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	161	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	161	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	96.4	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%	90.6	----	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%	81.8	----	----	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	98.8	----	----	----	----
Anthracene-d10	1719-06-8	0.5	%	117	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%	88.8	----	----	----	----

Surrogate Control Limits

Sub-Matrix: **SOIL**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	54	125
2-Chlorophenol-D4	93951-73-6	65	123
2.4.6-Tribromophenol	118-79-6	34	122
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	61	125
Anthracene-d10	1719-06-8	62	130
4-Terphenyl-d14	1718-51-0	67	133

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EM2021988**	Page	: 1 of 3
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: KATIE RICHARDSON	Contact	: Peter Ravlic
Address	: Level 6, 15 William St Melbourne VICTORIA, AUSTRALIA 3000	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +6138549 9645
Project	: M18310	Date Samples Received	: 10-Dec-2020
Order number	: ----	Date Analysis Commenced	: 11-Dec-2020
C-O-C number	: ----	Issue Date	: 14-Dec-2020
Sampler	: MH		
Site	: ----		
Quote number	: EN/333 (secondary work only)		
No. of samples received	: 1		
No. of samples analysed	: 1		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

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

Signatories	*Position*	*Accreditation Category*
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	Senior Organic Chemist	Melbourne Organics, Springvale, VIC

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

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

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

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 3414788)									
EM2021988-001	QC02	EA055: Moisture Content	----	0.1	%	4.1	3.9	5.02	0% - 20%
EM2022022-002	Anonymous	EA055: Moisture Content	----	0.1	%	3.7	3.9	4.27	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 3414294)									
EB2032084-018	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 3414294)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	3 mg/kg	95.2	85.7	123
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	3 mg/kg	93.3	81.0	123
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	3 mg/kg	93.2	83.6	120
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	3 mg/kg	90.4	81.3	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3 mg/kg	92.7	79.4	123
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	3 mg/kg	95.0	81.7	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	3 mg/kg	95.2	78.3	124
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	3 mg/kg	100.0	79.9	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	3 mg/kg	92.3	76.9	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	3 mg/kg	96.1	80.9	130
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	3 mg/kg	81.9	70.0	121
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3 mg/kg	100	80.4	130
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	3 mg/kg	87.6	70.2	123
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3 mg/kg	85.7	67.9	122
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	3 mg/kg	84.8	65.8	123
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	3 mg/kg	88.0	65.8	127

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 3414294)							
EM2022021-002	Anonymous	EP075(SIM): Acenaphthene	83-32-9	3 mg/kg	91.1	77.2	116
		EP075(SIM): Pyrene	129-00-0	3 mg/kg	104	65.5	136

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2021988**	Page	: 1 of 4
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: KATIE RICHARDSON	Telephone	: +6138549 9645
Project	: M18310	Date Samples Received	: 10-Dec-2020
Site	: ----	Issue Date	: 14-Dec-2020
Sampler	: MH	No. of samples received	: 1
Order number	: ----	No. of samples analysed	: 1

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
QC02	**08-Dec-2020**	**----**	----	----	**11-Dec-2020**	22-Dec-2020	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM))							
QC02	**08-Dec-2020**	**11-Dec-2020**	22-Dec-2020	✓	**11-Dec-2020**	20-Jan-2021	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)

Preparation Methods	Method	Matrix	Method Descriptions
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

ALS Environmental

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EM2021988**

Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: KATIE RICHARDSON	Contact	: Peter Ravlic
Address	: Level 6, 15 William St Melbourne VICTORIA, AUSTRALIA 3000	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: katie.richardson@senversa.com.au	E-mail	: peter.ravlic@alsglobal.com
Telephone	: ----	Telephone	: +6138549 9645
Facsimile	: ----	Facsimile	: +61-3-8549 9626
Project	: M18310	Page	: 1 of 2
Order number	: ----	Quote number	: EM2017SENVER0009 (EN/333 (secondary work only))
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: MH		

Dates

Date Samples Received	: 10-Dec-2020 09:35	Issue Date	: 10-Dec-2020
Client Requested Due Date	: 15-Dec-2020	Scheduled Reporting Date	: **15-Dec-2020**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 6.2°C - Ice present
Receipt Detail	:	No. of samples received / analysed	: 1 / 1

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please direct any queries related to sample condition / numbering / breakages to Client Services.**
- Sample Disposal - Aqueous (3 weeks), Solid (2 months) from receipt of samples.
- **Analytical work for this work order will be conducted at ALS Springvale.**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EA055-103 Moisture Content	SOIL - EP075 SIM PAH only SIM - PAH only
EM2021988-001	08-Dec-2020 00:00	QC02	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

KATIE RICHARDSON

- *AU Certificate of Analysis - NATA (COA)	Email	katie.richardson@senversa.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	katie.richardson@senversa.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	katie.richardson@senversa.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	katie.richardson@senversa.com.au
- A4 - AU Tax Invoice (INV)	Email	katie.richardson@senversa.com.au
- Chain of Custody (CoC) (COC)	Email	katie.richardson@senversa.com.au
- EDI Format - ENMRG (ENMRG)	Email	katie.richardson@senversa.com.au
- EDI Format - ESDAT (ESDAT)	Email	katie.richardson@senversa.com.au

MOLLY HOAK

- *AU Certificate of Analysis - NATA (COA)	Email	molly.hoak@senversa.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	molly.hoak@senversa.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	molly.hoak@senversa.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	molly.hoak@senversa.com.au
- A4 - AU Tax Invoice (INV)	Email	molly.hoak@senversa.com.au
- Chain of Custody (CoC) (COC)	Email	molly.hoak@senversa.com.au
- EDI Format - ENMRG (ENMRG)	Email	molly.hoak@senversa.com.au
- EDI Format - ESDAT (ESDAT)	Email	molly.hoak@senversa.com.au

SUPPLIER ACCOUNTS

- A4 - AU Tax Invoice (INV)	Email	supplieraccounts@senversa.com.au

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Chain of Custody Documentation

Senversa Pty Ltd
www.senversa.com.au
ABN 89 132 231 380

Laboratory: mgt/Eurofins VIC
Address: 6 Monterey Road, Dandenong South, VIC 3175
Contact: Harry Bacalis/Sample Log In
Phone: 03 9564 7055

Job Number:	M18310	**Purchase Order:**	
Project Name:	Elwood HHRA	**Quote No:**	
Sampled By:	Molly Hoak	**Turn Around Time:**	[redacted]
Project Manager:	Katie Richardson	**Page:**	1 of 1
Email Report To:	molly.hoak@senversa.com.au	**Phone/Mobile:**	0438 255 132

Sample Information					Container Information		Analysis Required		
Lab ID	Sample ID	Matrix*	Date	Time	Type / Code	Total Bottles	Polynuclear Aromatic Hydrocarbons (PAH)	HOLD	Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
	SB01_0.1-0.2	SOIL	8/12/2020		Jar	1		X	
	SB01_0.45	SOIL	8/12/2020		Jar	1	X		
	SB02_0.0-0.1	SOIL	8/12/2020		Jar	1		X	
	SB02_0.4	SOIL	8/12/2020		Jar	1	X		
	SB03_0.1	SOIL	8/12/2020		Jar	1	X		
	SB03_0.4	SOIL	8/12/2020		Jar	1	X		
	SB04_0.1	SOIL	8/12/2020		Jar	1	X		
	SB04_0.4	SOIL	8/12/2020		Jar	1	X		
	SB04_0.5	SOIL	8/12/2020		Jar	1		X	
	SB05_0.1	SOIL	8/12/2020		Jar	1	X		
	SB05_0.5	SOIL	8/12/2020		Jar	1	X		
	SB06_0.1	SOIL	8/12/2020		Jar	1		X	
	SB06_0.48	SOIL	8/12/2020		Jar	1	X		
	SB06_0.7-0.8	SOIL	8/12/2020		Jar	1		X	
	SB06_0.9-1.0	SOIL	8/12/2020		Jar	1		X	
	QC01	SOIL	8/12/2020		Jar	1	X		
	QC02	SOIL	8/12/2020		Jar	1	X		Please forward to ALS
Total						17			

Environmental Division
Melbourne
Work Order Reference
EM2021988
Telephone : + 61-3-8549 9600

Date/Time:
Chilled: Yes / No
Temp:
Correction:
Final Temp:

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples: | **Sampler Name:** Molly Hoak | **Signature:** | **Date:** 9/12/2020

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature: Cana Ng	Date: 9/12/20
Of:	Time:	Date/Time:	Of: Eurofins	Time: 3.50pm
Name/Signature: Cana Ng	Date: 10/12/20	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time: 8am	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic;
V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic;
F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Received: Colin
Carrier:
C/note:
Temp: 6.2°C Seal: Y N
Ice / Icebricks / NA

Completed by: ________
Checked by: ________

M18310_HHRA_COC

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EM2100608**	Page	: 1 of 6
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: KATIE RICHARDSON	Contact	: Peter Ravlic
Address	: Level 6, 15 William St Melbourne VICTORIA, AUSTRALIA 3000	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +6138549 9645
Project	: M18310	Date Samples Received	: 18-Jan-2021 09:30
Order number	: ----	Date Analysis Commenced	: 20-Jan-2021
C-O-C number	: ----	Issue Date	: 22-Jan-2021 15:26
Sampler	: MH		
Site	: ----		
Quote number	: EN/333 (secondary work only)		
No. of samples received	: 3		
No. of samples analysed	: 3		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

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

Signatories	*Position*	*Accreditation Category*
Arenie Vijayaratnam	Non-Metals Team Leader	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

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

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

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

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

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	QC06	QC02	QC04	----	----
			Sampling date / time	13-Jan-2021 00:00	12-Jan-2021 00:00	13-Jan-2021 00:00	----	----
Compound	CAS Number	LOR	Unit	EM2100608-001	EM2100608-002	EM2100608-003	--------	--------
				Result	Result	Result	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**15.4**	**8.1**	**6.3**	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	**17**	**16**	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg	**14**	**20**	**15**	----	----
Copper	7440-50-8	5	mg/kg	**20**	**15**	**79**	----	----
Lead	7439-92-1	5	mg/kg	**104**	**81**	**340**	----	----
Nickel	7440-02-0	2	mg/kg	**11**	**15**	**23**	----	----
Zinc	7440-66-6	5	mg/kg	**112**	**87**	**494**	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	**0.2**	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	**0.6**	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg	**0.5**	**2.3**	**2.6**	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	**0.7**	**0.9**	----	----
Fluoranthene	206-44-0	0.5	mg/kg	**1.7**	**5.2**	**7.6**	----	----
Pyrene	129-00-0	0.5	mg/kg	**1.9**	**5.4**	**7.9**	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	**1.0**	**2.7**	**4.1**	----	----
Chrysene	218-01-9	0.5	mg/kg	**0.9**	**2.5**	**4.2**	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	**1.4**	**4.1**	**8.0**	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	**1.3**	**2.5**	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	**1.2**	**3.6**	**7.1**	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	**0.6**	**1.9**	**4.2**	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	**1.0**	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	**0.8**	**2.5**	**5.7**	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	**10.0**	**32.2**	**56.4**	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	**1.5**	**4.6**	**10.1**	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**1.8**	**4.9**	**10.1**	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**2.1**	**5.2**	**10.1**	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC06	QC02	QC04	----	----
				Sampling date / time	13-Jan-2021 00:00	12-Jan-2021 00:00	13-Jan-2021 00:00	----	----
Compound	CAS Number	LOR	Unit		EM2100608-001	EM2100608-002	EM2100608-003	--------	--------
					Result	Result	Result	----	----
EP080/071: Total Petroleum Hydrocarbons - Continued									
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	170	280	----	----
C29 - C36 Fraction	----	100	mg/kg		110	180	340	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		110	350	620	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	----	----
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	----	----
>C16 - C34 Fraction	----	100	mg/kg		160	310	540	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	170	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		160	310	710	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		92.3	91.3	94.2	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		94.4	94.8	97.4	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		80.0	82.0	88.1	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		107	108	111	----	----
Anthracene-d10	1719-06-8	0.5	%		114	112	115	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		108	101	102	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		76.1	79.7	78.1	----	----
Toluene-D8	2037-26-5	0.2	%		80.6	83.6	82.2	----	----

Analytical Results

Sub-Matrix: **SOIL** (Matrix: **SOIL**)				Sample ID	QC06	QC02	QC04	----	----
				Sampling date / time	13-Jan-2021 00:00	12-Jan-2021 00:00	13-Jan-2021 00:00	----	----
Compound	*CAS Number*	*LOR*	*Unit*		**EM2100608-001**	**EM2100608-002**	**EM2100608-003**	--------	--------
					Result	Result	Result	----	----
EP080S: TPH(V)/BTEX Surrogates - Continued									
4-Bromofluorobenzene	460-00-4	0.2	%		**106**	**107**	**105**	**----**	**----**

Surrogate Control Limits

Sub-Matrix: **SOIL**

Compound	CAS Number	Recovery Limits (%) Low	High
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	54	125
2-Chlorophenol-D4	93951-73-6	65	123
2.4.6-Tribromophenol	118-79-6	34	122
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	61	125
Anthracene-d10	1719-06-8	62	130
4-Terphenyl-d14	1718-51-0	67	133
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	51	125
Toluene-D8	2037-26-5	55	125
4-Bromofluorobenzene	460-00-4	56	124

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EM2100608**	Page	: 1 of 7
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: KATIE RICHARDSON	Contact	: Peter Ravlic
Address	: Level 6, 15 William St Melbourne VICTORIA, AUSTRALIA 3000	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +6138549 9645
Project	: M18310	Date Samples Received	: 18-Jan-2021
Order number	: ----	Date Analysis Commenced	: 20-Jan-2021
C-O-C number	: ----	Issue Date	: 22-Jan-2021
Sampler	: MH		
Site	: ----		
Quote number	: EN/333 (secondary work only)		
No. of samples received	: 3		
No. of samples analysed	: 3		

ilac-MRA NATA
Accreditation No. 825
Accredited for compliance with ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

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

Signatories	*Position*	*Accreditation Category*
Arenie Vijayaratnam	Non-Metals Team Leader	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

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

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

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 3470571)									
EM2100584-008	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	1	<1	0.00	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	108	95	12.1	0% - 20%
		EG005T: Nickel	7440-02-0	2	mg/kg	6	6	0.00	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	14	13	0.00	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	13	12	0.00	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	132	122	8.25	0% - 20%
EM2100608-003	QC04	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	15	16	0.00	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	23	26	11.8	0% - 50%
		EG005T: Arsenic	7440-38-2	5	mg/kg	16	15	7.94	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	79	82	4.47	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	340	382	11.4	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	494	504	1.96	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 3473029)									
EM2100594-001	Anonymous	EA055: Moisture Content	----	0.1	%	4.2	4.4	5.10	No Limit
EM2100608-002	QC02	EA055: Moisture Content	----	0.1	%	8.1	9.1	11.3	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 3470572)									
EM2100584-008	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	2.1	2.3	11.5	0% - 20%
EM2100608-003	QC04	EG035T: Mercury	7439-97-6	0.1	mg/kg	0.2	0.2	0.00	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 3472210)									
EM2100564-003	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 3472210) - continued									
EM2100564-003	Anonymous	EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EM2100584-008	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	1.2	1.5	22.4	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 3469752)									
EM2100564-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.00	No Limit
EM2100608-001	QC06	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 3472211)									
EM2100564-003	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
		EP071: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.00	No Limit
EM2100584-008	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 3472211) - continued									
EM2100584-008	Anonymous	EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
		EP071: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 3469752)									
EM2100564-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.00	No Limit
EM2100608-001	QC06	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 3472211)									
EM2100564-003	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
		EP071: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.00	No Limit
EM2100584-008	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
		EP071: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.00	No Limit
EP080: BTEXN (QC Lot: 3469752)									
EM2100564-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit
EM2100608-001	QC06	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 3470571)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	96.6	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	53.1	50.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	106	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	94.7	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	95.3	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	103	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	77.4	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 3470572)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.5 mg/kg	123	70.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 3472210)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	3 mg/kg	113	85.7	123
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	3 mg/kg	107	81.0	123
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	3 mg/kg	106	83.6	120
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	3 mg/kg	103	81.3	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	3 mg/kg	108	79.4	123
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	3 mg/kg	112	81.7	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	3 mg/kg	108	78.3	124
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	3 mg/kg	111	79.9	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	3 mg/kg	106	76.9	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	3 mg/kg	109	80.9	130
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	3 mg/kg	96.9	70.0	121
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	3 mg/kg	108	80.4	130
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	3 mg/kg	98.0	70.2	123
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	3 mg/kg	95.6	67.9	122
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	3 mg/kg	95.8	65.8	123
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	3 mg/kg	98.3	65.8	127
EP080/071: Total Petroleum Hydrocarbons (QCLot: 3469752)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	36 mg/kg	108	58.6	131
EP080/071: Total Petroleum Hydrocarbons (QCLot: 3472211)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	900 mg/kg	98.4	75.0	128
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	3030 mg/kg	104	82.0	123
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	1520 mg/kg	102	82.4	121
EP071: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 3469752)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	45 mg/kg	104	59.3	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 3472211)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	1160 mg/kg	109	77.0	130
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	4020 mg/kg	100	81.5	120
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	280 mg/kg	108	73.3	137
EP071: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP080: BTEXN (QCLot: 3469752)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	2 mg/kg	95.0	61.6	117
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	2 mg/kg	105	65.8	125
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2 mg/kg	104	65.8	124
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4 mg/kg	117	64.8	134
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2 mg/kg	115	68.7	132
EP080: Naphthalene	91-20-3	1	mg/kg	<1	0.5 mg/kg	86.6	61.8	123

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Recovery Limits (%): Low	Recovery Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 3470571)							
EM2100584-009	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	95.6	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	86.8	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	95.3	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	109	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	90.4	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	82.6	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	92.7	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 3470572)							
EM2100584-009	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	112	76.0	116
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 3472210)							
EM2100564-005	Anonymous	EP075(SIM): Acenaphthene	83-32-9	3 mg/kg	102	77.2	116
		EP075(SIM): Pyrene	129-00-0	3 mg/kg	110	65.5	136
EP080/071: Total Petroleum Hydrocarbons (QCLot: 3469752)							
EM2100564-004	Anonymous	EP080: C6 - C9 Fraction	----	28 mg/kg	86.1	33.4	124

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP080/071: Total Petroleum Hydrocarbons (QCLot: 3472211)							
EM2100564-009	Anonymous	EP071: C10 - C14 Fraction	----	900 mg/kg	95.0	71.2	125
		EP071: C15 - C28 Fraction	----	3030 mg/kg	99.2	75.6	122
		EP071: C29 - C36 Fraction	----	1520 mg/kg	96.8	78.0	120
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 3469752)							
EM2100564-004	Anonymous	EP080: C6 - C10 Fraction	C6_C10	33 mg/kg	84.4	30.8	120
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 3472211)							
EM2100564-009	Anonymous	EP071: >C10 - C16 Fraction	----	1160 mg/kg	105	72.2	128
		EP071: >C16 - C34 Fraction	----	4020 mg/kg	95.5	76.5	119
		EP071: >C34 - C40 Fraction	----	280 mg/kg	99.2	66.8	138
EP080: BTEXN (QCLot: 3469752)							
EM2100564-004	Anonymous	EP080: Benzene	71-43-2	2 mg/kg	88.3	54.4	127
		EP080: Toluene	108-88-3	2 mg/kg	97.0	57.1	131

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2100608**	Page	: 1 of 5
Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: KATIE RICHARDSON	Telephone	: +6138549 9645
Project	: M18310	Date Samples Received	: 18-Jan-2021
Site	: ----	Issue Date	: 22-Jan-2021
Sampler	: MH	No. of samples received	: 3
Order number	: ----	No. of samples analysed	: 3

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055) QC02	**12-Jan-2021**	**----**	----	----	**21-Jan-2021**	26-Jan-2021	✓
Soil Glass Jar - Unpreserved (EA055) QC06, QC04	**13-Jan-2021**	**----**	----	----	**21-Jan-2021**	27-Jan-2021	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) QC02	**12-Jan-2021**	**21-Jan-2021**	11-Jul-2021	✓	**21-Jan-2021**	11-Jul-2021	✓
Soil Glass Jar - Unpreserved (EG005T) QC06, QC04	**13-Jan-2021**	**21-Jan-2021**	12-Jul-2021	✓	**21-Jan-2021**	12-Jul-2021	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T) QC02	**12-Jan-2021**	**21-Jan-2021**	09-Feb-2021	✓	**21-Jan-2021**	09-Feb-2021	✓
Soil Glass Jar - Unpreserved (EG035T) QC06, QC04	**13-Jan-2021**	**21-Jan-2021**	10-Feb-2021	✓	**21-Jan-2021**	10-Feb-2021	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM)) QC02	**12-Jan-2021**	**21-Jan-2021**	26-Jan-2021	✓	**21-Jan-2021**	02-Mar-2021	✓
Soil Glass Jar - Unpreserved (EP075(SIM)) QC06, QC04	**13-Jan-2021**	**21-Jan-2021**	27-Jan-2021	✓	**21-Jan-2021**	02-Mar-2021	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080) QC02	**12-Jan-2021**	**20-Jan-2021**	26-Jan-2021	✓	**20-Jan-2021**	26-Jan-2021	✓
Soil Glass Jar - Unpreserved (EP071) QC02	**12-Jan-2021**	**21-Jan-2021**	26-Jan-2021	✓	**21-Jan-2021**	02-Mar-2021	✓
Soil Glass Jar - Unpreserved (EP080) QC06, QC04	**13-Jan-2021**	**20-Jan-2021**	27-Jan-2021	✓	**20-Jan-2021**	27-Jan-2021	✓
Soil Glass Jar - Unpreserved (EP071) QC06, QC04	**13-Jan-2021**	**21-Jan-2021**	27-Jan-2021	✓	**21-Jan-2021**	02-Mar-2021	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080) QC02	**12-Jan-2021**	**20-Jan-2021**	26-Jan-2021	✓	**20-Jan-2021**	26-Jan-2021	✓
Soil Glass Jar - Unpreserved (EP071) QC02	**12-Jan-2021**	**21-Jan-2021**	26-Jan-2021	✓	**21-Jan-2021**	02-Mar-2021	✓
Soil Glass Jar - Unpreserved (EP080) QC06, QC04	**13-Jan-2021**	**20-Jan-2021**	27-Jan-2021	✓	**20-Jan-2021**	27-Jan-2021	✓
Soil Glass Jar - Unpreserved (EP071) QC06, QC04	**13-Jan-2021**	**21-Jan-2021**	27-Jan-2021	✓	**21-Jan-2021**	02-Mar-2021	✓
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080) QC02	**12-Jan-2021**	**20-Jan-2021**	26-Jan-2021	✓	**20-Jan-2021**	26-Jan-2021	✓
Soil Glass Jar - Unpreserved (EP080) QC06, QC04	**13-Jan-2021**	**20-Jan-2021**	27-Jan-2021	✓	**20-Jan-2021**	27-Jan-2021	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	17	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	17	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to AS 3550, APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EM2100608**

Client	: **SENVERSA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: KATIE RICHARDSON	Contact	: Peter Ravlic
Address	: Level 6, 15 William St Melbourne VICTORIA, AUSTRALIA 3000	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: katie.richardson@senversa.com.au	E-mail	: peter.ravlic@alsglobal.com
Telephone	: ----	Telephone	: +6138549 9645
Facsimile	: ----	Facsimile	: +61-3-8549 9626
Project	: M18310	Page	: 1 of 2
Order number	: ----	Quote number	: EM2017SENVER0009 (EN/333 (secondary work only))
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: MH		

Dates

Date Samples Received	: 18-Jan-2021 09:30	Issue Date	: 19-Jan-2021
Client Requested Due Date	: 25-Jan-2021	Scheduled Reporting Date	: **25-Jan-2021**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 13.2°C - Ice Bricks present
Receipt Detail	:	No. of samples received / analysed	: 3 / 3

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please direct any queries related to sample condition / numbering / breakages to Client Services.**
- Sample Disposal - Aqueous (3 weeks), Solid (2 months) from receipt of samples.
- **Analytical work for this work order will be conducted at ALS Springvale.**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EA055-103 Moisture Content	SOIL - S-26 8 metals/TRH/BTEXN/PAH
EM2100608-001	13-Jan-2021 00:00	QC06	✓	✓
EM2100608-002	12-Jan-2021 00:00	QC02	✓	✓
EM2100608-003	13-Jan-2021 00:00	QC04	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

KATIE RICHARDSON

- *AU Certificate of Analysis - NATA (COA)	Email	katie.richardson@senversa.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	katie.richardson@senversa.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	katie.richardson@senversa.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	katie.richardson@senversa.com.au
- A4 - AU Tax Invoice (INV)	Email	katie.richardson@senversa.com.au
- Chain of Custody (CoC) (COC)	Email	katie.richardson@senversa.com.au
- EDI Format - ENMRG (ENMRG)	Email	katie.richardson@senversa.com.au
- EDI Format - ESDAT (ESDAT)	Email	katie.richardson@senversa.com.au

MOLLY HOAK

- *AU Certificate of Analysis - NATA (COA)	Email	molly.hoak@senversa.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	molly.hoak@senversa.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	molly.hoak@senversa.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	molly.hoak@senversa.com.au
- Chain of Custody (CoC) (COC)	Email	molly.hoak@senversa.com.au
- EDI Format - ENMRG (ENMRG)	Email	molly.hoak@senversa.com.au
- EDI Format - ESDAT (ESDAT)	Email	molly.hoak@senversa.com.au

SUPPLIER ACCOUNTS

- A4 - AU Tax Invoice (INV)	Email	supplieraccounts@senversa.com.au

Received: 18/1 9:30 Carrier: ——
C/note:
Temp: 13.2 °C Seal: Y (N)
Ice / (Icebricks) / NA

ALS

senversa

Chain of Custody Documentation

Senversa Pty Ltd
www.senversa.com.au
ABN 89 132 231 380

Laboratory: mgt/Eurofins VIC
Address: 6 Monterey Road, Dandenong South, VIC 3175
Contact: Harry Bacalis/Sample Log In
Phone: 03 9564 7055

Job Number:	M18310	**Purchase Order:**	
Project Name:	Elwood DSI	**Quote No:**	
Sampled By:	Molly Hoak	**Turn Around Time:**	Standard
Project Manager:	Katie Richardson	**Page:**	3 of 4
Email Report To:	molly.hoak@senversa.com.au	**Phone/Mobile:**	0438 255 132

Analysis Required

Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	R1: Vic EPA IWRG 621 (exc. CrVI)	B7:TRH, BTEXN, PAH, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)	B20: Cation Exchange Capacity	L2: Soil Aggresivity Suite (pH, EC, Cl, resistivity, SO4)	Asbestos in Building Material						HOLD	Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
	QC05	SOIL	13/01/2021		Jar	1		X										
1	QC06	SOIL	13/01/2021		Jar	1		X										Please forward to ALS
Total						2		2										

Environmental Division
Melbourne
Work Order Reference
EM2100608

Telephone : + 61-3-8549 9600

(9)

Relinquished
@ 8:00a
18/1

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:	**Sampler Name:** Molly Hoak	**Signature:** [signature]	**Date:** 14/01/2021

Relinquished By:		**Method of Shipment (if applicable):**	**Received by:**	
Name/Signature: [signature]	Date: 14/1/21	Carrier / Reference #:	Name/Signature: [signature]	Date:
Of: Senversa	Time: 3:45pm	Date/Time:	Of:	Time:
Name/Signature: [signature]	Date: 18/1/21	Carrier / Reference #:	Name/Signature:	Date:
Of: EF	Time: 7:30	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's Iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: ________
Checked by:

senversa

Chain of Custody Documentation

Senversa Pty Ltd
www.senversa.com.au
ABN 89 132 231 380

Laboratory: mgt/Eurofins VIC
Address: 6 Monterey Road, Dandenong South, VIC 3175
Contact: Harry Bacalis/Sample Log In
Phone: 03 9564 7055

Job Number:	M18310	**Purchase Order:**	
Project Name:	Elwood DSI	**Quote No:**	
Sampled By:	Molly Hoak	**Turn Around Time:**	Standard
Project Manager:	Katie Richardson	**Page:**	3 of 4
Email Report To:	molly.hoak@senversa.com.au	**Phone/Mobile:**	0438 255 132

Sample Information					Container Information		Analysis Required											
Lab ID	Sample ID	Matrix *	Date	Time	Type / Code	Total Bottles	R1: Vic EPA IWRG 621 (exc. CrVI)	B7:TRH, BTEXN, PAH, Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg)	B20: Cation Exchange Capacity	L2: Soil Aggresivity Suite (pH, EC, Cl, resistivity, SO4)	Asbestos in Building Material						HOLD	Comments: e.g. Highly contaminated sample; hazardous materials present; trace LORs etc.
	SB30_0.3-0.4	SOIL	12/01/2021		Jar	1		X										
	SB31_0.1-0.2	SOIL	13/01/2021		Jar	1		X										
	SB31_0.4-0.5	SOIL	13/01/2021		Jar	1											X	
	SB32_0.05-0.15	SOIL	13/01/2021		Jar	1	X											
	SB33_0.1-0.2	SOIL	12/01/2021		Jar	1		X										
	SB34_0.1-0.2	SOIL	13/01/2021		Jar	1		X	X									
	SB34_0.4-0.5	SOIL	13/01/2021		Jar	1	X											
	SB35_0.1-0.2	SOIL	12/01/2021		Jar	1	X											
	SB35_0.4-0.5	SOIL	12/01/2021		Jar	1											X	
	SB36_0.1-0.2	SOIL	12/01/2021		Jar	1		X										
	SB36_0.4-0.5	SOIL	12/01/2021		Jar	1		X										
	SB37_0.1-0.2	SOIL	12/01/2021		Jar	1		X		X								
	SB37_0.5-0.6	SOIL	12/01/2021		Jar	1		X										
	SB38_0.1-0.2	SOIL	12/01/2021		Jar	1	X											
	SB38_0.3-0.4	SOIL	12/01/2021		Jar	1											X	
	QC01	SOIL	12/01/2021		Jar	1		X										
2	QC02	SOIL	12/01/2021		Jar	1		X										
	QC03	SOIL	13/01/2021		Jar	1		X										
3	QC04	SOIL	13/01/2021		Jar	1		X										
	QC05	SOIL	13/01/2021		Jar	1		X										
Total						20	4	13	1	1								

6

relinquished by BL 18:00 18/1

Please forward to ALS

Please forward to ALS

Sampler: I attest that proper field sampling procedures in accordance with Senversa standard procedures and/or project specifications were used during the collection of these samples:

Sampler Name: Molly Hoak **Signature:** **Date:** 14/01/2021

Relinquished By:		Method of Shipment (if applicable):	Received by:	
Name/Signature: Molly Hoak	Date: 14/1/21	Carrier / Reference #:	Name/Signature:	Date:
Of: Senversa	Time: 3:45pm	Date/Time:	Of:	Time:
Name/Signature: Joann	Date: 18/1/21	Carrier / Reference #:	Name/Signature:	Date:
Of: EF	Time: 7:30am	Date/Time:	Of:	Time:
Name/Signature:	Date:	Carrier / Reference #:	Name/Signature:	Date:
Of:	Time:	Date/Time:	Of:	Time:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Acid (HNO_3) Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide (NaOH)/Cadmium (Cd) Preserved; S = Sodium Hydroxide Preserved Plastic; STH = Sodium thiosulfate preserved plastic; V = VOA Vial Hydochloric Acid (HCl) Preserved; VS = VOA Vial Sulphuric Preserved; VSA = Sulphuric Preserved Amber Glass; H = HCl Preserved Plastic; HS = HCl Preserved Speciation Bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; UA = Unpreserved Amber Glass; L=Lugol's Iodine preserved white plastic bottle; SW= sulfuric acid preserved wide mouth glass jar

Completed by: _____
Checked by:

Chain of Custody Record

(modified after US EPA chain of custody form)

Sheet 1 of 1

Atma *Environmental*

PROJECT: Elwood

Sampler's Signature: [signature]

Sampler's Name: Kye O'Brien

Site No: 1865B

DATE: 150720

Time:

SAMPLE NO.	DISCRETE	COMPOSITE	GRAB	SOIL	WATER	BLANK / ___	Hold	Asbestos MIT	PAH								NO. of CONTAINERS	HIGH CONTAM EXPECTED	COMPOSITING INSTRUCTIONS:
MW01/0.1				X			X												
MW01/0.5				X			X												
MW01/1.0				X			X												
MW01/2.5				X			X												
MW02/0.1				X			X												
MW02/0.5				X			X												
MW02/1.0				X			X												
MW03/0.1				X				X	X										
MW03/0.5				X				X	X										
MW03/1.0				X			X												
DECON-150720							X												
FIELD-150720							X												
TRIP-150720							X												
TOTAL:																			

DISPATCHED BY: (sign) [signature] (DATE/TIME) △

■ RECEIVED BY: (sign) Joanne (DATE/TIME) 16/7/20 3:31pm

Ice cool 2.7°

COURIERED BY: (sign) 7 (DATE/TIME)

LAB NAME:

INITIAL RESULTS REQUESTED WITHIN: 24Hrs 48Hrs 3 - 4 DAYS **NORMAL**

REMARKS: **Please email completed COC, Sample Receipt Notification, results and invoices to:**

Please email results to: gberry@atmaenvironmental.com kobrien@atmaenvironmental.com

*12 Metals: As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Mo, Se, Ag, Sn

NOTE: △ Must be completed by Atma Environmental ■ Must be completed with date and time by laboratory.

732271

Jake

eurofins | Environment Testing

Melbourne
6 Monterey Road
Dandenong South Vic 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261 Site # 23736

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

Company name:	**Atma Environmental**
Contact name:	Kyle Obrien
Project name:	ELWOOD
Project ID:	186SB
COC number:	Not provided
Turn around time:	5 Day
Date/Time received:	Jul 16, 2020 3:31 PM
Eurofins reference:	**732271**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Appropriate sample containers have been used.

☑ Sample containers for volatile analysis received with zero headspace.

☒ Split sample sent to requested external lab.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

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

Savini Suduweli on Phone : or by e.mail: SaviniSuduweli@eurofins.com

Results will be delivered electronically via e.mail to Kyle Obrien - kobrien@atmaenvironmental.com.

eurofins | Environment Testing

Certificate of Analysis

Atma Environmental
56 William St
Abbotsford
VIC 3067

Attention: **Kyle Obrien**

Report **732271-S**
Project name ELWOOD
Project ID 186SB
Received Date Jul 16, 2020

Client Sample ID			**MW03/0.1**	**MW03/0.5**
Sample Matrix			**Soil**	**Soil**
Eurofins Sample No.			**M20-JI27275**	**M20-JI27276**
Date Sampled			**Jul 15, 2020**	**Jul 15, 2020**
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	49	1.3
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	49	1.5
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	49	1.8
Acenaphthene	0.5	mg/kg	0.7	< 0.5
Acenaphthylene	0.5	mg/kg	4.2	< 0.5
Anthracene	0.5	mg/kg	11	< 0.5
Benz(a)anthracene	0.5	mg/kg	33	0.8
Benzo(a)pyrene	0.5	mg/kg	34	1.0
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	26	0.7
Benzo(g.h.i)perylene	0.5	mg/kg	19	0.5
Benzo(k)fluoranthene	0.5	mg/kg	29	0.9
Chrysene	0.5	mg/kg	28	1.0
Dibenz(a.h)anthracene	0.5	mg/kg	4.2	< 0.5
Fluoranthene	0.5	mg/kg	60	2.0
Fluorene	0.5	mg/kg	2.9	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	16	< 0.5
Naphthalene	0.5	mg/kg	0.6	< 0.5
Phenanthrene	0.5	mg/kg	42	< 0.5
Pyrene	0.5	mg/kg	62	2.2
Total PAH*	0.5	mg/kg	372.6	9.1
2-Fluorobiphenyl (surr.)	1	%	65	52
p-Terphenyl-d14 (surr.)	1	%	68	61
Heavy Metals				
Arsenic	2	mg/kg	11	7.1
Barium	10	mg/kg	77	26
Beryllium	2	mg/kg	< 2	< 2
Boron	10	mg/kg	< 10	19
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	27	15
Cobalt	5	mg/kg	19	< 5
Copper	5	mg/kg	31	8.9
Lead	5	mg/kg	87	60
Manganese	5	mg/kg	350	54
Mercury	0.1	mg/kg	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5

Client Sample ID			MW03/0.1	MW03/0.5
Sample Matrix			Soil	Soil
Eurofins Sample No.			M20-JI27275	M20-JI27276
Date Sampled			Jul 15, 2020	Jul 15, 2020
Test/Reference	LOR	Unit		
Heavy Metals				
Nickel	5	mg/kg	70	8.2
Selenium	2	mg/kg	< 2	< 2
Silver	0.2	mg/kg	0.2	< 0.2
Tin	10	mg/kg	20	< 10
Zinc	5	mg/kg	130	44
% Moisture	1	%	6.4	12

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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
Polycyclic Aromatic Hydrocarbons	Melbourne	Jul 17, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
VIC EPA Metals : Metals M17	Melbourne	Jul 17, 2020	180 Days
- Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)			
% Moisture	Melbourne	Jul 16, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			

eurofins | Environment Testing

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Australia

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Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
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Kewdale WA 6105
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NATA # 1261
Site # 23736

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Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: Atma Environmental
Address: 56 William St
Abbotsford
VIC 3067

Project Name: ELWOOD
Project ID: 186SB

Order No.:
Report #: 732271
Phone: 9429 6955
Fax: 9429 5911

Received: Jul 16, 2020 3:31 PM
Due: Jul 21, 2020
Priority: 5 Day
Contact Name: Kyle Obrien

Eurofins Analytical Services Manager : Savini Suduweli

Sample Detail						HOLD	Polycyclic Aromatic Hydrocarbons	VIC EPA Metals : Metals M17	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X
Sydney Laboratory - NATA Site # 18217									
Brisbane Laboratory - NATA Site # 20794									
Perth Laboratory - NATA Site # 23736									
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	MW03/0.1	Jul 15, 2020		Soil	M20-Jl27275		X	X	X
2	MW03/0.5	Jul 15, 2020		Soil	M20-Jl27276		X	X	X
3	MW01/0.1	Jul 15, 2020		Soil	M20-Jl27277	X			
4	MW01/0.5	Jul 15, 2020		Soil	M20-Jl27278	X			
5	MW01/1.0	Jul 15, 2020		Soil	M20-Jl27279	X			
6	MW01/2.5	Jul 15, 2020		Soil	M20-Jl27280	X			
7	MW02/0.1	Jul 15, 2020		Soil	M20-Jl27281	X			
8	MW02/0.5	Jul 15, 2020		Soil	M20-Jl27282	X			
9	MW02/1.0	Jul 15, 2020		Soil	M20-Jl27283	X			
10	MW03/1.0	Jul 15, 2020		Soil	M20-Jl27284	X			

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Rolleston, Christchurch 7675
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Sample Detail						HOLD	Polycyclic Aromatic Hydrocarbons	VIC EPA Metals : Metals M17	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X
Sydney Laboratory - NATA Site # 18217									
Brisbane Laboratory - NATA Site # 20794									
Perth Laboratory - NATA Site # 23736									
11	DECON-150720	Jul 15, 2020		Water	M20-JI27285	X			
12	FIELD-150720	Jul 15, 2020		Water	M20-JI27286	X			
13	TRIP-150720	Jul 15, 2020		Water	M20-JI27287	X			
Test Counts						11	2	2	2

eurofins | Environment Testing

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.

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

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 5.3
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

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

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 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate 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							
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	
Barium	mg/kg	< 10			10	Pass	
Beryllium	mg/kg	< 2			2	Pass	
Boron	mg/kg	< 10			10	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Cobalt	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Manganese	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Molybdenum	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Silver	mg/kg	< 0.2			0.2	Pass	
Tin	mg/kg	< 10			10	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	99			70-130	Pass	
Acenaphthylene	%	105			70-130	Pass	
Anthracene	%	95			70-130	Pass	
Benz(a)anthracene	%	109			70-130	Pass	
Benzo(a)pyrene	%	95			70-130	Pass	
Benzo(b&j)fluoranthene	%	95			70-130	Pass	
Benzo(g.h.i)perylene	%	83			70-130	Pass	
Benzo(k)fluoranthene	%	101			70-130	Pass	
Chrysene	%	107			70-130	Pass	
Dibenz(a.h)anthracene	%	72			70-130	Pass	
Fluoranthene	%	95			70-130	Pass	
Fluorene	%	119			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	88			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naphthalene	%	88			70-130	Pass	
Phenanthrene	%	98			70-130	Pass	
Pyrene	%	93			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	109			80-120	Pass	
Barium	%	108			80-120	Pass	
Beryllium	%	89			80-120	Pass	
Boron	%	96			80-120	Pass	
Cadmium	%	97			80-120	Pass	
Chromium	%	119			80-120	Pass	
Cobalt	%	118			80-120	Pass	
Copper	%	118			80-120	Pass	
Lead	%	120			80-120	Pass	
Manganese	%	114			80-120	Pass	
Mercury	%	104			75-125	Pass	
Molybdenum	%	109			80-120	Pass	
Nickel	%	110			80-120	Pass	
Selenium	%	113			80-120	Pass	
Silver	%	99			80-120	Pass	
Tin	%	107			80-120	Pass	
Zinc	%	111			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M20-Jl27465	NCP	%	98			70-130	Pass	
Acenaphthylene	M20-Jl27465	NCP	%	97			70-130	Pass	
Anthracene	M20-Jl27465	NCP	%	76			70-130	Pass	
Benz(a)anthracene	M20-Jl27465	NCP	%	77			70-130	Pass	
Benzo(b&j)fluoranthene	M20-Jl27465	NCP	%	78			70-130	Pass	
Benzo(g.h.i)perylene	M20-Jl27465	NCP	%	74			70-130	Pass	
Chrysene	M20-Jl27465	NCP	%	115			70-130	Pass	
Dibenz(a.h)anthracene	M20-Jl27465	NCP	%	84			70-130	Pass	
Fluorene	M20-Jl27465	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M20-Jl27254	NCP	%	105			75-125	Pass	
Barium	M20-Jl27254	NCP	%	116			75-125	Pass	
Beryllium	M20-Jl27254	NCP	%	78			75-125	Pass	
Boron	M20-Jl27254	NCP	%	93			75-125	Pass	
Cadmium	M20-Jl27254	NCP	%	102			75-125	Pass	
Chromium	M20-Jl27254	NCP	%	112			75-125	Pass	
Cobalt	M20-Jl27254	NCP	%	103			75-125	Pass	
Lead	M20-Jl27254	NCP	%	107			75-125	Pass	
Mercury	M20-Jl27254	NCP	%	102			70-130	Pass	
Molybdenum	M20-Jl27254	NCP	%	109			75-125	Pass	
Nickel	M20-Jl27254	NCP	%	102			75-125	Pass	
Selenium	M20-Jl27254	NCP	%	105			75-125	Pass	
Silver	M20-Jl27254	NCP	%	103			75-125	Pass	
Tin	M20-Jl27254	NCP	%	106			75-125	Pass	
Zinc	M20-Jl27254	NCP	%	115			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Jl25451	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Jl25451	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Jl25451	NCP	mg/kg	0.9	0.5	47	30%	Fail	Q15
Benz(a)anthracene	S20-Jl25451	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Jl25451	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Jl25451	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Jl25451	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Jl25451	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Jl25451	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Jl25451	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Jl25451	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Jl25451	NCP	mg/kg	4.0	2.9	30	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-Jl25451	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Jl25451	NCP	mg/kg	2.9	2.4	18	30%	Pass	
Phenanthrene	S20-Jl25451	NCP	mg/kg	3.3	3.2	4.0	30%	Pass	
Pyrene	S20-Jl25451	NCP	mg/kg	1.1	0.9	18	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M20-Jl27254	NCP	mg/kg	4.5	4.6	1.0	30%	Pass	
Barium	M20-Jl27254	NCP	mg/kg	67	66	2.0	30%	Pass	
Beryllium	M20-Jl27254	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M20-Jl27254	NCP	mg/kg	37	36	3.0	30%	Pass	
Cadmium	M20-Jl27254	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M20-Jl27254	NCP	mg/kg	15	15	<1	30%	Pass	
Cobalt	M20-Jl27254	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M20-Jl27254	NCP	mg/kg	16	16	<1	30%	Pass	
Lead	M20-Jl27254	NCP	mg/kg	34	35	1.0	30%	Pass	
Manganese	M20-Jl27254	NCP	mg/kg	170	170	2.0	30%	Pass	
Mercury	M20-Jl27254	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M20-Jl27254	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M20-Jl27254	NCP	mg/kg	7.5	7.4	1.0	30%	Pass	
Selenium	M20-Jl27254	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M20-Jl27254	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M20-Jl27254	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M20-Jl27254	NCP	mg/kg	57	57	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M20-Jl27252	NCP	%	10	10	<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
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

Savini Suduweli	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (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.

Chain of Custody Record

(modified after US EPA chain of custody form)

Sheet 1 of 5

Atma Environmental

PROJECT: **ELWOOD**

Sampler's Signature: [signature]

Sampler's Name: **K. O'BRIEN**

Site No: **1865B**

DATE: **16/07/2020**

Time: **17:30**

COMPOSITING INSTRUCTIONS:

	SAMPLE NO.	DISCRETE	COMPOSITE	GRAB	SAMPLE MATRIX: SOIL	WATER	BLANK /___	ANALYSIS FOR: R20 - NEPM SCREEN	M17 - METALS SUITE	PAHs	TRHs	L2- AGGRESSIVITY SUITE	pH - CaCl2	C.E.C.		HOLD AT LAB		NO. of CONTAINERS	HIGH CONTAM EXPECTED
1	BH1/0.1	X			X				X	X	X		X					1	
2	BH1/0.5	X			X											X		1	
3	BH02/0.1	X			X				X	X	X							1	
4	BH02/0.5	X			X											X		1	
5	BH02/1.0	X			X											X		1	
6	BH03/0.1	X			X			X										1	
7	BH03/0.5	X			X											X		1	
8	BH03/1.0	X			X											X		1	
9	BH4/0.1	X			X				X	X	X							1	
10	BH4/0.5	X			X											X		1	
11	BH05/0.1	X			X				X	X	X							1	
12	BH05/0.5	X			X											X		1	
13	BH05/1.0	X			X											X		1	
14	BH05/1.5	X			X											X		1	
15	BH6/0.1	X			X			X										1	
16	BH6/0.5	X			X											X		1	
17	BH07/0.1	X			X				X	X	X							1	
18	BH07/0.5	X			X											X		1	
19	BH07/1.0	X			X											X		1	
20	BH8/0.1	X			X				X	X	X							1	
21	BH8/0.5	X			X											X		1	
22	BH9/0.1	X			X				X	X	X							1	
23	BH9/0.5	X			X											X		1	
24	BH10/0.1	X			X				X	X	X			X				1	
25	BH10/0.5	X			X											X		1	
	TOTAL:																		

DISPATCHED BY: (sign) (DATE/TIME)

△

■ RECEIVED BY: (sign) (DATE/TIME)

COURIERED BY: (sign) (DATE/TIME)

KYLE OBRIEN

LAB NAME: **EUROFINS**

INITIAL RESULTS REQUESTED WITHIN: ~~24Hrs~~ ~~48Hrs~~ ~~3-4 DAYS~~ **NORMAL**

REMARKS: **Please email completed COC, Sample Receipt Notification, results and invoices to:**

Please email results to: gberry@atmaenvironmental.com kobrien@atmaenvironmental.com

732366

[signature] 16/7/20.

NOTE: △ Must be completed by Atma Environmental ■ Must be completed with date and time by laboratory.

Chain of Custody Record

(modified after US EPA chain of custody form)

Sheet 2 of 5

Atma *Environmental*

PROJECT: **ELWOOD**

Sampler's Signature: K O'Brien

Sampler's Name: **K. O'BRIEN**

Site No: **1865B** DATE: **16/07/2020** Time: **17:30**

SAMPLE NO.	DISCRETE	COMPOSITE	GRAB	SAMPLE MATRIX: SOIL	WATER	BLANK /____	ANALYSIS FOR: R20 - NEPM SCREEN	M17 - METALS SUITE	PAHs	TRHs	L2- AGGRESSIVITY SUITE	pH - CaCl2	C.E.C.		HOLD AT LAB		NO. of CONTAINERS	HIGH CONTAM EXPECTED	COMPOSITING INSTRUCTIONS:
BH11/0.1	X			X				X	X	X		X					1		
BH11/0.5	X			X											X		1		
BH12/0.1	X			X							X						1		
BH13/0.1	X			X				X	X	X		X					1		
BH13/0.5	X			X											X		1		
BH13/1.0	X			X											X		1		
BH13/1.5	X			X											X		1		
BH14/0.1	X			X				X	X	X							1		
BH14/0.5	X			X											X		1		
BH14/1.0	X			X											X		1		
BH14/1.5	X			X											X		1		
BH15/0.1	X			X				X	X	X							1		
BH15/0.5	X			X											X		1		
BH15/1.0	X			X											X		1		
BH16/0.1	X			X				X	X	X							1		
BH17/0.1	X			X				X	X	X		X					1		
BH17/0.5	X			X											X		1		
BH17/1.0	X			X											X		1		
BH18/0.1	X			X			X										1		
BH18/0.5	X			X											X		1		
BH18/1.0	X			X											X		1		
BH19/0.1	X			X			X										1		
BH19/0.5	X			X											X		1		
BH19/1.0	X			X											X		1		
BH20/0.1	X			X				X	X	X							1		
TOTAL:																			

DISPATCHED BY: (sign) (DATE/TIME)

△

RECEIVED BY: (sign) (DATE/TIME)

COURIERED BY: (sign) (DATE/TIME)

KYLE OBRIEN

LAB NAME: **EUROFINS**

INITIAL RESULTS REQUESTED WITHIN: ~~24Hrs~~ ~~48Hrs~~ ~~3 - 4 DAYS~~ **NORMAL**

REMARKS: **Please email completed COC, Sample Receipt Notification, results and invoices to:**

Please email results to: qberry@atmaenvironmental.com kobrien@atmaenvironmental.com

732366

16/7/20

NOTE: △ Must be completed by Atma Environmental ■ Must be completed with date and time by laboratory.

Chain of Custody Record

(modified after US EPA chain of custody form)

Sheet 3 of 5

Atma Environmental

PROJECT: **ELWOOD**

Sampler's Signature:

Sampler's Name: **K. O'BRIEN**

Site No: **1865B**

DATE: **16/07/2020**

Time: **17:30**

SAMPLE NO.	DISCRETE	COMPOSITE	GRAB	SAMPLE MATRIX: SOIL	WATER	BLANK /____	ANALYSIS FOR: R20 - NEPM SCREEN	M17 - METALS SUITE	PAHs	TRHs	L2- AGGRESSIVITY SUITE	pH - CaCl2	C.E.C.		HOLD AT LAB		NO. of CONTAINERS	HIGH CONTAM EXPECTED	COMPOSITING INSTRUCTIONS:
BH21/0.1	X			X				X	X	X							1		
BH21/0.5	X			X											X		1		
BH21/1.0	X			X											X		1		
BH22/0.1	X			X				X	X	X							1		
BH22/0.5	X			X											X		1		
BH22/1.0	X			X											X		1		
BH23/0.1	X			X				X	X	X		X	X				1		
BH23/0.5	X			X											X		1		
BH23/1.0	X			X											X		1		
BH24/0.1	X			X				X	X	X							1		
BH24/0.5	X			X											X		1		
BH25/0.1	X			X				X	X	X		X					1		
BH25/0.5	X			X											X		1		
BH25/1.0	X			X											X		1		
BH26/0.1	X			X				X	X	X							1		
BH26/0.5	X			X											X		1		
BH27/0.1	X			X				X	X	X	X						1		
BH27/0.5	X			X											X		1		
BH28/0.1	X			X				X	X	X							1		
BH28/0.5	X			X											X		1		
BH29/0.1	X			X				X	X	X							1		
BH29/0.5	X			X											X		1		
BH29/1.0	X			X											X		1		
BH30/0.1	X			X				X	X	X		X					1		
BH30/0.5	X			X											X		1		
TOTAL:																			

DISPATCHED BY: (sign) (DATE/TIME)

△

COURIERED BY: (sign) (DATE/TIME)

KYLE OBRIEN

■ RECEIVED BY: (sign) (DATE/TIME)

LAB NAME: **EUROFINS**

INITIAL RESULTS REQUESTED WITHIN: 24Hrs ~~48Hrs~~ ~~3 - 4 DAYS~~ **NORMAL**

REMARKS: **Please email completed COC, Sample Receipt Notification, results and invoices to:**

Please email results to: gberry@atmaenvironmental.com kobrien@atmaenvironmental.com

NOTE: △ Must be completed by Atma Environmental ■ Must be completed with date and time by laboratory.

Chain of Custody Record

(modified after US EPA chain of custody form)

Sheet 4 of 5

Atma Environmental

PROJECT: **ELWOOD**

Sampler's Signature:

Sampler's Name: **K. O'BRIEN**

Site No: **1865B**

DATE: **16/07/2020**

Time: **17:30**

SAMPLE NO.	DISCRETE	COMPOSITE	GRAB	SAMPLE MATRIX: SOIL	WATER	BLANK /____	ANALYSIS FOR: R20 - NEPM SCREEN	M17 - METALS SUITE	PAHs	TRHs	L2- AGGRESSIVITY SUITE	pH - CaCl2	C.E.C.		HOLD AT LAB		NO. of CONTAINERS	HIGH CONTAM EXPECTED	COMPOSITING INSTRUCTIONS:
BH31/0.1	X			X				X	X	X							1		
BH31/0.5	X			X											X		1		
BH31/1.0	X			X											X		1		
BH32/0.1	X			X				X	X	X	X	X					1		
BH32/0.5	X			X											X		1		
BH32/1.0	X			X											X		1		
BH32/1.5	X			X											X		1		
BH33/0.1	X			X				X	X	X							1		
BH33/0.5	X			X											X		1		
BH34/0.1	X			X				X	X	X			X				1		
BH34/0.5	X			X											X		1		
BH35/0.1	X			X				X	X	X							1		
BH35/0.5	X			X											X		1		
BH36/0.1	X			X				X	X	X			X				1		
BH36/0.5	X			X											X		1		
BH37/0.1	X			X				X	X	X							1		
BH37/0.5	X			X											X		1		
T1/0.1	X			X			X										1		
T1/0.5	X			X											X		1		
T1/1.0	X			X											X		1		
T2/0.1	X			X			X					X					1		
T2/0.5	X			X											X		1		
DUP140720A	X			X				X									1		
DUP140720B	X			X				X	X								1		
DUP140720C	X			X				X	X								1		
TOTAL:																			

DISPATCHED BY: (sign) (DATE/TIME)

△

■ RECEIVED BY: (sign) (DATE/TIME)

COURIERED BY: (sign) (DATE/TIME)

KYLE OBRIEN

LAB NAME: **EUROFINS**

INITIAL RESULTS REQUESTED WITHIN: ~~24Hrs~~ ~~48Hrs~~ ~~3 - 4 DAYS~~ **NORMAL**

REMARKS: **Please email completed COC, Sample Receipt Notification, results and invoices to:**

Please email results to: gberry@atmaenvironmental.com kobrien@atmaenvironmental.com

NOTE: △ Must be completed by Atma Environmental ■ Must be completed with date and time by laboratory.

Chain of Custody Record

(modified after US EPA chain of custody form)

Sheet 5 of 5

Atma *Environmental*

PROJECT: **ELWOOD**

Sampler's Signature:

Sampler's Name: **K. O'BRIEN**

Site No: **1865B**

DATE: **16/07/2020**

Time: **17:30**

SAMPLE NO.	DISCRETE	COMPOSITE	GRAB	SAMPLE MATRIX: SOIL	WATER	BLANK /____	ANALYSIS FOR: R20 - NEPM SCREEN	M17 - METALS SUITE	PAHs	TRHs	L2- AGGRESSIVITY SUITE	pH - CaCl2	C.E.C.		HOLD AT LAB		NO. of CONTAINERS	HIGH CONTAM EXPECTED	COMPOSITING INSTRUCTIONS:
DUP140720D	X			X					X	X							1		
DUP140720E	X			X											X		1		
DECON140720	X			X				X	X	X							1		
TOTAL:							6	36	36	36	3	10	4		59				

DISPATCHED BY: (sign) (DATE/TIME)

△

RECEIVED BY: (sign) (DATE/TIME)

COURIERED BY: (sign) (DATE/TIME)

KYLE OBRIEN

LAB NAME: **EUROFINS**

INITIAL RESULTS REQUESTED WITHIN: ~~24Hrs~~ ~~48Hrs~~ ~~3 - 4 DAYS~~ **NORMAL**

REMARKS: **Please email completed COC, Sample Receipt Notification, results and invoices to:**

Please email results to: gberry@atmaenvironmental.com kobrien@atmaenvironmental.com

NOTE: △ Must be completed by Atma Environmental ■ Must be completed with date and time by laboratory.

Chain of Custody Record

(modified after US EPA chain of custody form)

Atma *Environmental*

Sheet 1 of 5

PROJECT: Elwood

Sampler's Signature:

Sampler's Name:

Site No: 1865B

DATE: 14/07/20

Time:

SAMPLE NO.	DISCRETE	COMPOSITE	GRAB	SAMPLE MATRIX: SOIL	WATER	BLANK / ____	ANALYSIS FOR: hold									NO. of CONTAINERS	HIGH CONTAM EXPECTED	COMPOSITING INSTRUCTIONS:
DUP-140720B				X			X									1		
DUP-140720C				X			X									1		
DUP-140720D				X			X									1		
DUP-140720E				X			X									1		
SPLIT-140720A				X			X									1		
SPLIT-140720B				X			X									1		
SPLIT-140720C				X			X									1		
SPLIT-140720D				X			X									1		
SPLIT-140720E				X			X									1		
Field-140720				~~X~~		X	X									4		
TRIP-140720						X	X									4		
Below-140720						X	X											
TOTAL:																		

DISPATCHED BY: (sign) (DATE/TIME)

△

RECEIVED BY: (sign) (DATE/TIME)

COURIERED BY: (sign) (DATE/TIME)

LAB NAME:

INITIAL RESULTS REQUESTED WITHIN: **24Hrs** **48Hrs** **3 - 4 DAYS** **NORMAL**

REMARKS:

Please email completed COC, Sample Receipt Notification, results and invoices to:

Please email results to:

gberry@atmaenvironmental.com
rmcphillips@atmaenvironmental.com
jhammett@atmaenvironmental.com
kobrien@atmaenvironmental.com
hbaxter@atmaenvironmental.com
acampbell@atmaenvironmental.com

*12 Metals: As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Mo, Se, Ag, Sn

NOTE: △ Must be completed by Atma Environmental ■ Must be completed with date and time by laboratory.

Chain of Custody Record

(modified after US EPA chain of custody form)

Sheet 1 of 1

Atma *Environmental*

PROJECT: **ELWOOD**

Sampler's Signature: K. O'Brien

Sampler's Name: **K. O'BRIEN**

Site No: **1865B**

DATE: **16/07/2020**

Time: **17:30**

SAMPLE NO.	DISCRETE	COMPOSITE	GRAB	SAMPLE MATRIX: SOIL	WATER	BLANK /____	ANALYSIS FOR: R20 - NEPM SCREEN	M17 - METALS SUITE	PAHs	TRHs	L2- AGGRESSIVITY SUITE	pH - CaCl2	C.E.C.		HOLD AT LAB		NO. of CONTAINERS	HIGH CONTAM EXPECTED	COMPOSITING INSTRUCTIONS:
SPLIT140720A	X			X						X							1		
SPLIT140720B	X			X					X	X							1		
SPLIT140720C	X			X					X								1		
SPLIT140720D	X			X				X									1		
SPLIT140720E	X			X				X									1		
TOTAL:								2	2	2									

DISPATCHED BY: (sign) (DATE/TIME)

△

COURIERED BY: (sign) (DATE/TIME)

EUROFINS 16/07/2020

■ RECEIVED BY: (sign) (DATE/TIME)

LAB NAME: **ALS**

INITIAL RESULTS REQUESTED WITHIN: 24Hrs ~~48Hrs~~ ~~3 - 4 DAYS~~ **NORMAL**

REMARKS: **Please email completed COC, Sample Receipt Notification, results and invoices to:**

Please email results to: gberry@atmaenvironmental.com kobrien@atmaenvironmental.com

NOTE: △ Must be completed by Atma Environmental ■ Must be completed with date and time by laboratory.

Chain of Custody Record

(modified after US EPA chain of custody form)

Sheet 1 of 1

Atma *Environmental*

PROJECT: **ELWOOD**

Sampler's Signature: K. O'BRIEN

Sampler's Name:

Site No: **1865B**

DATE: **16/07/2020**

Time: **17:30**

SAMPLE NO.	DISCRETE	COMPOSITE	GRAB	SAMPLE MATRIX: SOIL	WATER	BLANK /_____	ANALYSIS FOR: R20 - NEPM SCREEN	M17 - METALS SUITE	PAHs	TRHs	L2- AGGRESSIVITY SUITE	pH - CaCl2	C.E.C.		HOLD AT LAB		NO. of CONTAINERS	HIGH CONTAM EXPECTED
SPLIT140720A	X			X						X							1	
SPLIT140720B	X			X					X	X							1	
SPLIT140720C	X			X					X								1	
SPLIT140720D	X			X				X									1	
SPLIT140720E	X			X				X									1	
TOTAL:									2	2	2							

COMPOSITING INSTRUCTIONS:

4

DISPATCHED BY: (sign) (DATE/TIME) △

RECEIVED BY: (sign) (DATE/TIME) ■

COURIERED BY: (sign) EUROFINS (DATE/TIME) 16/07/2020

LAB NAME: **ALS**

INITIAL RESULTS REQUESTED WITHIN: ~~24Hrs~~ ~~48Hrs~~ ~~3 - 4 DAYS~~ **NORMAL**

REMARKS: **Please email completed COC, Sample Receipt Notification, results and invoices to:**

Please email results to: gberry@atmaenvironmental.com kobrien@atmaenvironmental.com

NOTE: △ Must be completed by Atma Environmental ■ Must be completed with date and time by laboratory.

eurofins | Environment Testing

Melbourne
6 Monterey Road
Dandenong South Vic 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

Perth
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Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261 Site # 23736

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

Company name: **Atma Environmental**

Contact name: Glenn Berry
Project name: ELWOOD
Project ID: 1865B
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jul 15, 2020 2:00 PM
Eurofins reference: **732366**

Sample information

- ☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 8.5 degrees Celsius.
- ☑ All samples have been received as described on the above COC.
- ☑ COC has been completed correctly.
- ☑ Attempt to chill was evident.
- ☑ Appropriately preserved sample containers have been used.
- ☑ All samples were received in good condition.
- ☒ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☑ Appropriate sample containers have been used.
- ☑ Sample containers for volatile analysis received with zero headspace.
- ☒ Split sample sent to requested external lab.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Contact notes

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

Savini Suduweli on Phone : or by e.mail: SaviniSuduweli@eurofins.com

Results will be delivered electronically via e.mail to Glenn Berry - gberry@atmaenvironmental.com.

Atma Environmental
56 William St
Abbotsford
VIC 3067

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Glenn Berry**

Report **732366-S**
Project name ELWOOD
Project ID 1865B
Received Date Jul 15, 2020

Client Sample ID			**BH1/0.1**	**BH2/0.1**	**BH3/0.1**	**BH4/0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M20-JI28230**	**M20-JI28231**	**M20-JI28232**	**M20-JI28233**
Date Sampled			**Not Provided**[I12]	**Not Provided**[I12]	**Not Provided**[I12]	**Not Provided**[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	110	93	91	53
TRH C29-C36	50	mg/kg	190	150	74	110
TRH C10-C36 (Total)	50	mg/kg	300	243	165	163
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	240	200	130	130
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	240	200	130	130
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	1.2	1.3	0.7
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.5	1.6	1.0
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.8	1.8	1.3
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	0.6	0.6	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	1.0	1.0	0.6
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	0.8	0.7	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.8	1.0	0.5
Chrysene	0.5	mg/kg	< 0.5	0.9	0.9	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.9	1.6	0.9	0.9
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	0.6	< 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	1.0	1.8	1.0	1.0
Total PAH*	0.5	mg/kg	1.9	7.5	7.3	3

Client Sample ID			BH1/0.1	BH2/0.1	BH3/0.1	BH4/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28230	M20-JI28231	M20-JI28232	M20-JI28233
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
2-Fluorobiphenyl (surr.)	1	%	128	133	68	128
p-Terphenyl-d14 (surr.)	1	%	148	140	87	143
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	0.1	pH Units	6.3	-	-	-
% Moisture	1	%	28	14	13	14
Chromium (hexavalent)	1	mg/kg	-	-	< 1	-
Cyanide (free)	5	mg/kg	-	-	< 5	-
Heavy Metals						
Arsenic	2	mg/kg	8.6	12	16	7.4
Barium	10	mg/kg	22	41	-	30
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	15	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.1	15	19	9.8
Cobalt	5	mg/kg	< 5	< 5	5.2	< 5
Copper	5	mg/kg	12	18	17	7.0
Lead	5	mg/kg	44	130	58	20
Manganese	5	mg/kg	140	70	91	58
Mercury	0.1	mg/kg	< 0.1	1.1	0.3	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	-	< 5
Nickel	5	mg/kg	5.8	9.9	14	9.1
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Tin	10	mg/kg	< 10	< 10	-	< 10
Zinc	5	mg/kg	160	95	82	35
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	%	-	-	77	-
Organochlorine Pesticides						
Bifenthrin	0.05	mg/kg	-	-	< 0.05	-
Organophosphorus Pesticides						
Chlorpyrifos	0.2	mg/kg	-	-	< 0.2	-
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	%	-	-	98	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	76	-
Triazines						
Atrazine	0.2	mg/kg	-	-	< 0.2	-

Client Sample ID			BH1/0.1	BH2/0.1	BH3/0.1	BH4/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28230	M20-JI28231	M20-JI28232	M20-JI28233
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
NEPM 2013 Acid Herbicides						
Picloram	0.5	mg/kg	-	-	< 0.5	-
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	82	-
NEPM 2013 Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Mirex	0.01	mg/kg	-	-	< 0.01	-
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	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	1	mg/kg	-	-	< 1	-
Dibutylchlorendate (surr.)	1	%	-	-	98	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	76	-
NEPM 2013 Phenols						
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
Pentachlorophenol	1	mg/kg	-	-	< 1	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Phenol-d6 (surr.)	1	%	-	-	52	-

Client Sample ID			BH5/0.1	BH6/0.1	BH7/0.1	BH8/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28234	M20-JI28235	M20-JI28236	M20-JI28237
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	120	61	320	98
TRH C29-C36	50	mg/kg	180	71	270	110
TRH C10-C36 (Total)	50	mg/kg	300	132	590	208
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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

Client Sample ID			BH5/0.1	BH6/0.1	BH7/0.1	BH8/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28234	M20-JI28235	M20-JI28236	M20-JI28237
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	250	110	500	180
TRH >C34-C40	100	mg/kg	< 100	< 100	140	< 100
TRH >C10-C40 (total)*	100	mg/kg	250	110	640	180
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.1	2.4	8.7	2.2
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.4	2.6	8.7	2.5
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.7	2.9	8.7	2.7
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	0.8	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.6	1.6	4.5	1.3
Benzo(a)pyrene	0.5	mg/kg	0.9	1.8	6.0	1.7
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.7	1.3	4.6	1.3
Benzo(g.h.i)perylene	0.5	mg/kg	0.5	1.0	2.6	0.8
Benzo(k)fluoranthene	0.5	mg/kg	0.9	1.8	5.8	1.6
Chrysene	0.5	mg/kg	0.8	1.8	4.8	1.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.9	< 0.5
Fluoranthene	0.5	mg/kg	1.2	2.6	10.0	2.7
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	0.9	2.5	0.7
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	1.9	2.9	0.6
Pyrene	0.5	mg/kg	1.5	2.7	11	3.2
Total PAH*	0.5	mg/kg	7.1	17.4	56.4	15.4
2-Fluorobiphenyl (surr.)	1	%	134	58	135	133
p-Terphenyl-d14 (surr.)	1	%	136	84	137	147
% Moisture	1	%	9.7	25	30	50
Chromium (hexavalent)	1	mg/kg	-	< 1	-	-
Cyanide (free)	5	mg/kg	-	< 5	-	-
Heavy Metals						
Arsenic	2	mg/kg	26	8.3	8.6	12
Barium	10	mg/kg	160	-	72	53
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	34	13	< 10	15
Cadmium	0.4	mg/kg	0.9	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	14	16	22
Cobalt	5	mg/kg	6.8	< 5	6.4	12
Copper	5	mg/kg	81	18	61	27
Lead	5	mg/kg	520	140	250	130
Manganese	5	mg/kg	180	98	110	250
Mercury	0.1	mg/kg	< 0.1	0.2	0.4	0.2
Molybdenum	5	mg/kg	< 5	-	< 5	< 5
Nickel	5	mg/kg	19	12	22	47
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	0.5	-	< 0.2	< 0.2
Tin	10	mg/kg	34	-	34	14
Zinc	5	mg/kg	620	140	140	150

Client Sample ID			BH5/0.1	BH6/0.1	BH7/0.1	BH8/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28234	M20-JI28235	M20-JI28236	M20-JI28237
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
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	%	-	132	-	-
Organochlorine Pesticides						
Bifenthrin	0.05	mg/kg	-	< 0.05	-	-
Organophosphorus Pesticides						
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-
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	%	-	77	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	63	-	-
Triazines						
Atrazine	0.2	mg/kg	-	< 0.2	-	-
NEPM 2013 Acid Herbicides						
Picloram	0.5	mg/kg	-	< 0.5	-	-
2.4-D	0.5	mg/kg	-	< 0.5	-	-
2.4.5-T	0.5	mg/kg	-	< 0.5	-	-
MCPA	0.5	mg/kg	-	< 0.5	-	-
MCPB	0.5	mg/kg	-	< 0.5	-	-
Mecoprop	0.5	mg/kg	-	< 0.5	-	-
Warfarin (surr.)	1	%	-	64	-	-
NEPM 2013 Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Mirex	0.01	mg/kg	-	< 0.01	-	-
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	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	77	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	63	-	-

Client Sample ID			BH5/0.1	BH6/0.1	BH7/0.1	BH8/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28234	M20-JI28235	M20-JI28236	M20-JI28237
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
NEPM 2013 Phenols						
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Phenol-d6 (surr.)	1	%	-	90	-	-

Client Sample ID			BH9/0.1	BH10/0.1	BH11/0.1	BH12/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28238	M20-JI28239	M20-JI28240	M20-JI28241
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	87	< 50	85	-
TRH C29-C36	50	mg/kg	110	78	110	-
TRH C10-C36 (Total)	50	mg/kg	197	78	195	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	160	< 100	160	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	160	< 100	160	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.4	< 0.5	0.8	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.6	0.6	1.1	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.9	1.2	1.4	-
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	0.8	< 0.5	0.6	-
Benzo(a)pyrene	0.5	mg/kg	1.1	< 0.5	0.7	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.7	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	0.6	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	0.9	< 0.5	0.6	-
Chrysene	0.5	mg/kg	1.0	< 0.5	0.6	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	1.9	0.9	1.4	-
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	2.1	1.0	1.6	-
Total PAH*	0.5	mg/kg	9.1	1.9	5.5	-
2-Fluorobiphenyl (surr.)	1	%	131	130	136	-
p-Terphenyl-d14 (surr.)	1	%	138	149	139	-

Client Sample ID			BH9/0.1	BH10/0.1	BH11/0.1	BH12/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28238	M20-JI28239	M20-JI28240	M20-JI28241
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
% Moisture	1	%	14	14	33	11
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	390	260	33
Chloride	5	mg/kg	-	-	-	< 5
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	-	7.4
Resistivity*	0.5	ohm.m	-	-	-	310
Sulphate (as SO4)	30	mg/kg	-	-	-	< 30
Heavy Metals						
Arsenic	2	mg/kg	6.9	6.4	11	-
Barium	10	mg/kg	30	29	42	-
Beryllium	2	mg/kg	< 2	< 2	< 2	-
Boron	10	mg/kg	< 10	10	28	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	7.7	9.6	22	-
Cobalt	5	mg/kg	< 5	< 5	< 5	-
Copper	5	mg/kg	11	14	25	-
Lead	5	mg/kg	53	46	97	-
Manganese	5	mg/kg	68	140	200	-
Mercury	0.1	mg/kg	< 0.1	1.3	0.2	-
Molybdenum	5	mg/kg	< 5	< 5	< 5	-
Nickel	5	mg/kg	8.0	11	8.3	-
Selenium	2	mg/kg	< 2	< 2	< 2	-
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Tin	10	mg/kg	< 10	< 10	< 10	-
Zinc	5	mg/kg	62	66	160	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	35	43	-

Client Sample ID			BH13/0.1	BH14/0.1	BH15/0.1	BH16/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28242	M20-JI28243	M20-JI28244	M20-JI28245
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	22	< 20	< 20	30
TRH C15-C28	50	mg/kg	320	200	< 50	360
TRH C29-C36	50	mg/kg	270	270	< 50	410
TRH C10-C36 (Total)	50	mg/kg	612	470	< 50	800
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	72
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	72
TRH >C16-C34	100	mg/kg	470	370	< 100	570
TRH >C34-C40	100	mg/kg	180	120	< 100	310
TRH >C10-C40 (total)*	100	mg/kg	650	490	< 100	952

Client Sample ID			BH13/0.1	BH14/0.1	BH15/0.1	BH16/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28242	M20-JI28243	M20-JI28244	M20-JI28245
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.1
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	1.4
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.7
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	0.6
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
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	0.7
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.3
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	1.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	6.3
2-Fluorobiphenyl (surr.)	1	%	86	135	150	131
p-Terphenyl-d14 (surr.)	1	%	92	146	118	139
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	0.1	pH Units	6.6	-	-	-
% Moisture	1	%	25	16	14	41
Heavy Metals						
Arsenic	2	mg/kg	4.8	6.9	7.9	29
Barium	10	mg/kg	81	27	22	38
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	24
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	22	11	9.7	22
Cobalt	5	mg/kg	7.9	< 5	< 5	< 5
Copper	5	mg/kg	70	7.1	8.8	18
Lead	5	mg/kg	38	31	46	180
Manganese	5	mg/kg	220	110	49	78
Mercury	0.1	mg/kg	< 0.1	0.4	0.4	0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	25	7.5	6.6	6.6
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	13	< 10	< 10	< 10
Zinc	5	mg/kg	320	24	61	200

Client Sample ID			BH17/0.1	BH18/0.1	BH19/0.1	BH20/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28246	M20-JI28247	M20-JI28248	M20-JI28249
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	87	< 50	79
TRH C29-C36	50	mg/kg	< 50	67	66	61
TRH C10-C36 (Total)	50	mg/kg	< 50	154	66	140
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	120	< 100	120
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	120	< 100	120
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	0.5	1.8	1.1	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.9	2.1	1.3	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	2.3	1.6	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	0.8	0.6	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.5	1.4	0.8	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	1.0	0.6	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	0.9	0.6	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	1.3	0.8	< 0.5
Chrysene	0.5	mg/kg	0.5	1.1	0.7	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.1	1.0	0.9	< 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	0.7	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	1.3	1.3	1.0	< 0.5
Total PAH*	0.5	mg/kg	3.4	9.5	6.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	144	63	64	137
p-Terphenyl-d14 (surr.)	1	%	150	82	80	102
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	0.1	pH Units	7.6	-	-	-
% Moisture	1	%	6.3	6.4	14	6.6
Chromium (hexavalent)	1	mg/kg	-	< 1	< 1	-
Cyanide (free)	5	mg/kg	-	< 5	< 5	-
Heavy Metals						
Arsenic	2	mg/kg	3.3	13	12	3.1
Barium	10	mg/kg	18	-	-	21
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.1	11	18	7.3

Client Sample ID			BH17/0.1	BH18/0.1	BH19/0.1	BH20/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28246	M20-JI28247	M20-JI28248	M20-JI28249
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Heavy Metals						
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	8.9	25	10	10
Lead	5	mg/kg	33	310	48	26
Manganese	5	mg/kg	69	80	66	53
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	-	-	< 5
Nickel	5	mg/kg	11	16	10	5.6
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	-	-	< 0.2
Tin	10	mg/kg	< 10	-	-	< 10
Zinc	5	mg/kg	49	70	71	79
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	%	-	79	78	-
Organochlorine Pesticides						
Bifenthrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Organophosphorus Pesticides						
Chlorpyrifos	0.2	mg/kg	-	< 0.2	< 0.2	-
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	-
Dibutylchlorendate (surr.)	1	%	-	101	96	-
Tetrachloro-m-xylene (surr.)	1	%	-	75	73	-
Triazines						
Atrazine	0.2	mg/kg	-	< 0.2	< 0.2	-
NEPM 2013 Acid Herbicides						
Picloram	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4-D	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4.5-T	0.5	mg/kg	-	< 0.5	< 0.5	-
MCPA	0.5	mg/kg	-	< 0.5	< 0.5	-
MCPB	0.5	mg/kg	-	< 0.5	< 0.5	-
Mecoprop	0.5	mg/kg	-	< 0.5	< 0.5	-
Warfarin (surr.)	1	%	-	65	86	-
NEPM 2013 Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Mirex	0.01	mg/kg	-	< 0.01	< 0.01	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-

Client Sample ID			BH17/0.1	BH18/0.1	BH19/0.1	BH20/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28246	M20-JI28247	M20-JI28248	M20-JI28249
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
NEPM 2013 Organochlorine Pesticides						
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
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	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	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	1	mg/kg	-	< 1	< 1	-
Dibutylchlorendate (surr.)	1	%	-	101	96	-
Tetrachloro-m-xylene (surr.)	1	%	-	75	73	-
NEPM 2013 Phenols						
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	< 0.2	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	< 0.4	-
Pentachlorophenol	1	mg/kg	-	< 1	< 1	-
Phenol	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenol-d6 (surr.)	1	%	-	96	99	-

Client Sample ID			BH21/0.1	BH22/0.1	BH23/0.1	BH24/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28250	M20-JI28251	M20-JI28252	M20-JI28253
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	75
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	58
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	133
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	1.0	0.5	0.6
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.3	0.9	1.0
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.6	1.2	1.3
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

Client Sample ID			BH21/0.1	BH22/0.1	BH23/0.1	BH24/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28250	M20-JI28251	M20-JI28252	M20-JI28253
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.5	mg/kg	< 0.5	0.8	0.5	0.6
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	0.8	< 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	0.8	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	1.3	< 0.5	1.0
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	0.8
Pyrene	0.5	mg/kg	< 0.5	1.4	0.5	1.1
Total PAH*	0.5	mg/kg	< 0.5	5.7	1	3.5
2-Fluorobiphenyl (surr.)	1	%	83	102	106	105
p-Terphenyl-d14 (surr.)	1	%	106	131	136	136
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	0.1	pH Units	-	-	5.4	-
% Moisture	1	%	4.3	14	31	16
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	290	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	9.3	9.3	8.5
Barium	10	mg/kg	< 10	13	16	15
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	6.4	7.7	12
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	< 5	5.5	7.3	9.1
Lead	5	mg/kg	< 5	71	58	68
Manganese	5	mg/kg	33	29	44	46
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.2	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	5.3	5.5	6.8
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	34	31	67	140
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	8.5	-

Client Sample ID			BH25/0.1	BH26/0.1	BH27/0.1	BH28/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28254	M20-JI28255	M20-JI28256	M20-JI28257
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	33	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	210	390
TRH C29-C36	50	mg/kg	< 50	< 50	170	360
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	413	750
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	100	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	100	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	260	610
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	170
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	360	780
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	8.4
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.7	0.6	0.6	8.4
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.3	1.2	1.2	8.4
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	1.0	< 0.5	< 0.5	4.7
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	5.8
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	4.0
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	3.2
Benzo(k)fluoranthene	0.5	mg/kg	0.6	< 0.5	< 0.5	4.5
Chrysene	0.5	mg/kg	1.2	< 0.5	< 0.5	6.2
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Fluoranthene	0.5	mg/kg	1.2	< 0.5	< 0.5	6.8
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	2.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.0
Pyrene	0.5	mg/kg	1.1	< 0.5	< 0.5	7.8
Total PAH*	0.5	mg/kg	5.1	< 0.5	< 0.5	48.9
2-Fluorobiphenyl (surr.)	1	%	80	81	90	88
p-Terphenyl-d14 (surr.)	1	%	95	107	90	85
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	0.1	pH Units	7.4	-	-	-
% Moisture	1	%	14	9.2	13	30
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	720	-
Chloride	5	mg/kg	-	-	1100	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	7.3	-
Resistivity*	0.5	ohm.m	-	-	14	-
Sulphate (as SO4)	30	mg/kg	-	-	240	-

Client Sample ID			BH25/0.1	BH26/0.1	BH27/0.1	BH28/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28254	M20-JI28255	M20-JI28256	M20-JI28257
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.7	4.7	4.3	5.7
Barium	10	mg/kg	53	20	15	20
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	15	28
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	30	12	7.8	5.9
Cobalt	5	mg/kg	< 5	6.3	< 5	< 5
Copper	5	mg/kg	10	17	10	10
Lead	5	mg/kg	24	22	48	37
Manganese	5	mg/kg	100	130	63	120
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	10	21	7.0	6.1
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	31	140	68	91

Client Sample ID			BH29/0.1	BH30/0.1	BH31/0.1	BH32/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28258	M20-JI28259	M20-JI28260	M20-JI28261
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	900	< 50	< 50	84
TRH C29-C36	50	mg/kg	600	< 50	< 50	87
TRH C10-C36 (Total)	50	mg/kg	1500	< 50	< 50	171
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	1200	< 100	< 100	130
TRH >C34-C40	100	mg/kg	300	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	1500	< 100	< 100	130
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	22	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	22	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	22	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	3.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	15	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	16	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	10	< 0.5	< 0.5	0.5

Client Sample ID			BH29/0.1	BH30/0.1	BH31/0.1	BH32/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28258	M20-JI28259	M20-JI28260	M20-JI28261
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(g.h.i)perylene	0.5	mg/kg	8.6	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	13	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	13	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	1.1	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	24	< 0.5	< 0.5	0.9
Fluorene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	7.1	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	8.9	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	26	< 0.5	< 0.5	0.9
Total PAH*	0.5	mg/kg	147.4	< 0.5	< 0.5	2.3
2-Fluorobiphenyl (surr.)	1	%	83	149	93	93
p-Terphenyl-d14 (surr.)	1	%	80	141	93	100
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	0.1	pH Units	-	5.9	-	6.9
% Moisture	1	%	12	40	16	15
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	-	500
Chloride	5	mg/kg	-	-	-	260
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	-	6.9
Resistivity*	0.5	ohm.m	-	-	-	20
Sulphate (as SO4)	30	mg/kg	-	-	-	83
Heavy Metals						
Arsenic	2	mg/kg	9.8	4.5	6.7	4.1
Barium	10	mg/kg	25	41	29	27
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	10	< 10	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	44	6.6	16	8.2
Cobalt	5	mg/kg	< 5	< 5	7.5	< 5
Copper	5	mg/kg	8.2	23	< 5	14
Lead	5	mg/kg	34	16	29	51
Manganese	5	mg/kg	68	110	73	78
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	12	6.0	8.1	9.6
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	21	99	30	79

Client Sample ID			BH33/0.1	BH34/0.1	BH35/0.1	BH36/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28262	M20-JI28263	M20-JI28264	M20-JI28265
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	33	< 20	63	23
TRH C15-C28	50	mg/kg	310	< 50	470	220
TRH C29-C36	50	mg/kg	390	77	540	320
TRH C10-C36 (Total)	50	mg/kg	733	77	1073	563
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	70	< 50	160	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	70	< 50	160	< 50
TRH >C16-C34	100	mg/kg	530	< 100	740	410
TRH >C34-C40	100	mg/kg	260	< 100	320	220
TRH >C10-C40 (total)*	100	mg/kg	860	< 100	1220	630
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.1	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.4	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.6	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	0.9	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.9	< 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	1.0	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	1.0	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.3	< 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	1.2	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	7.1	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	93	99	112	73
p-Terphenyl-d14 (surr.)	1	%	91	108	120	73
% Moisture	1	%	28	18	55	19
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	53	-	3100
Heavy Metals						
Arsenic	2	mg/kg	10	5.9	11	2.3
Barium	10	mg/kg	31	22	45	16
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	16	< 10	29	35
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	15	8.2	9.0	5.1
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	16	5.3	21	11

Client Sample ID			BH33/0.1	BH34/0.1	BH35/0.1	BH36/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M20-JI28262	M20-JI28263	M20-JI28264	M20-JI28265
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	47	36	18	13
Manganese	5	mg/kg	110	61	87	66
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	9.9	5.5	5.8	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	110	49	64	65
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	13	-	21

Client Sample ID			BH37/0.1	T1/0.1	T2/0.1	DUP-140720A
Sample Matrix			Soil	Woodchips	Soil	Soil
Eurofins Sample No.			M20-JI28266	M20-JI28267	M20-JI28268	M20-JI28269
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	120	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	120	< 50	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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	110	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	110	< 100	-
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	-

Client Sample ID			BH37/0.1	T1/0.1	T2/0.1	DUP-140720A
Sample Matrix			Soil	Woodchips	Soil	Soil
Eurofins Sample No.			M20-JI28266	M20-JI28267	M20-JI28268	M20-JI28269
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	90	56	82	-
p-Terphenyl-d14 (surr.)	1	%	91	75	87	-
% Moisture	1	%	7.7	-	22	22
Chromium (hexavalent)	1	mg/kg	-	< 1	< 1	-
Cyanide (free)	5	mg/kg	-	< 5	< 5	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	50	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	2.5	3.5
Barium	10	mg/kg	17	-	-	15
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	22	< 10	15
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	7.1	6.3
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	< 5	10	8.9	10.0
Lead	5	mg/kg	< 5	12	42	41
Manganese	5	mg/kg	16	68	57	110
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	-	-	< 5
Nickel	5	mg/kg	< 5	< 5	6.6	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	< 0.2	-	-	< 0.2
Tin	10	mg/kg	< 10	-	-	< 10
Zinc	5	mg/kg	< 5	71	66	120
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	%	-	59	115	-
Organochlorine Pesticides						
Bifenthrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Organophosphorus Pesticides						
Chlorpyrifos	0.2	mg/kg	-	< 0.2	< 0.2	-
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	-

Client Sample ID			BH37/0.1	T1/0.1	T2/0.1	DUP-140720A
Sample Matrix			Soil	Woodchips	Soil	Soil
Eurofins Sample No.			M20-JI28266	M20-JI28267	M20-JI28268	M20-JI28269
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	88	73	-
Tetrachloro-m-xylene (surr.)	1	%	-	63	86	-
Triazines						
Atrazine	0.2	mg/kg	-	< 0.2	< 0.2	-
NEPM 2013 Acid Herbicides						
Picloram	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4-D	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4.5-T	0.5	mg/kg	-	< 0.5	< 0.5	-
MCPA	0.5	mg/kg	-	< 0.5	< 0.5	-
MCPB	0.5	mg/kg	-	< 0.5	< 0.5	-
Mecoprop	0.5	mg/kg	-	< 0.5	< 0.5	-
Warfarin (surr.)	0.5	%	-	87	77	-
NEPM 2013 Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Mirex	0.01	mg/kg	-	< 0.01	< 0.01	-
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	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
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	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	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	1	mg/kg	-	< 1	< 1	-
Dibutylchlorendate (surr.)	1	%	-	88	73	-
Tetrachloro-m-xylene (surr.)	1	%	-	63	86	-
NEPM 2013 Phenols						
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	< 0.2	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	< 0.4	-
Pentachlorophenol	1	mg/kg	-	< 1	< 1	-
Phenol	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenol-d6 (surr.)	1	%	-	94	71	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	8.2	-

Client Sample ID			DUP-140720B	DUP-140720C	DUP-140720D
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M20-JI28270	M20-JI28271	M20-JI28272
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	36
TRH C15-C28	50	mg/kg	-	-	230
TRH C29-C36	50	mg/kg	-	-	270
TRH C10-C36 (Total)	50	mg/kg	-	-	536
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
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	-	-	65
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	65
TRH >C16-C34	100	mg/kg	-	-	380
TRH >C34-C40	100	mg/kg	-	-	170
TRH >C10-C40 (total)*	100	mg/kg	-	-	615
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	2.3	< 0.5	1.6
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	2.5	0.6	1.9
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	2.8	1.2	2.1
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	2.4	< 0.5	1.1
Benzo(a)pyrene	0.5	mg/kg	1.7	< 0.5	1.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.1	< 0.5	1.1
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	0.8
Benzo(k)fluoranthene	0.5	mg/kg	1.8	< 0.5	1.0
Chrysene	0.5	mg/kg	2.5	< 0.5	1.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	3.1	< 0.5	1.9
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	0.6
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.7	< 0.5	0.7
Pyrene	0.5	mg/kg	2.8	< 0.5	2.0
Total PAH*	0.5	mg/kg	16.1	< 0.5	11.9
2-Fluorobiphenyl (surr.)	1	%	86	80	85
p-Terphenyl-d14 (surr.)	1	%	92	101	86
% Moisture	1	%	15	12	26
Heavy Metals					
Arsenic	2	mg/kg	14	5.3	-
Barium	10	mg/kg	42	23	-
Beryllium	2	mg/kg	< 2	< 2	-
Boron	10	mg/kg	19	< 10	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-
Chromium	5	mg/kg	17	17	-
Cobalt	5	mg/kg	< 5	12	-
Copper	5	mg/kg	18	17	-
Lead	5	mg/kg	120	26	-

Client Sample ID			DUP-140720B	DUP-140720C	DUP-140720D
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M20-JI28270	M20-JI28271	M20-JI28272
Date Sampled			Not Provided[I12]	Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit			
Heavy Metals					
Manganese	5	mg/kg	85	190	-
Mercury	0.1	mg/kg	0.2	< 0.1	-
Molybdenum	5	mg/kg	< 5	< 5	-
Nickel	5	mg/kg	13	36	-
Selenium	2	mg/kg	< 2	< 2	-
Silver	0.2	mg/kg	< 0.2	< 0.2	-
Tin	10	mg/kg	< 10	< 10	-
Zinc	5	mg/kg	140	140	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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	Melbourne	Jul 17, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jul 17, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Jul 17, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding Methyl Mercury/PBDE			
Polycyclic Aromatic Hydrocarbons	Melbourne	Jul 20, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Chromium (hexavalent)	Melbourne	Jul 20, 2020	28 Days
- Method: APHA 3500-Cr Hexavalent Chromium- (Extraction:- USEPA3060)			
Cyanide (free)	Melbourne	Jul 20, 2020	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
NEPM 2013 Metals : Metals M12	Melbourne	Jul 17, 2020	28 Days
- Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)			
VIC EPA Metals : Metals M17	Melbourne	Jul 17, 2020	180 Days
- Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)			
Heavy Metals	Melbourne	Jul 17, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
BTEX	Melbourne	Jul 17, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Organochlorine Pesticides	Melbourne	Jul 20, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Organophosphorus Pesticides	Melbourne	Jul 20, 2020	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8081)			
Polychlorinated Biphenyls	Melbourne	Jul 20, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Triazines	Melbourne	Jul 20, 2020	14 Days
- Method: LTM-ORG-2210 Triazine Herbicides in Soil and Water by GC-MS/MS			
NEPM 2013 Acid Herbicides	Melbourne	Jul 18, 2020	14 Days
- Method: MGT 530			
NEPM 2013 Organochlorine Pesticides	Melbourne	Jul 20, 2020	14 Days
- Method: USEPA 8081 Organochlorine Pesticides			
NEPM 2013 Phenols	Melbourne	Jul 20, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	Melbourne	Jul 17, 2020	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
% Moisture	Melbourne	Jul 17, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Melbourne	Jul 17, 2020	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Jul 20, 2020	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
Chloride	Melbourne	Jul 17, 2020	28 Days
- Method: LTM-INO-4090 Chloride by Discrete Analyser			
pH (1:5 Aqueous extract at 25°C as rec.)	Melbourne	Jul 17, 2020	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Sulphate (as SO4)	Melbourne	Jul 17, 2020	28 Days
- Method: LTM-INO-4110 Sulfate by Discrete Analyser			

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Company Name: Atma Environmental
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Project Name: ELWOOD
Project ID: 1865B

Order No.:
Report #: 732366
Phone: 9429 6955
Fax: 9429 5911

Received: Jul 15, 2020 2:00 PM
Due: Jul 22, 2020
Priority: 5 Day
Contact Name: Glenn Berry

Eurofins Analytical Services Manager : Savini Suduweli

Sample Detail						HOLD	pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	VIC EPA Metals : Metals M17	Vic EPA Metals : Metals M17 filtered	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217															
Brisbane Laboratory - NATA Site # 20794															
Perth Laboratory - NATA Site # 23736															
External Laboratory															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
1	BH1/0.1	Not Provided		Soil	M20-Jl28230		X	X	X			X			X
2	BH2/0.1	Not Provided		Soil	M20-Jl28231			X	X			X			X
3	BH3/0.1	Not Provided		Soil	M20-Jl28232							X		X	
4	BH4/0.1	Not Provided		Soil	M20-Jl28233			X	X			X			X
5	BH5/0.1	Not Provided		Soil	M20-Jl28234			X	X			X			X
6	BH6/0.1	Not Provided		Soil	M20-Jl28235							X		X	
7	BH7/0.1	Not Provided		Soil	M20-Jl28236			X	X			X			X
8	BH8/0.1	Not Provided		Soil	M20-Jl28237			X	X			X			X
9	BH9/0.1	Not Provided		Soil	M20-Jl28238			X	X			X			X
10	BH10/0.1	Not Provided		Soil	M20-Jl28239			X	X			X	X		X

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Company Name: Atma Environmental
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Project Name: ELWOOD
Project ID: 1865B

Order No.:
Report #: 732366
Phone: 9429 6955
Fax: 9429 5911

Received: Jul 15, 2020 2:00 PM
Due: Jul 22, 2020
Priority: 5 Day
Contact Name: Glenn Berry

Eurofins Analytical Services Manager : Savini Suduweli

Sample Detail						HOLD	pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	VIC EPA Metals : Metals M17	Vic EPA Metals : Metals M17 filtered	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217															
Brisbane Laboratory - NATA Site # 20794															
Perth Laboratory - NATA Site # 23736															
11	BH11/0.1	Not Provided		Soil	M20-JI28240			X	X			X	X		X
12	BH12/0.1	Not Provided		Soil	M20-JI28241						X	X			
13	BH13/0.1	Not Provided		Soil	M20-JI28242		X	X	X			X			X
14	BH14/0.1	Not Provided		Soil	M20-JI28243			X	X			X			X
15	BH15/0.1	Not Provided		Soil	M20-JI28244			X	X			X			X
16	BH16/0.1	Not Provided		Soil	M20-JI28245			X	X			X			X
17	BH17/0.1	Not Provided		Soil	M20-JI28246		X	X	X			X			X
18	BH18/0.1	Not Provided		Soil	M20-JI28247							X		X	
19	BH19/0.1	Not Provided		Soil	M20-JI28248							X		X	
20	BH20/0.1	Not Provided		Soil	M20-JI28249			X	X			X			X
21	BH21/0.1	Not Provided		Soil	M20-JI28250			X	X			X			X
22	BH22/0.1	Not Provided		Soil	M20-JI28251			X	X			X			X
23	BH23/0.1	Not Provided		Soil	M20-JI28252		X	X	X			X	X		X

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Project Name: ELWOOD
Project ID: 1865B

Order No.:
Report #: 732366
Phone: 9429 6955
Fax: 9429 5911

Received: Jul 15, 2020 2:00 PM
Due: Jul 22, 2020
Priority: 5 Day
Contact Name: Glenn Berry

Eurofins Analytical Services Manager : Savini Suduweli

Sample Detail						HOLD	pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	VIC EPA Metals : Metals M17	Vic EPA Metals : Metals M17 filtered	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217															
Brisbane Laboratory - NATA Site # 20794															
Perth Laboratory - NATA Site # 23736															
24	BH24/0.1	Not Provided		Soil	M20-JI28253			X	X			X			X
25	BH25/0.1	Not Provided		Soil	M20-JI28254		X	X	X			X			X
26	BH26/0.1	Not Provided		Soil	M20-JI28255			X	X			X			X
27	BH27/0.1	Not Provided		Soil	M20-JI28256			X	X		X	X			X
28	BH28/0.1	Not Provided		Soil	M20-JI28257			X	X			X			X
29	BH29/0.1	Not Provided		Soil	M20-JI28258			X	X			X			X
30	BH30/0.1	Not Provided		Soil	M20-JI28259		X	X	X			X			X
31	BH31/0.1	Not Provided		Soil	M20-JI28260			X	X			X			X
32	BH32/0.1	Not Provided		Soil	M20-JI28261		X	X	X		X	X			X
33	BH33/0.1	Not Provided		Soil	M20-JI28262			X	X			X			X
34	BH34/0.1	Not Provided		Soil	M20-JI28263			X	X			X	X		X
35	BH35/0.1	Not Provided		Soil	M20-JI28264			X	X			X			X
36	BH36/0.1	Not Provided		Soil	M20-JI28265			X	X			X	X		X

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Received: Jul 15, 2020 2:00 PM
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Priority: 5 Day
Contact Name: Glenn Berry

Eurofins Analytical Services Manager : Savini Suduweli

Sample Detail						HOLD	pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	VIC EPA Metals : Metals M17	Vic EPA Metals : Metals M17 filtered	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217															
Brisbane Laboratory - NATA Site # 20794															
Perth Laboratory - NATA Site # 23736															
37	BH37/0.1	Not Provided		Soil	M20-JI28266			X	X			X			X
38	T1/0.1	Not Provided		Woodchips	M20-JI28267									X	
39	T2/0.1	Not Provided		Soil	M20-JI28268							X	X	X	
40	DUP-140720A	Not Provided		Soil	M20-JI28269				X			X			
41	DUP-140720B	Not Provided		Soil	M20-JI28270			X	X			X			
42	DUP-140720C	Not Provided		Soil	M20-JI28271			X	X			X			
43	DUP-140720D	Not Provided		Soil	M20-JI28272			X				X			X
44	DECON140720	Not Provided		Water	M20-JI28273			X		X					X
45	BH1/0.5	Not Provided		Soil	M20-JI28274	X									
46	BH2/0.5	Not Provided		Soil	M20-JI28275	X									
47	BH2/1.0	Not Provided		Soil	M20-JI28276	X									
48	BH3/0.5	Not Provided		Soil	M20-JI28277	X									

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Project Name: ELWOOD
Project ID: 1865B

Order No.:
Report #: 732366
Phone: 9429 6955
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Received: Jul 15, 2020 2:00 PM
Due: Jul 22, 2020
Priority: 5 Day
Contact Name: Glenn Berry

Eurofins Analytical Services Manager : Savini Suduweli

Sample Detail						HOLD	pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	VIC EPA Metals : Metals M17	Vic EPA Metals : Metals M17 filtered	Aggressivity Soil Set	Moisture Set	Cation Exchange Capacity	NEPM Screen Table 1(A) HIL's for Soil Contaminants - Basic Suite - Excluding	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217															
Brisbane Laboratory - NATA Site # 20794															
Perth Laboratory - NATA Site # 23736															
49	BH3/1.0	Not Provided		Soil	M20-JI28278	X									
50	BH4/0.5	Not Provided		Soil	M20-JI28279	X									
51	BH5/1.0	Not Provided		Soil	M20-JI28280	X									
52	BH5/1.5	Not Provided		Soil	M20-JI28281	X									
53	BH6/0.5	Not Provided		Soil	M20-JI28282	X									
54	BH7/0.5	Not Provided		Soil	M20-JI28283	X									
55	BH7/1.0	Not Provided		Soil	M20-JI28284	X									
56	BH8/0.5	Not Provided		Soil	M20-JI28285	X									
57	BH9/0.5	Not Provided		Soil	M20-JI28286	X									
58	BH10/0.5	Not Provided		Soil	M20-JI28287	X									
59	BH11/0.5	Not Provided		Soil	M20-JI28288	X									
60	BH13/0.5	Not Provided		Soil	M20-JI28289	X									
61	BH13/1.0	Not Provided		Soil	M20-JI28290	X									

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Company Name: Atma Environmental
Address: 56 William St
Abbotsford
VIC 3067

Project Name: ELWOOD
Project ID: 1865B

Order No.:
Report #: 732366
Phone: 9429 6955
Fax: 9429 5911

Received: Jul 15, 2020 2:00 PM
Due: Jul 22, 2020
Priority: 5 Day
Contact Name: Glenn Berry

Eurofins Analytical Services Manager : Savini Suduweli

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217															
Brisbane Laboratory - NATA Site # 20794															
Perth Laboratory - NATA Site # 23736															
62	BH13/1.5	Not Provided		Soil	M20-JI28291	X									
63	BH14/0.5	Not Provided		Soil	M20-JI28292	X									
64	BH14/1.0	Not Provided		Soil	M20-JI28293	X									
65	BH14/1.5	Not Provided		Soil	M20-JI28294	X									
66	BH15/0.5	Not Provided		Soil	M20-JI28295	X									
67	BH15/1.0	Not Provided		Soil	M20-JI28296	X									
68	BH17/0.5	Not Provided		Soil	M20-JI28297	X									
69	BH17/1.0	Not Provided		Soil	M20-JI28298	X									
70	BH18/0.5	Not Provided		Soil	M20-JI28299	X									
71	BH18/1.0	Not Provided		Soil	M20-JI28300	X									
72	BH19/0.5	Not Provided		Soil	M20-JI28301	X									
73	BH19/1.0	Not Provided		Soil	M20-JI28302	X									
74	BH21/0.5	Not Provided		Soil	M20-JI28303	X									

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Sydney Laboratory - NATA Site # 18217															
Brisbane Laboratory - NATA Site # 20794															
Perth Laboratory - NATA Site # 23736															
75	BH21/1.0	Not Provided		Soil	M20-JI28304	X									
76	BH22/0.5	Not Provided		Soil	M20-JI28305	X									
77	BH23/0.5	Not Provided		Soil	M20-JI28307	X									
78	BH23/1.0	Not Provided		Soil	M20-JI28308	X									
79	BH24/0.5	Not Provided		Soil	M20-JI28309	X									
80	BH25/0.5	Not Provided		Soil	M20-JI28310	X									
81	BH25/1.0	Not Provided		Soil	M20-JI28311	X									
82	BH26/0.5	Not Provided		Soil	M20-JI28312	X									
83	BH27/0.5	Not Provided		Soil	M20-JI28313	X									
84	BH28/0.5	Not Provided		Soil	M20-JI28314	X									
85	BH29/0.5	Not Provided		Soil	M20-JI28315	X									
86	BH29/1.0	Not Provided		Soil	M20-JI28316	X									
87	BH30/0.5	Not Provided		Soil	M20-JI28317	X									

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Sydney Laboratory - NATA Site # 18217															
Brisbane Laboratory - NATA Site # 20794															
Perth Laboratory - NATA Site # 23736															
88	BH31/0.5	Not Provided		Soil	M20-JI28318	X									
89	BH31/1.0	Not Provided		Soil	M20-JI28319	X									
90	BH32/0.5	Not Provided		Soil	M20-JI28320	X									
91	BH32/1.0	Not Provided		Soil	M20-JI28321	X									
92	BH32/1.5	Not Provided		Soil	M20-JI28322	X									
93	BH33/0.5	Not Provided		Soil	M20-JI28323	X									
94	BH34/0.5	Not Provided		Soil	M20-JI28324	X									
95	BH35/0.5	Not Provided		Soil	M20-JI28325	X									
96	BH36/0.5	Not Provided		Soil	M20-JI28326	X									
97	BH37/0.5	Not Provided		Soil	M20-JI28327	X									
98	T1/0.5	Not Provided		Soil	M20-JI28328	X									
99	T2/0.5	Not Provided		Soil	M20-JI28330	X									
100	DUP-140720E	Not Provided		Soil	M20-JI28331	X									

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217															
Brisbane Laboratory - NATA Site # 20794															
Perth Laboratory - NATA Site # 23736															
101	FIELD-140720	Not Provided		Water	M20-JI28332	X									
102	TRIP-140720	Not Provided		Water	M20-JI28333	X									
103	BH5/0.5	Not Provided		Soil	M20-JI28426	X									
104	BH15/1.5	Not Provided		Soil	M20-JI28437	X									
105	T1/1.0	Not Provided		Soil	M20-JI28462	X									
Test Counts						61	7	36	35	1	3	42	6	6	34

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.

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

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 5.3
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

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

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 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate 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 - 1999 NEPM Fractions							
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	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
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							
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							
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Chloride	mg/kg	< 5			5	Pass	
Sulphate (as SO4)	mg/kg	< 30			30	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Arsenic	mg/kg	< 2			2	Pass	
Barium	mg/kg	< 10			10	Pass	
Beryllium	mg/kg	< 2			2	Pass	
Beryllium	mg/kg	< 2			2	Pass	
Boron	mg/kg	< 10			10	Pass	
Boron	mg/kg	< 10			10	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Cobalt	mg/kg	< 5			5	Pass	
Cobalt	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Manganese	mg/kg	< 5			5	Pass	
Manganese	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Molybdenum	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Selenium	mg/kg	< 2			2	Pass	
Silver	mg/kg	< 0.2			0.2	Pass	
Tin	mg/kg	< 10			10	Pass	
Zinc	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	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							
Organochlorine Pesticides							
Bifenthrin	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Organophosphorus Pesticides							
Chlorpyrifos	mg/kg	< 0.2			0.2	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							
Triazines							
Atrazine	mg/kg	< 0.2			0.2	Pass	
Method Blank							
NEPM 2013 Acid Herbicides							
Picloram	mg/kg	< 0.5			0.5	Pass	
2.4-D	mg/kg	< 0.5			0.5	Pass	
2.4.5-T	mg/kg	< 0.5			0.5	Pass	
MCPA	mg/kg	< 0.5			0.5	Pass	
MCPB	mg/kg	< 0.5			0.5	Pass	
Mecoprop	mg/kg	< 0.5			0.5	Pass	
Method Blank							
NEPM 2013 Organochlorine Pesticides							
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mirex	mg/kg	< 0.01			0.01	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	
Aldrin	mg/kg	< 0.05			0.05	Pass	
Chlordanes - Total	mg/kg	< 0.1			0.1	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	
Endrin	mg/kg	< 0.05			0.05	Pass	
Heptachlor	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	< 1			1	Pass	
Method Blank							
NEPM 2013 Phenols							
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Cation Exchange Capacity							
Cation Exchange Capacity	meq/100g	< 0.05			0.05	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	107			70-130	Pass	
TRH C10-C14	%	83			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	121			70-130	Pass	
TRH C6-C10	%	107			70-130	Pass	
TRH >C10-C16	%	85			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	79			70-130	Pass	
Acenaphthylene	%	83			70-130	Pass	
Anthracene	%	78			70-130	Pass	
Benz(a)anthracene	%	75			70-130	Pass	
Benzo(a)pyrene	%	110			70-130	Pass	
Benzo(b&j)fluoranthene	%	114			70-130	Pass	
Benzo(g.h.i)perylene	%	74			70-130	Pass	
Benzo(k)fluoranthene	%	114			70-130	Pass	
Chrysene	%	70			70-130	Pass	
Dibenz(a.h)anthracene	%	87			70-130	Pass	
Fluoranthene	%	105			70-130	Pass	
Fluorene	%	84			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	76			70-130	Pass	
Naphthalene	%	81			70-130	Pass	
Phenanthrene	%	83			70-130	Pass	
Pyrene	%	94			70-130	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	113			70-130	Pass	
Chloride	%	96			70-130	Pass	
Sulphate (as SO4)	%	91			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Heavy Metals							
Arsenic	%	93			80-120	Pass	
Arsenic	%	114			80-120	Pass	
Barium	%	87			80-120	Pass	
Beryllium	%	108			80-120	Pass	
Boron	%	106			80-120	Pass	
Cadmium	%	105			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	98			80-120	Pass	
Chromium	%	119			80-120	Pass	
Cobalt	%	101			80-120	Pass	
Cobalt	%	117			80-120	Pass	
Copper	%	91			80-120	Pass	
Copper	%	111			80-120	Pass	
Lead	%	103			80-120	Pass	
Manganese	%	93			80-120	Pass	
Manganese	%	114			80-120	Pass	
Mercury	%	113			75-125	Pass	
Mercury	%	112			75-125	Pass	
Molybdenum	%	94			80-120	Pass	
Nickel	%	88			80-120	Pass	
Nickel	%	109			80-120	Pass	
Selenium	%	107			80-120	Pass	
Selenium	%	117			80-120	Pass	
Silver	%	109			80-120	Pass	
Tin	%	90			80-120	Pass	
Zinc	%	87			80-120	Pass	
Zinc	%	108			80-120	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	109			70-130	Pass	
Toluene	%	124			70-130	Pass	
Ethylbenzene	%	105			70-130	Pass	
m&p-Xylenes	%	104			70-130	Pass	
Xylenes - Total*	%	106			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Bifenthrin	%	74			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	91			70-130	Pass	
LCS - % Recovery							
NEPM 2013 Acid Herbicides							
Picloram	%	90			70-130	Pass	
2.4-D	%	78			70-130	Pass	
2.4.5-T	%	73			70-130	Pass	
MCPA	%	73			70-130	Pass	
MCPB	%	75			70-130	Pass	
Mecoprop	%	82			70-130	Pass	
LCS - % Recovery							
NEPM 2013 Organochlorine Pesticides							
Endosulfan sulphate	%	88			70-130	Pass	
Mirex	%	81			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDD	%	105			70-130	Pass	
4.4'-DDE	%	95			70-130	Pass	
4.4'-DDT	%	84			70-130	Pass	
Aldrin	%	106			70-130	Pass	
Chlordanes - Total	%	121			70-130	Pass	
Dieldrin	%	82			70-130	Pass	
Endosulfan I	%	107			70-130	Pass	
Endosulfan II	%	94			70-130	Pass	
Endrin	%	81			70-130	Pass	
Heptachlor	%	74			70-130	Pass	
Hexachlorobenzene	%	96			70-130	Pass	
Methoxychlor	%	88			70-130	Pass	
LCS - % Recovery							
NEPM 2013 Phenols							
2-Methylphenol (o-Cresol)	%	66			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	86			30-130	Pass	
Pentachlorophenol	%	74			30-130	Pass	
Phenol	%	62			30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M20-Jl26922	NCP	%	81			70-130	Pass	
Acenaphthylene	M20-Jl26922	NCP	%	88			70-130	Pass	
Anthracene	M20-Jl26922	NCP	%	103			70-130	Pass	
Benz(a)anthracene	M20-Jl26922	NCP	%	89			70-130	Pass	
Benzo(a)pyrene	M20-Jl26922	NCP	%	112			70-130	Pass	
Benzo(b&j)fluoranthene	M20-Jl26922	NCP	%	91			70-130	Pass	
Benzo(g.h.i)perylene	M20-Jl26922	NCP	%	81			70-130	Pass	
Benzo(k)fluoranthene	M20-Jl26922	NCP	%	87			70-130	Pass	
Chrysene	M20-Jl26922	NCP	%	85			70-130	Pass	
Dibenz(a.h)anthracene	M20-Jl26922	NCP	%	75			70-130	Pass	
Fluoranthene	M20-Jl26922	NCP	%	88			70-130	Pass	
Fluorene	M20-Jl26922	NCP	%	95			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M20-Jl26922	NCP	%	76			70-130	Pass	
Naphthalene	M20-Jl26922	NCP	%	102			70-130	Pass	
Phenanthrene	M20-Jl26922	NCP	%	118			70-130	Pass	
Pyrene	M20-Jl26922	NCP	%	94			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	M20-Jl28232	CP	%	107			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	M20-Jl28232	CP	%	107			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Bifenthrin	M20-Jl27518	NCP	%	105			70-130	Pass	
Spike - % Recovery									
NEPM 2013 Acid Herbicides				Result 1					
Picloram	M20-Jl07139	NCP	%	88			70-130	Pass	
2.4-D	M20-Jl07139	NCP	%	76			70-130	Pass	
MCPA	M20-Jl07139	NCP	%	72			70-130	Pass	
MCPB	M20-Jl07139	NCP	%	69			70-130	Fail	Q08
Spike - % Recovery									
NEPM 2013 Organochlorine Pesticides				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	M20-Jl27518	NCP	%	85			70-130	Pass	
Mirex	M20-Jl27518	NCP	%	90			70-130	Pass	
4.4'-DDD	M20-Jl27518	NCP	%	101			70-130	Pass	
4.4'-DDE	M20-Jl27518	NCP	%	98			70-130	Pass	
4.4'-DDT	M20-Jl27518	NCP	%	84			70-130	Pass	
Aldrin	M20-Jl27518	NCP	%	95			70-130	Pass	
Chlordanes - Total	M20-Jl27518	NCP	%	83			70-130	Pass	
Dieldrin	M20-Jl27518	NCP	%	91			70-130	Pass	
Endosulfan I	M20-Jl27518	NCP	%	89			70-130	Pass	
Endosulfan II	M20-Jl27518	NCP	%	80			70-130	Pass	
Endrin	M20-Jl27518	NCP	%	84			70-130	Pass	
Heptachlor	M20-Jl27518	NCP	%	88			70-130	Pass	
Hexachlorobenzene	M20-Jl27518	NCP	%	87			70-130	Pass	
Methoxychlor	M20-Jl27518	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M20-Jl28236	CP	%	108			75-125	Pass	
Barium	M20-Jl28236	CP	%	81			75-125	Pass	
Beryllium	M20-Jl28236	CP	%	70			75-125	Fail	Q08
Boron	M20-Jl28236	CP	%	83			75-125	Pass	
Cadmium	M20-Jl28236	CP	%	104			75-125	Pass	
Chromium	M20-Jl28236	CP	%	117			75-125	Pass	
Cobalt	M20-Jl28236	CP	%	118			75-125	Pass	
Copper	M20-Jl28236	CP	%	101			75-125	Pass	
Lead	M20-Jl28236	CP	%	97			75-125	Pass	
Manganese	M20-Jl28236	CP	%	92			75-125	Pass	
Mercury	M20-Jl28236	CP	%	115			70-130	Pass	
Molybdenum	M20-Jl28236	CP	%	114			75-125	Pass	
Nickel	M20-Jl28236	CP	%	103			75-125	Pass	
Selenium	M20-Jl28236	CP	%	109			75-125	Pass	
Silver	M20-Jl28236	CP	%	106			75-125	Pass	
Tin	M20-Jl28236	CP	%	94			75-125	Pass	
Zinc	M20-Jl28236	CP	%	93			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	M20-Jl28238	CP	%	109			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M20-Jl28238	CP	%	108			70-130	Pass	
TRH C6-C10	M20-Jl28238	CP	%	111			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M20-Jl28238	CP	%	128			70-130	Pass	
Toluene	M20-Jl28238	CP	%	123			70-130	Pass	
Ethylbenzene	M20-Jl28238	CP	%	122			70-130	Pass	
m&p-Xylenes	M20-Jl28238	CP	%	119			70-130	Pass	
o-Xylene	M20-Jl28238	CP	%	126			70-130	Pass	
Xylenes - Total*	M20-Jl28238	CP	%	121			70-130	Pass	
Spike - % Recovery									
				Result 1					
Chloride	M20-Jl28818	NCP	%	88			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M20-Jl28247	CP	%	113			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Beryllium	M20-Jl28247	CP	%	89			75-125	Pass	
Boron	M20-Jl28247	CP	%	92			75-125	Pass	
Cadmium	M20-Jl28247	CP	%	110			75-125	Pass	
Chromium	M20-Jl28247	CP	%	116			75-125	Pass	
Cobalt	M20-Jl28247	CP	%	117			75-125	Pass	
Copper	M20-Jl28247	CP	%	133			75-125	Fail	Q08
Mercury	M20-Jl28247	CP	%	108			70-130	Pass	
Molybdenum	M20-Jl28247	CP	%	115			75-125	Pass	
Nickel	M20-Jl28247	CP	%	134			75-125	Fail	Q08
Selenium	M20-Jl28247	CP	%	102			75-125	Pass	
Silver	M20-Jl28247	CP	%	108			75-125	Pass	
Tin	M20-Jl28247	CP	%	105			75-125	Pass	
Zinc	M20-Jl28247	CP	%	106			75-125	Pass	
Spike - % Recovery									
				Result 1					
Chromium (hexavalent)	M20-Jl28248	CP	%	91			70-130	Pass	
Spike - % Recovery									
NEPM 2013 Phenols				Result 1					
2-Methylphenol (o-Cresol)	M20-Jl23973	NCP	%	73			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M20-Jl23973	NCP	%	97			30-130	Pass	
Pentachlorophenol	M20-Jl23973	NCP	%	79			30-130	Pass	
Phenol	M20-Jl23973	NCP	%	74			30-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	M20-Jl28253	CP	%	127			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	M20-Jl28253	CP	%	128			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M20-Jl28257	CP	%	86			75-125	Pass	
Barium	M20-Jl28257	CP	%	91			75-125	Pass	
Beryllium	M20-Jl28257	CP	%	98			75-125	Pass	
Boron	M20-Jl28257	CP	%	95			75-125	Pass	
Cadmium	M20-Jl28257	CP	%	101			75-125	Pass	
Chromium	M20-Jl28257	CP	%	89			75-125	Pass	
Cobalt	M20-Jl28257	CP	%	90			75-125	Pass	
Copper	M20-Jl28257	CP	%	82			75-125	Pass	
Lead	M20-Jl28257	CP	%	108			75-125	Pass	
Manganese	M20-Jl28257	CP	%	172			75-125	Fail	Q08
Mercury	M20-Jl28257	CP	%	113			70-130	Pass	
Molybdenum	M20-Jl28257	CP	%	87			75-125	Pass	
Nickel	M20-Jl28257	CP	%	83			75-125	Pass	
Selenium	M20-Jl28257	CP	%	80			75-125	Pass	
Silver	M20-Jl28257	CP	%	101			75-125	Pass	
Tin	M20-Jl28257	CP	%	82			75-125	Pass	
Zinc	M20-Jl28257	CP	%	113			75-125	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M20-Jl23836	NCP	%	84			70-130	Pass	
Aroclor-1260	M20-Jl23836	NCP	%	121			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	M20-Jl28263	CP	%	98			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	M20-JI28263	CP	%	91			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	B20-JI22429	NCP	pH Units	7.6	7.7	pass	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	M20-JI28231	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M20-JI28231	CP	mg/kg	93	95	3.0	30%	Pass	
TRH C29-C36	M20-JI28231	CP	mg/kg	150	140	9.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	M20-JI28231	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M20-JI28231	CP	mg/kg	200	190	5.0	30%	Pass	
TRH >C34-C40	M20-JI28231	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M20-JI28231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M20-JI28231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M20-JI28231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M20-JI28231	CP	mg/kg	0.6	0.6	<1	30%	Pass	
Benzo(a)pyrene	M20-JI28231	CP	mg/kg	1.0	1.0	3.0	30%	Pass	
Benzo(b&j)fluoranthene	M20-JI28231	CP	mg/kg	0.8	0.9	2.0	30%	Pass	
Benzo(g.h.i)perylene	M20-JI28231	CP	mg/kg	< 0.5	0.6	21	30%	Pass	
Benzo(k)fluoranthene	M20-JI28231	CP	mg/kg	0.8	1.0	15	30%	Pass	
Chrysene	M20-JI28231	CP	mg/kg	0.9	0.9	3.0	30%	Pass	
Dibenz(a.h)anthracene	M20-JI28231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M20-JI28231	CP	mg/kg	1.6	1.5	7.0	30%	Pass	
Fluorene	M20-JI28231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M20-JI28231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M20-JI28231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M20-JI28231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M20-JI28231	CP	mg/kg	1.8	1.8	3.0	30%	Pass	
Duplicate									
NEPM 2013 Phenols				Result 1	Result 2	RPD			
2-Methylphenol (o-Cresol)	M20-JI28231	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M20-JI28231	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Pentachlorophenol	M20-JI28231	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Phenol	M20-JI28231	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Bifenthrin	M20-JI27517	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Chlorpyrifos	M20-JI27517	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Triazines				Result 1	Result 2	RPD			
Atrazine	M20-JI27517	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
NEPM 2013 Acid Herbicides				Result 1	Result 2	RPD			
Picloram	M20-JI07138	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-D	M20-JI07138	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-T	M20-JI07138	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPA	M20-JI07138	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPB	M20-JI07138	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Mecoprop	M20-JI07138	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
NEPM 2013 Organochlorine Pesticides				Result 1	Result 2	RPD			
Endosulfan sulphate	M20-JI27517	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Mirex	M20-JI27517	NCP	mg/kg	< 0.01	< 0.01	<1	30%	Pass	
4.4'-DDD	M20-JI27517	NCP	mg/kg	0.09	0.08	19	30%	Pass	
4.4'-DDE	M20-JI27517	NCP	mg/kg	0.33	0.27	19	30%	Pass	
4.4'-DDT	M20-JI27517	NCP	mg/kg	0.86	0.56	43	30%	Fail	Q15
Aldrin	M20-JI27517	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlordanes - Total	M20-JI27517	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Dieldrin	M20-JI27517	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M20-JI27517	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M20-JI27517	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M20-JI27517	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M20-JI27517	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M20-JI27517	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M20-JI27517	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
NEPM 2013 Phenols				Result 1	Result 2	RPD			
2-Methylphenol (o-Cresol)	M20-JI27517	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M20-JI27517	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Pentachlorophenol	M20-JI27517	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Phenol	M20-JI27517	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M20-JI28235	CP	mg/kg	8.3	17	70	30%	Fail	Q15
Barium	M20-JI28235	CP	mg/kg	47	47	1.0	30%	Pass	
Beryllium	M20-JI28235	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M20-JI28235	CP	mg/kg	13	13	4.0	30%	Pass	
Cadmium	M20-JI28235	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M20-JI28235	CP	mg/kg	14	19	29	30%	Pass	
Cobalt	M20-JI28235	CP	mg/kg	< 5	5.0	20	30%	Pass	
Copper	M20-JI28235	CP	mg/kg	18	18	1.0	30%	Pass	
Lead	M20-JI28235	CP	mg/kg	140	130	7.0	30%	Pass	
Manganese	M20-JI28235	CP	mg/kg	98	100	5.0	30%	Pass	
Mercury	M20-JI28235	CP	mg/kg	0.2	0.2	14	30%	Pass	
Molybdenum	M20-JI28235	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M20-JI28235	CP	mg/kg	12	14	18	30%	Pass	
Selenium	M20-JI28235	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M20-JI28235	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M20-JI28235	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M20-JI28235	CP	mg/kg	140	170	15	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M20-JI28236	CP	mg/kg	8.6	8.7	1.0	30%	Pass	
Barium	M20-JI28236	CP	mg/kg	72	70	2.0	30%	Pass	
Beryllium	M20-JI28236	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M20-JI28236	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M20-JI28236	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Chromium	M20-JI28236	CP	mg/kg	16	16	<1	30%	Pass	
Cobalt	M20-JI28236	CP	mg/kg	6.4	6.3	1.0	30%	Pass	
Copper	M20-JI28236	CP	mg/kg	61	59	3.0	30%	Pass	
Lead	M20-JI28236	CP	mg/kg	250	250	1.0	30%	Pass	
Manganese	M20-JI28236	CP	mg/kg	110	110	<1	30%	Pass	
Mercury	M20-JI28236	CP	mg/kg	0.4	0.4	1.0	30%	Pass	
Molybdenum	M20-JI28236	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M20-JI28236	CP	mg/kg	22	22	2.0	30%	Pass	
Selenium	M20-JI28236	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M20-JI28236	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M20-JI28236	CP	mg/kg	34	34	<1	30%	Pass	
Zinc	M20-JI28236	CP	mg/kg	140	140	2.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M20-JI28237	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M20-JI28237	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M20-JI28237	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M20-JI28237	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M20-JI28237	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M20-JI28237	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M20-JI28237	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M20-JI28237	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M20-JI28237	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	M20-JI28240	CP	uS/cm	260	230	11	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	M20-JI28240	CP	pH Units	7.8	7.7	pass	30%	Pass	
Resistivity*	M20-JI28240	CP	ohm.m	39	43	11	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chloride	M20-JI28817	NCP	mg/kg	6300	8200	27	30%	Pass	
Sulphate (as SO4)	M20-JI30671	NCP	mg/kg	< 30	< 30	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	M20-JI28242	CP	mg/kg	22	21	4.0	30%	Pass	
TRH C15-C28	M20-JI28242	CP	mg/kg	320	330	3.0	30%	Pass	
TRH C29-C36	M20-JI28242	CP	mg/kg	270	250	10	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	M20-JI28242	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M20-JI28242	CP	mg/kg	470	450	3.0	30%	Pass	
TRH >C34-C40	M20-JI28242	CP	mg/kg	180	180	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M20-JI28242	CP	%	25	26	2.0	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M20-JI28246	CP	mg/kg	3.3	3.4	4.0	30%	Pass	
Barium	M20-JI28246	CP	mg/kg	18	14	24	30%	Pass	
Beryllium	M20-JI28246	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M20-JI28246	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M20-JI28246	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M20-JI28246	CP	mg/kg	6.1	7.8	25	30%	Pass	
Cobalt	M20-JI28246	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M20-JI28246	CP	mg/kg	8.9	8.8	1.0	30%	Pass	
Lead	M20-JI28246	CP	mg/kg	33	32	5.0	30%	Pass	
Manganese	M20-JI28246	CP	mg/kg	69	62	11	30%	Pass	
Mercury	M20-JI28246	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M20-JI28246	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M20-JI28246	CP	mg/kg	11	13	15	30%	Pass	
Selenium	M20-JI28246	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M20-JI28246	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M20-JI28246	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M20-JI28246	CP	mg/kg	49	52	7.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M20-JI28247	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M20-JI28247	CP	mg/kg	13	14	6.0	30%	Pass	
Barium	M20-JI28247	CP	mg/kg	210	220	4.0	30%	Pass	
Beryllium	M20-JI28247	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M20-JI28247	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M20-JI28247	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M20-JI28247	CP	mg/kg	11	12	6.0	30%	Pass	
Cobalt	M20-JI28247	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M20-JI28247	CP	mg/kg	25	26	4.0	30%	Pass	
Lead	M20-JI28247	CP	mg/kg	310	320	3.0	30%	Pass	
Manganese	M20-JI28247	CP	mg/kg	80	84	5.0	30%	Pass	
Mercury	M20-JI28247	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M20-JI28247	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M20-JI28247	CP	mg/kg	16	17	7.0	30%	Pass	
Selenium	M20-JI28247	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M20-JI28247	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M20-JI28247	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M20-JI28247	CP	mg/kg	70	72	3.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	M20-JI28252	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M20-JI28252	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M20-JI28252	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	M20-JI28252	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M20-JI28252	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M20-JI28252	CP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M20-JI28252	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M20-JI28252	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M20-JI28252	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M20-JI28252	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M20-JI28252	CP	mg/kg	0.5	< 0.5	14	30%	Pass	
Benzo(b&j)fluoranthene	M20-JI28252	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M20-JI28252	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M20-JI28252	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M20-JI28252	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M20-JI28252	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M20-JI28252	CP	mg/kg	< 0.5	0.5	5.0	30%	Pass	
Fluorene	M20-JI28252	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M20-JI28252	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M20-JI28252	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M20-JI28252	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M20-JI28252	CP	mg/kg	0.5	0.6	11	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M20-JI28252	CP	%	31	27	17	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	M20-JI28256	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M20-JI28256	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M20-JI28256	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M20-JI28256	CP	mg/kg	4.3	4.4	1.0	30%	Pass	
Barium	M20-JI28256	CP	mg/kg	15	16	4.0	30%	Pass	
Beryllium	M20-JI28256	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M20-JI28256	CP	mg/kg	15	15	2.0	30%	Pass	
Cadmium	M20-JI28256	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M20-JI28256	CP	mg/kg	7.8	7.9	2.0	30%	Pass	
Cobalt	M20-JI28256	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M20-JI28256	CP	mg/kg	10	10	2.0	30%	Pass	
Lead	M20-JI28256	CP	mg/kg	48	49	1.0	30%	Pass	
Manganese	M20-JI28256	CP	mg/kg	63	65	3.0	30%	Pass	
Mercury	M20-JI28256	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M20-JI28256	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M20-JI28256	CP	mg/kg	7.0	7.2	3.0	30%	Pass	
Selenium	M20-JI28256	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M20-JI28256	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M20-JI28256	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M20-JI28256	CP	mg/kg	68	68	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M20-JI28256	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M20-JI28256	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M20-JI28256	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M20-JI28256	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M20-JI28256	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M20-JI28256	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M20-JI28257	CP	mg/kg	5.7	5.9	3.0	30%	Pass	
Barium	M20-JI28257	CP	mg/kg	20	21	2.0	30%	Pass	
Beryllium	M20-JI28257	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M20-JI28257	CP	mg/kg	28	28	3.0	30%	Pass	
Cadmium	M20-JI28257	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M20-JI28257	CP	mg/kg	5.9	6.0	3.0	30%	Pass	
Cobalt	M20-JI28257	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M20-JI28257	CP	mg/kg	10	10	4.0	30%	Pass	
Lead	M20-JI28257	CP	mg/kg	37	38	3.0	30%	Pass	
Manganese	M20-JI28257	CP	mg/kg	120	130	4.0	30%	Pass	
Mercury	M20-JI28257	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M20-JI28257	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M20-JI28257	CP	mg/kg	6.1	6.2	2.0	30%	Pass	
Selenium	M20-JI28257	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M20-JI28257	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M20-JI28257	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M20-JI28257	CP	mg/kg	91	93	2.0	30%	Pass	
Duplicate									
NEPM 2013 Organochlorine Pesticides				Result 1	Result 2	RPD			
Toxaphene	S20-JI26021	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	M20-JI28262	CP	mg/kg	33	30	11	30%	Pass	
TRH C15-C28	M20-JI28262	CP	mg/kg	310	340	10	30%	Pass	
TRH C29-C36	M20-JI28262	CP	mg/kg	390	420	8.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	M20-JI28262	CP	mg/kg	70	62	12	30%	Pass	
TRH >C16-C34	M20-JI28262	CP	mg/kg	530	580	10	30%	Pass	
TRH >C34-C40	M20-JI28262	CP	mg/kg	260	310	17	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M20-JI28262	CP	%	28	28	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	M20-JI28263	CP	uS/cm	53	52	1.1	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	M20-JI28263	CP	pH Units	7.4	7.5	pass	30%	Pass	
Resistivity*	M20-JI28263	CP	ohm.m	190	190	1.1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M20-JI14825	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M20-JI14825	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M20-JI14825	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M20-JI14825	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M20-JI14825	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M20-JI14825	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M20-JI14825	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M20-JI14825	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M20-JI28272	CP	%	26	26	<1	30%	Pass	